

Committee: Committee of The Whole – Administration & Operations

Date: October 15, 2024

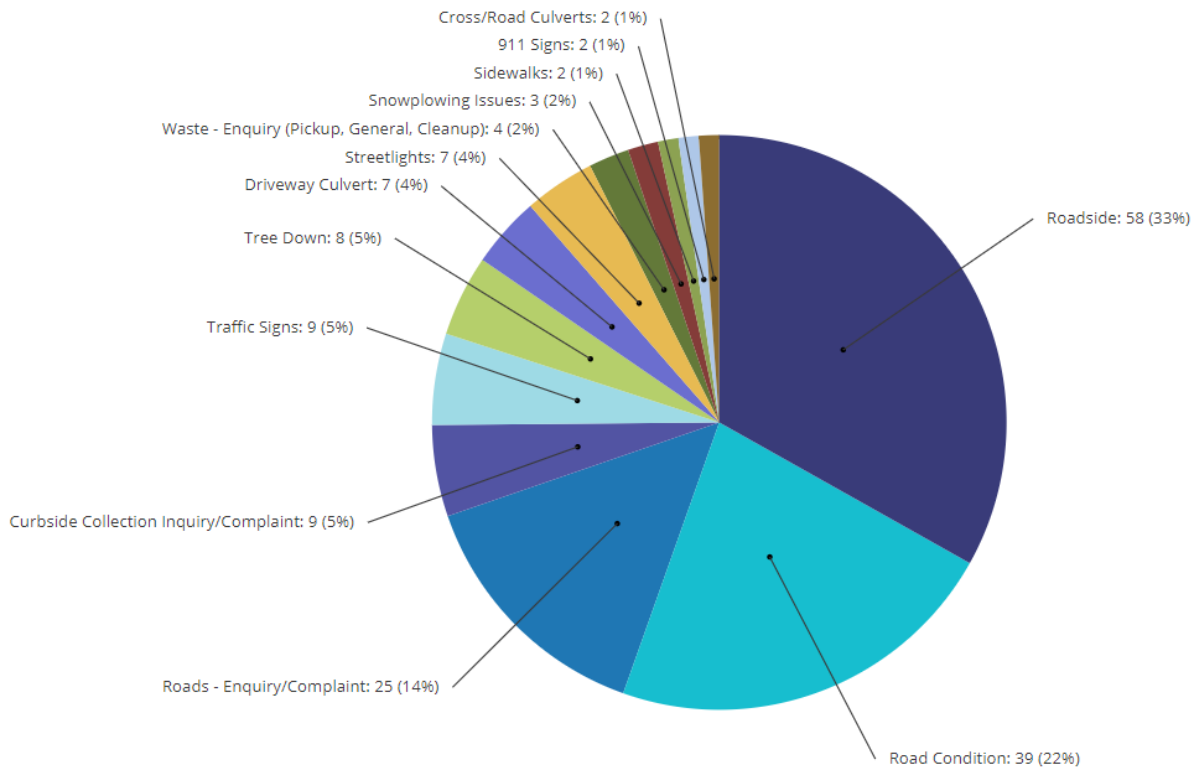
Department: Operations

Topic: 2024 Combined 2nd and 3rd Quarter Statistical Report

Background:

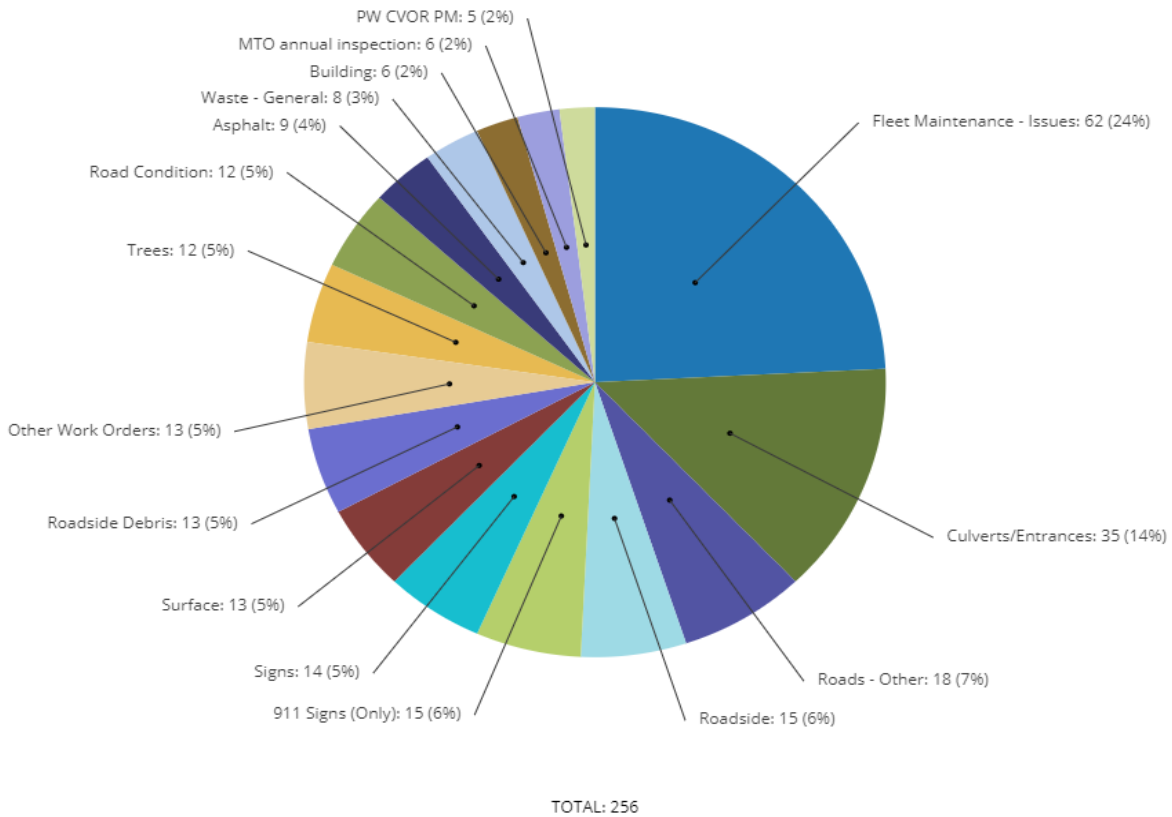
SECTION 1: Public Works

There were 175 service requests created during quarter 2 and 3. The requests are categorized based on type in the below pie chart.



TOTAL: 175

There were 256 work orders created during quarter 2 and 3. The orders are categorized based on type in the below pie chart.



SECTION 2: Waste Disposal

- 1,331 vehicles attended the site over the 26 Saturdays in quarter 2 and 3
- Punch card sales through website: \$ 365.00
- Punch card sales through office: \$1,484.00
- Punch card sales through Cardinal Library: \$ 790.00
- Punch Card sales through Burchell's \$7,209.00
- Total punch card sales for Quarter 2 and 3: \$ 9,848.00

	Curbside Collection - HGC		Transfer Station – Limerick Env.
Month	Solid Waste (t)	Recycling (t)	Transported offsite (t)
April	86.29	32.53	17.77
May	77.63	34.51	14.13
June	78.44	31.70	16.20
July	87.66	34.87	16.77
August	79.44	32.51	17.92
September	91.44	31.18	17.27
Total	500.90	197.30	100.06

SECTION 3: Environmental Services

2nd and 3rd Quarter Cardinal Water Treatment Plant Flow Summary				
Month	Monthly Flow (m³)	Minimum Daily Flow (m³)	Maximum Daily Flow (m³)	Average Daily Flow (m³)
April	11136	253	607	371
May	13249	262	653	427
June	12823	309	641	427
July	12808	316	502	413
August	12211	310	531	394
September	13718	251	750	457

2nd Quarter Summary of Operational Parameters – Cardinal WTP									
	UV	Filter 1A	Filter 1B	Filter 2A	Filter 2B	pH	Pressure	Raw Cl2	Post Chlorine
Average	50.44	0.03	0.03	0.10	0.03	8.03	69.25	1.59	2.52
Unit	mJ/cm²	NTU	NTU	NTU	NTU		PSI	mg/L	mg/L
Compliance	40	1	1	1	1	6.5-8.5	>20		>0.20

3rd Quarter Summary of Operational Parameters – Cardinal WTP									
	UV	Filter 1A	Filter 1B	Filter 2A	Filter 2B	pH	Pressure	Raw Cl2	Post Chlorine
Average	50.92	0.03	0.03	0.11	0.03	8.17	69.21	1.81	2.40
Unit	mJ/cm²	NTU	NTU	NTU	NTU		PSI	mg/L	mg/L
Compliance	40	1	1	1	1	6.5-8.5	>20		>0.20

2nd and 3rd Quarter Microbiological Testing for the Cardinal Water System				
	Number of Samples	Total Coliform	<i>E. coli</i>	HPC (min-max)
April-September	104	0	0	<2-6
Compliance for TC/EC is zero. HPC guideline is less than 500.				

2nd and 3rd Quarter Microbiological Testing- Industrial Park

	Number of Samples	Total Coliform	<i>E. coli</i>	HPC (min-max)
April - September	26	0	0	<2-2
Compliance for TC/EC is zero. HPC guideline is less than 500.				

Description	Prysmian Chlorine Residual	Greenfield Chlorine Residual	Pressure (PSI)
2 nd Quarter Average	1.01	0.77	74
Units	mg/L	mg/L	PSI
Compliance	>0.05	>0.05	>20

Description	Prysmian Chlorine Residual	Greenfield Chlorine Residual	Pressure (PSI)
3 rd Quarter Average	0.77	0.66	73.8
Units	mg/L	mg/L	PSI
Compliance	>0.05	>0.05	>20

2nd and 3rd Quarter Report for Windmill Pumping Station				
Month	Total Flow (m³)	Minimum Daily Flow (m³)	Maximum Daily Flow (m³)	Average Daily Flow (m³)
April	66252	*282	2845	2208
May	83154	2381	3074	2682
June	82446	1900	3246	2748
July	91102	2170	3138	2939
August	88634	2073	3189	2859
September	67654	**519	3146	2255

* Capital Controls addressed SCADA flow totalizer issue.

** Reduced water consumption due to semi-annual shut down.

2nd and 3rd Quarter Report for Spencerville Lagoons				
Month	Total Flow (m³)	Minimum Daily Flow (m³)	Maximum Daily Flow (m³)	Average Daily Flow (m³)
April	5709	113	317	190
May	3922	107	139	127
June	4414	103	209	147
July	4462	100	403	144
August	3873	90	150	125
September	2819	78	126	94

2nd and 3rd Quarter Report for Cardinal WWTP

Month	Total Flow (m³)	Minimum Daily Flow (m³)	Maximum Daily Flow (m³)	Average Daily Flow (m³)
April	47823	922	2548	1594
May	28000	732	1108	903
June	24402	667	1210	813
July	31012	781	1604	1000
August	54045	764	3144	1743
September	32053	678	1715	1068

2nd Quarter April-June	BOD (mg/L)	Suspended Solids (mg/L)	Total Phosphorus (mg/L)	Ammonia (mg/L)	<i>E.Coli</i>
Average	3.1	3.4	0.06	0.19	3.07
Units	mg/L	mg/L	mg/L	mg/L	CFU
Compliance	25	25	1		
Objective	<15	<15	< 1	<4	<200

3rd Quarter July-September	BOD (mg/L)	Suspended Solids (mg/L)	Total Phosphorus (mg/L)	Ammonia (mg/L)	<i>E.Coli</i>
Average	3.6	5.0	0.12	0.23	3.4
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	95%	96%	96%	99%
May	96%	98%	97%	99%
June	98%	98%	98%	98%
July	98%	97%	97%	99%
August	94%	87%	89%	96%
September	96%	96%	95%	99%



Director of Operations