CITY OF ENDERBY WASTEWATER SYSTEM

ANNUAL REPORT 2025

April 22, 2026

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EXECUTIVE SUMMARY

The Wastewater Annual Report is produced pursuant to Section 5.3 of Waste Discharge Permit 203, issued by the Ministry of Environment to the City of Enderby. The City of Enderby possesses a Class I Wastewater Collections System and a Class III Wastewater Reclamation Facility (WWRP). It provides primary and secondary treatment, as well as disinfection, prior to discharge to the receiving environment.

The average daily flow for 2025 was 961 m^3 per day, which is a slight increase from 932 m^3 per day in 2024. Stable flows from year to year can be attributed to low inflow and infiltration (I&I) in both years. The maximum daily flow was 1,673 m^3 and occurred on March 14, 2025.

There were 0 days in 2025 when the WWRP was over its permitted discharge of 3,400 m^3 per day. There were no spills or overflow events from either the WWRP or the collection system in 2024.

The City of Enderby has operators certified to meet the legislative requirements for oversight of the WWRP and the collection system.

OVERVIEW

The City of Enderby is in the North Okanagan region of British Columbia. It is 4.26 km^2 in size and has a population of 3,028 persons (2021 Census).

The City of Enderby possesses a Class I Wastewater Collection System and a Class III Wastewater Reclamation Facility (WWRP).

The WWRP was built in 1967 and services the population of the City of Enderby as well as several Splatsin residential and commercial parcels. The WWRP provides primary and secondary treatment, as well as disinfection, prior to discharge into the receiving environment. The receiving environment is the Shuswap River. The discharge is located at 50°33'47.7"N 119°08'18.0"W.

The City of Enderby Public Works staff operates the WWRP. In 2003, the facility was upgraded with the addition of UV disinfection, which enabled the City to shift towards only using chlorine disinfection when it was necessary to supplement UV. In 2009, the WWRP commissioned a new clarifier. In 2011, the WWRP had a centrifuge installed to improve sludge handling.

The collection system consists of 23,750 meters of pipe and 8 lift stations located at: Peacher Crescent; Red Rock Crescent; Meadow Crescent; Brickyard Road; Kate Street; Kildonan Avenue; Riverdale Drive; and McGowan Street.

The collection system is operating reasonably well considering its age. The City has an asset management program in place and is steadily replacing its aging collection system.

The City of Enderby is compliant with the federal Effluent Regulatory Reporting requirements, which includes the submission of quarterly Monitoring Reports.

PERMIT

Waste Discharge Permit 203 was issued on October 4, 1967. It was most recently amended on May 13, 2015. In accordance with Permit 203, the City of Enderby is authorized to discharge effluent to the Shuswap River from a municipal sewage plant subject to the following conditions:

1. The maximum authorized rate of discharge is 3,400 m^3 per day.

2. The characteristics of the effluent shall be equivalent or better than:

    a. 5-day Biochemical Oxygen Demand of 45 mg/L;
    b. Total Suspended Solids of 45 mg/L;
    c. When chlorine is used, a total chlorine residual of between 0.5 mg/L and 1.0 mg/L and not less than one hour's contact time at average flow rates must be achieved; and
    d. When chlorine is used, it must be dechlorinated prior to discharge to reduce the total chlorine residual below detectable limits.

3. A monthly sample that is analysed for:
    a. Total Suspended Solids;
    b. Biochemical Oxygen Demand;
    c. Ammonia;
    d. Total Nitrogen;
    e. Total Phosphorus and Orthophosphate;
    f. pH;
    g. Temperature.

4. A bi-monthly sample for E. Coli;

5. A quarterly sample of the receiving environment upstream and downstream of the outfall for ammonia, total nitrogen, total phosphorous, orthophosphate, and E. Coli;

6. A bi-annual sample of the compostable sludge.

Under the permit, the WWRP only needs to use chlorine when its UV system cannot disinfect adequately; this is typically the result of high flows or high turbidity.

The permit also specifies spill reporting requirements and response procedures in the event of compromised operations.

OPERATORS

During 2024, the City of Enderby had the following Public Works employees with EOCP certifications:

Operator	Position	Certification
Damon Kipp	Systems Operator III	WWT III
Ray Brown	Lead Hand II	WWC I, WWT I
Mervin Arvay	Utility II	WWC II
WWT – Wastewater Treatment, WWC – Wastewater Collection		

MAJOR EVENTS

EVENTS

The Salsnes filter blower failed on August 21, 2025. Due to frequent issues with the current blower, it was decided to plumb in the oxidation ditch back-up blower on August 27, 2025 while a permanent replacement is obtained. The Salsnes filter provides primary screening of rags, cloths, and larger solids that can cause equipment issues downstream. A back-up filter is planned for installation in 2026.

EXCESS DISCHARGES

There were 0 days in 2025 when the WWRP was over its permitted discharge of 3,400 m^3 per day.

OVERFLOWS

There were no overflow or spill events at the WWRP or from the collection system.

INFLOW AND INFILTRATION

Inflow & Infiltration (I/I) refers to water entering the collection system through defects associated with design, degradation of the system, and unlawful connections or discharges. Measures are being undertaken to reduce I/I where possible, primarily through the replacement of aging collection system infrastructure, the separation of combined sewers where they exist, and taking additional steps to slow the rate of infiltration when overland flooding is occurring.

The recalibration of an influent flow meter in 2023 revealed that influent flows to the WWRP were substantially overstated. Based on corrected data, a new Inflow and Infiltration Assessment was completed in January 2026. In the Assessment, seasonal average daily flows were evaluated to identify sustained infiltration and benchmark system performance against commonly accepted wastewater engineering guidance.

The Assessment found that:

- Groundwater infiltration is not a dominant contributor to average system flows;
- The collection system is not infiltration-driven from a capacity or treatment perspective; and
- Any infiltration present is likely localized and minor relative to total system demand.

The Assessment concluded that:

1. No measurable system-wide groundwater infiltration was identified;
2. Normalized infiltration rates are well below commonly cited benchmark thresholds;
3. The sanitary sewer system is not infiltration-dominated under normal operating conditions; and
4. Targeted, condition-based management is appropriate in lieu of broad I&I rehabilitation.

INFRASTRUCTURE VALUE, DEFICIT AND RENEWAL

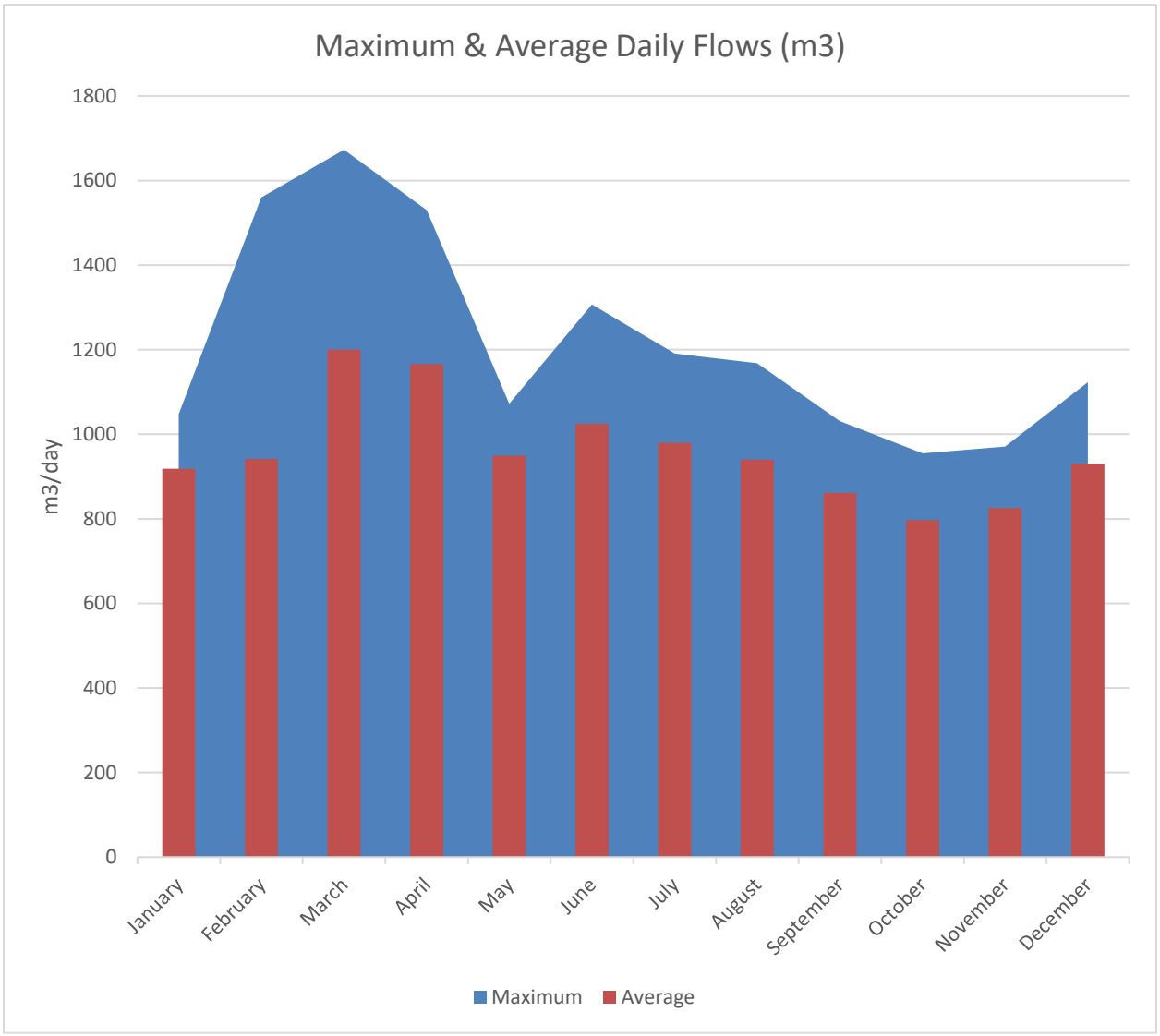
The City of Enderby's wastewater system, inclusive of treatment and collection, has a replacement value of $28,990,588. The total loss in value to the system, representing the City's infrastructure deficit is $17,378,972. In 2025, the City contributed $249,400 to its sewer reserve fund and withdrew $151,037. After adding interest earned, the balance as of December 31, 2025 was $1,286,237.

The anticipated 2026 contribution to sewer reserves is $256,100.

In order to deal with its infrastructure deficit, the City has committed to increasing its sewer asset management revenues by 1% per year. While this amount represents a relatively small proportion of the shortfall, the commitment to infrastructure renewal and asset management positions the City to partner with senior government on future grants.

FLOW DATA MONTHLY AND HISTORICAL TRENDS

The below chart shows monthly flow data for 2025, as measured at the WWRP discharge:



The historical average and maximum daily flows are as follows:

Year	Average Daily Flow (m3)	Maximum Daily Flow (m3)
2025	961	1673
2024	932	1328
2023	1436 (973 calculated)	3243 (1946 calculated)
2022	2081	4025
2021	1720	2689
2020	2236	4371
2019	1722	2928
2018	2147	5321
2017	1992	5216
2016	1661	2477
2015	1855	5368
2014	2033	3683

Values with a gray background are known to overstate flows due to the recalibration of the flow meter discussed above and should only be used to understand year-over-year variations in relative flow.

COMPOSTABLE SLUDGE VOLUME AND LABORATORY ANALYTICS

The total mass of compostable sludge in 2025 was approximately 249 tonnes. This was slightly more than the 224 tonnes from the previous year.

All compostable sludge must not exceed Class B Biosolids criteria under the Organic Matter Recycling Regulation (OMRR). Compostable sludge is tested twice per year to verify its quality.

Parameter (mg/kg)	January 15	July 16	OMRR
Arsenic	1.37	0.71	75
Cadmium	0.711	0.57	20
Chromium	15.1	7.6	1060
Cobalt	3.09	1.43	150
Copper	261	185	2200
Lead	7.93	2.95	500
Mercury	0.403	0.336	15
Molybdenum	5.92	2.17	20
Nickel	15.7	9.15	180
Selenium	3.68	2.08	14
Zinc	361	296	1850

January 2, 2025	Nitrate (as N)	0.027
January 2, 2025	Nitrite (as N)	<0.010
January 2, 2025	Ammonia, Un-Ionized (as N)	1.11
January 2, 2025	Nitrate+Nitrite (as N)	0.0268
January 2, 2025	Nitrogen, Total	47.8
January 2, 2025	Nitrogen, Organic	11.8
January 2, 2025	Temperature, at pH	22.4
January 2, 2025	Alkalinity, Total (as CaCO3)	324
January 2, 2025	Alkalinity, Phenolphthalein (as CaCO3)	<1.0
January 2, 2025	Alkalinity, Bicarbonate (as CaCO3)	324
January 2, 2025	Alkalinity, Carbonate (as CaCO3)	<1.0
January 2, 2025	Alkalinity, Hydroxide (as CaCO3)	<1.0
January 2, 2025	Ammonia, Total (as N)	36
January 2, 2025	BOD, 5-day	229
January 2, 2025	Chemical Oxygen Demand	249
January 2, 2025	Nitrogen, Total Kjeldahl	47.8
January 2, 2025	Phosphorus, Total Dissolved	3.67
January 2, 2025	Phosphorus, Dissolved Reactive	3.21
January 2, 2025	Solids, Total Suspended	166
January 2, 2025	Solids, Volatile Suspended	164
January 2, 2025	pH	7.83
February 5, 2025	Nitrate (as N)	0.066
February 5, 2025	Nitrite (as N)	<0.010
February 5, 2025	Ammonia, Un-Ionized (as N)	0.942
February 5, 2025	Nitrate+Nitrite (as N)	0.0659
February 5, 2025	Nitrogen, Total	33.4
February 5, 2025	Nitrogen, Organic	8.2
February 5, 2025	Temperature, at pH	22.3
February 5, 2025	Alkalinity, Total (as CaCO3)	250
February 5, 2025	Alkalinity, Phenolphthalein (as CaCO3)	<1.0
February 5, 2025	Alkalinity, Bicarbonate (as CaCO3)	250
February 5, 2025	Alkalinity, Carbonate (as CaCO3)	<1.0
February 5, 2025	Alkalinity, Hydroxide (as CaCO3)	<1.0
February 5, 2025	Ammonia, Total (as N)	25.2
February 5, 2025	BOD, 5-day	228
February 5, 2025	Chemical Oxygen Demand	188
February 5, 2025	Nitrogen, Total Kjeldahl	33.4
February 5, 2025	Phosphorus, Total (as P)	3.2
February 5, 2025	Phosphorus, Total Dissolved	3.59
February 5, 2025	Phosphorus, Dissolved Reactive	2.65
February 5, 2025	Solids, Total Suspended	298
February 5, 2025	Solids, Volatile Suspended	218
February 5, 2025	pH	7.92
March 5, 2025	Nitrate (as N)	<0.010

March 5, 2025	Nitrite (as N)	<0.010
March 5, 2025	Ammonia, Un-Ionized (as N)	1.43
March 5, 2025	Nitrate+Nitrite (as N)	<0.0100
March 5, 2025	Nitrogen, Total	54.1
March 5, 2025	Temperature, at pH	22.7
March 5, 2025	Alkalinity, Total (as CaCO3)	319
March 5, 2025	Alkalinity, Phenolphthalein (as CaCO3)	<1.0
March 5, 2025	Alkalinity, Bicarbonate (as CaCO3)	319
March 5, 2025	Alkalinity, Carbonate (as CaCO3)	<1.0
March 5, 2025	Alkalinity, Hydroxide (as CaCO3)	<1.0
March 5, 2025	Ammonia, Total (as N)	31.1
March 5, 2025	BOD, 5-day	279
March 5, 2025	Chemical Oxygen Demand	363
March 5, 2025	Nitrogen, Total Kjeldahl	54.1
March 5, 2025	Phosphorus, Total (as P)	8.27
March 5, 2025	Phosphorus, Total Dissolved	5.88
March 5, 2025	Phosphorus, Dissolved Reactive	3.26
March 5, 2025	Solids, Total Suspended	215
March 5, 2025	Solids, Volatile Suspended	143
March 5, 2025	pH	8
April 3, 2025	Nitrate (as N)	0.119
April 3, 2025	Nitrite (as N)	0.259
April 3, 2025	Ammonia, Un-Ionized (as N)	0.784
April 3, 2025	Nitrate+Nitrite (as N)	0.378
April 3, 2025	Nitrogen, Total	29.3
April 3, 2025	Nitrogen, Organic	12
April 3, 2025	Temperature, at pH	22.9
April 3, 2025	Alkalinity, Total (as CaCO3)	353
April 3, 2025	Alkalinity, Phenolphthalein (as CaCO3)	<1.0
April 3, 2025	Alkalinity, Bicarbonate (as CaCO3)	353
April 3, 2025	Alkalinity, Carbonate (as CaCO3)	<1.0
April 3, 2025	Alkalinity, Hydroxide (as CaCO3)	<1.0
April 3, 2025	Ammonia, Total (as N)	16.9
April 3, 2025	BOD, 5-day	92.7
April 3, 2025	Chemical Oxygen Demand	150
April 3, 2025	Nitrogen, Total Kjeldahl	28.9
April 3, 2025	Phosphorus, Total Dissolved	1.94
April 3, 2025	Phosphorus, Dissolved Reactive	1.4
April 3, 2025	Solids, Total Suspended	64
April 3, 2025	Solids, Volatile Suspended	62
April 3, 2025	pH	8
May 7, 2025	Nitrate (as N)	<0.010
May 7, 2025	Nitrite (as N)	<0.010
May 7, 2025	Ammonia, Un-Ionized (as N)	1.26
May 7, 2025	Nitrate+Nitrite (as N)	<0.0100
May 7, 2025	Nitrogen, Total	56.7

May 7, 2025	Nitrogen, Organic	17.9
May 7, 2025	Temperature, at pH	22.2
May 7, 2025	Alkalinity, Total (as CaCO3)	334
May 7, 2025	Alkalinity, Phenolphthalein (as CaCO3)	<1.0
May 7, 2025	Alkalinity, Bicarbonate (as CaCO3)	334
May 7, 2025	Alkalinity, Carbonate (as CaCO3)	<1.0
May 7, 2025	Alkalinity, Hydroxide (as CaCO3)	<1.0
May 7, 2025	Ammonia, Total (as N)	38.9
May 7, 2025	BOD, 5-day	302
May 7, 2025	Chemical Oxygen Demand	416
May 7, 2025	Nitrogen, Total Kjeldahl	56.7
May 7, 2025	Phosphorus, Total (as P)	7.12
May 7, 2025	Phosphorus, Total Dissolved	4.31
May 7, 2025	Phosphorus, Dissolved Reactive	2.78
May 7, 2025	Solids, Total Suspended	228
May 7, 2025	Solids, Volatile Suspended	202
May 7, 2025	pH	7.86
June 4, 2025	Nitrate (as N)	<0.010
June 4, 2025	Nitrite (as N)	<0.010
June 4, 2025	Ammonia, Un-Ionized (as N)	1.34
June 4, 2025	Nitrate+Nitrite (as N)	<0.0100
June 4, 2025	Nitrogen, Total	64.5
June 4, 2025	Temperature, at pH	21.5
June 4, 2025	Alkalinity, Total (as CaCO3)	332
June 4, 2025	Alkalinity, Phenolphthalein (as CaCO3)	<1.0
June 4, 2025	Alkalinity, Bicarbonate (as CaCO3)	332
June 4, 2025	Alkalinity, Carbonate (as CaCO3)	<1.0
June 4, 2025	Alkalinity, Hydroxide (as CaCO3)	<1.0
June 4, 2025	Ammonia, Total (as N)	46.4
June 4, 2025	BOD, 5-day	269
June 4, 2025	Chemical Oxygen Demand	434
June 4, 2025	Nitrogen, Total Kjeldahl	64.5
June 4, 2025	Phosphorus, Total (as P)	7.44
June 4, 2025	Phosphorus, Total Dissolved	4.59
June 4, 2025	Phosphorus, Dissolved Reactive	4.54
June 4, 2025	Solids, Total Suspended	282
June 4, 2025	Solids, Volatile Suspended	226
June 4, 2025	pH	7.83
July 2, 2025	Nitrate (as N)	<0.010
July 2, 2025	Nitrite (as N)	<0.010
July 2, 2025	Ammonia, Un-Ionized (as N)	0.644
July 2, 2025	Nitrate+Nitrite (as N)	<0.0100
July 2, 2025	Nitrogen, Total	81.6
July 2, 2025	Nitrogen, Organic	24.8
July 2, 2025	Temperature, at pH	20.4
July 2, 2025	Alkalinity, Total (as CaCO3)	282

July 2, 2025	Alkalinity, Phenolphthalein (as CaCO3)	<1.0
July 2, 2025	Alkalinity, Bicarbonate (as CaCO3)	282
July 2, 2025	Alkalinity, Carbonate (as CaCO3)	<1.0
July 2, 2025	Alkalinity, Hydroxide (as CaCO3)	<1.0
July 2, 2025	Ammonia, Total (as N)	56.8
July 2, 2025	BOD, 5-day	338
July 2, 2025	Chemical Oxygen Demand	681
July 2, 2025	Nitrogen, Total Kjeldahl	81.6
July 2, 2025	Phosphorus, Total (as P)	10.5
July 2, 2025	Phosphorus, Total Dissolved	5.62
July 2, 2025	Phosphorus, Dissolved Reactive	5.53
July 2, 2025	Solids, Total Suspended	300
July 2, 2025	Solids, Volatile Suspended	308
July 2, 2025	pH	7.45
August 6, 2025	Nitrate (as N)	<0.010
August 6, 2025	Nitrite (as N)	<0.010
August 6, 2025	Ammonia, Un-Ionized (as N)	1.18
August 6, 2025	Nitrate+Nitrite (as N)	<0.0100
August 6, 2025	Nitrogen, Total	67.3
August 6, 2025	Nitrogen, Organic	18.7
August 6, 2025	Temperature, at pH	22.5
August 6, 2025	Alkalinity, Total (as CaCO3)	278
August 6, 2025	Alkalinity, Phenolphthalein (as CaCO3)	<1.0
August 6, 2025	Alkalinity, Bicarbonate (as CaCO3)	278
August 6, 2025	Alkalinity, Carbonate (as CaCO3)	<1.0
August 6, 2025	Alkalinity, Hydroxide (as CaCO3)	<1.0
August 6, 2025	Ammonia, Total (as N)	48.6
August 6, 2025	BOD, 5-day	300
August 6, 2025	Chemical Oxygen Demand	407
August 6, 2025	Nitrogen, Total Kjeldahl	67.3
August 6, 2025	Phosphorus, Total (as P)	8.8
August 6, 2025	Phosphorus, Total Dissolved	5.38
August 6, 2025	Phosphorus, Dissolved Reactive	5.15
August 6, 2025	Solids, Total Suspended	238
August 6, 2025	Solids, Volatile Suspended	220
August 6, 2025	pH	7.72
September 3, 2025	Nitrate (as N)	<0.010
September 3, 2025	Nitrite (as N)	<0.010
September 3, 2025	Ammonia, Un-Ionized (as N)	1.16
September 3, 2025	Nitrate+Nitrite (as N)	<0.0100
September 3, 2025	Nitrogen, Total	54.1
September 3, 2025	Nitrogen, Organic	4.98
September 3, 2025	Temperature, at pH	25.6
September 3, 2025	Alkalinity, Total (as CaCO3)	289
September 3, 2025	Alkalinity, Phenolphthalein (as CaCO3)	<1.0
September 3, 2025	Alkalinity, Bicarbonate (as CaCO3)	289

September 3, 2025	Alkalinity, Carbonate (as CaCO3)	<1.0
September 3, 2025	Alkalinity, Hydroxide (as CaCO3)	<1.0
September 3, 2025	Ammonia, Total (as N)	49.1
September 3, 2025	BOD, 5-day	207
September 3, 2025	Chemical Oxygen Demand	389
September 3, 2025	Nitrogen, Total Kjeldahl	54.1
September 3, 2025	Phosphorus, Total Dissolved	5.57
September 3, 2025	Phosphorus, Dissolved Reactive	4.12
September 3, 2025	Solids, Total Suspended	170
September 3, 2025	Solids, Volatile Suspended	154
September 3, 2025	pH	7.61
October 1, 2025	Nitrate (as N)	<0.010
October 1, 2025	Nitrite (as N)	<0.010
October 1, 2025	Ammonia, Un-Ionized (as N)	1.21
October 1, 2025	Nitrate+Nitrite (as N)	<0.0100
October 1, 2025	Nitrogen, Total	69.8
October 1, 2025	Nitrogen, Organic	17.4
October 1, 2025	Temperature, at pH	22.4
October 1, 2025	Alkalinity, Total (as CaCO3)	288
October 1, 2025	Alkalinity, Phenolphthalein (as CaCO3)	<1.0
October 1, 2025	Alkalinity, Bicarbonate (as CaCO3)	288
October 1, 2025	Alkalinity, Carbonate (as CaCO3)	<1.0
October 1, 2025	Alkalinity, Hydroxide (as CaCO3)	<1.0
October 1, 2025	Ammonia, Total (as N)	52.4
October 1, 2025	BOD, 5-day	278
October 1, 2025	Chemical Oxygen Demand	520
October 1, 2025	Nitrogen, Total Kjeldahl	69.8
October 1, 2025	Phosphorus, Total Dissolved	4.86
October 1, 2025	Phosphorus, Dissolved Reactive	4.46
October 1, 2025	Solids, Total Suspended	216
October 1, 2025	Solids, Volatile Suspended	202
October 1, 2025	pH	7.7
November 6, 2025	Nitrate (as N)	<0.010
November 6, 2025	Nitrite (as N)	<0.010
November 6, 2025	Ammonia, Un-Ionized (as N)	0.715
November 6, 2025	Nitrate+Nitrite (as N)	<0.0100
November 6, 2025	Nitrogen, Total	76.7
November 6, 2025	Nitrogen, Organic	22.7
November 6, 2025	Temperature, at pH	20
November 6, 2025	Alkalinity, Total (as CaCO3)	331
November 6, 2025	Alkalinity, Phenolphthalein (as CaCO3)	<1.0
November 6, 2025	Alkalinity, Bicarbonate (as CaCO3)	331
November 6, 2025	Alkalinity, Carbonate (as CaCO3)	<1.0
November 6, 2025	Alkalinity, Hydroxide (as CaCO3)	<1.0
November 6, 2025	Ammonia, Total (as N)	54.1
November 6, 2025	BOD, 5-day	383

November 6, 2025	Chemical Oxygen Demand	550
November 6, 2025	Nitrogen, Total Kjeldahl	76.7
November 6, 2025	Phosphorus, Total Dissolved	5.58
November 6, 2025	Phosphorus, Dissolved Reactive	5.46
November 6, 2025	Solids, Total Suspended	179
November 6, 2025	Solids, Volatile Suspended	153
November 6, 2025	pH	7.53
December 3, 2025	Nitrate (as N)	<0.010
December 3, 2025	Nitrite (as N)	<0.010
December 3, 2025	Ammonia, Un-Ionized (as N)	0.951
December 3, 2025	Nitrate+Nitrite (as N)	<0.0100
December 3, 2025	Nitrogen, Total	73.5
December 3, 2025	Nitrogen, Organic	17.6
December 3, 2025	Temperature, at pH	19.4
December 3, 2025	Alkalinity, Total (as CaCO3)	332
December 3, 2025	Alkalinity, Phenolphthalein (as CaCO3)	<1.0
December 3, 2025	Alkalinity, Bicarbonate (as CaCO3)	332
December 3, 2025	Alkalinity, Carbonate (as CaCO3)	<1.0
December 3, 2025	Alkalinity, Hydroxide (as CaCO3)	<1.0
December 3, 2025	Ammonia, Total (as N)	56
December 3, 2025	BOD, 5-day	470
December 3, 2025	Chemical Oxygen Demand	529
December 3, 2025	Nitrogen, Total Kjeldahl	73.5
December 3, 2025	Phosphorus, Total Dissolved	5.15
December 3, 2025	Phosphorus, Dissolved Reactive	4.62
December 3, 2025	Solids, Total Suspended	362
December 3, 2025	Solids, Volatile Suspended	274
December 3, 2025	pH	7.66

January 2, 2025	Nitrate (as N)	5.84
January 2, 2025	Nitrite (as N)	0.18
January 2, 2025	Ammonia, Un-Ionized (as N)	0.024
January 2, 2025	Nitrate+Nitrite (as N)	6.02
January 2, 2025	Nitrogen, Total	8.2
January 2, 2025	Nitrogen, Organic	1.2
January 2, 2025	UV Transmittance @ 254nm	75.2
January 2, 2025	Temperature, at pH	20.9
January 2, 2025	Alkalinity, Total (as CaCO3)	148
January 2, 2025	Alkalinity, Phenolphthalein (as CaCO3)	<1.0
January 2, 2025	Alkalinity, Bicarbonate (as CaCO3)	148
January 2, 2025	Alkalinity, Carbonate (as CaCO3)	<1.0
January 2, 2025	Alkalinity, Hydroxide (as CaCO3)	<1.0
January 2, 2025	Ammonia, Total (as N)	0.98
January 2, 2025	BOD, 5-day	6.7
January 2, 2025	BOD, 5-day Carbonaceous	<7.1
January 2, 2025	Chemical Oxygen Demand	<20
January 2, 2025	Nitrogen, Total Kjeldahl	2.18
January 2, 2025	Phosphorus, Total Dissolved	2.75
January 2, 2025	Phosphorus, Dissolved Reactive	2.34
January 2, 2025	Solids, Total Suspended	4.6
January 2, 2025	Solids, Volatile Suspended	5.2
January 2, 2025	Turbidity	2.57
January 2, 2025	pH	7.78
January 2, 2025	Conductivity (EC)	619
January 2, 2025	Coliforms, Total	224
January 2, 2025	Coliforms, Fecal	1
January 2, 2025	E. coli	1
January 15, 2025	Coliforms, Total	128
January 15, 2025	E. coli	2
February 5, 2025	Nitrate (as N)	5.4
February 5, 2025	Nitrite (as N)	0.059
February 5, 2025	Ammonia, Un-Ionized (as N)	0.037
February 5, 2025	Nitrate+Nitrite (as N)	5.46
February 5, 2025	Nitrogen, Total	8.07
February 5, 2025	Nitrogen, Organic	1.19
February 5, 2025	UV Transmittance @ 254nm	74.9
February 5, 2025	Temperature, at pH	22.1
February 5, 2025	Alkalinity, Total (as CaCO3)	116
February 5, 2025	Alkalinity, Phenolphthalein (as CaCO3)	<1.0
February 5, 2025	Alkalinity, Bicarbonate (as CaCO3)	116
February 5, 2025	Alkalinity, Carbonate (as CaCO3)	<1.0
February 5, 2025	Alkalinity, Hydroxide (as CaCO3)	<1.0
February 5, 2025	Ammonia, Total (as N)	1.42
February 5, 2025	BOD, 5-day	6.3
February 5, 2025	BOD, 5-day Carbonaceous	<7.5

February 5, 2025	Chemical Oxygen Demand	27
February 5, 2025	Nitrogen, Total Kjeldahl	2.61
February 5, 2025	Phosphorus, Total (as P)	3.39
February 5, 2025	Phosphorus, Total Dissolved	3.1
February 5, 2025	Phosphorus, Dissolved Reactive	1.83
February 5, 2025	Solids, Total Suspended	3.5
February 5, 2025	Solids, Volatile Suspended	3.2
February 5, 2025	Turbidity	1.18
February 5, 2025	pH	7.77
February 5, 2025	Conductivity (EC)	530
February 5, 2025	Coliforms, Total	2420
February 5, 2025	Coliforms, Fecal	770
February 5, 2025	E. coli	770
February 14, 2025	Coliforms, Total	101
February 14, 2025	E. coli	<1
February 18, 2025	Coliforms, Total	88
February 18, 2025	Coliforms, Fecal	<1
February 18, 2025	E. coli	<1
February 19, 2025	Coliforms, Total	161
February 19, 2025	E. coli	<1
March 5, 2025	Nitrate (as N)	1.13
March 5, 2025	Nitrite (as N)	<0.010
March 5, 2025	Ammonia, Un-Ionized (as N)	0.037
March 5, 2025	Nitrate+Nitrite (as N)	1.13
March 5, 2025	Nitrogen, Total	3.36
March 5, 2025	UV Transmittance @ 254nm	75.3
March 5, 2025	Temperature, at pH	23.1
March 5, 2025	Alkalinity, Total (as CaCO3)	179
March 5, 2025	Alkalinity, Phenolphthalein (as CaCO3)	<1.0
March 5, 2025	Alkalinity, Bicarbonate (as CaCO3)	179
March 5, 2025	Alkalinity, Carbonate (as CaCO3)	<1.0
March 5, 2025	Alkalinity, Hydroxide (as CaCO3)	<1.0
March 5, 2025	Ammonia, Total (as N)	1.02
March 5, 2025	BOD, 5-day	<8.0
March 5, 2025	BOD, 5-day Carbonaceous	<8.0
March 5, 2025	Chemical Oxygen Demand	23
March 5, 2025	Nitrogen, Total Kjeldahl	2.23
March 5, 2025	Phosphorus, Total (as P)	4.12
March 5, 2025	Phosphorus, Total Dissolved	3.92
March 5, 2025	Phosphorus, Dissolved Reactive	3.37
March 5, 2025	Solids, Total Suspended	<3.3
March 5, 2025	Solids, Volatile Suspended	4
March 5, 2025	Turbidity	1.15
March 5, 2025	pH	7.88
March 5, 2025	Conductivity (EC)	635
March 5, 2025	Coliforms, Total	48
March 5, 2025	Coliforms, Fecal	<1
March 5, 2025	E. coli	<1

March 19, 2025	Coliforms, Total	41
March 19, 2025	E. coli	<1
April 3, 2025	Nitrate (as N)	2.97
April 3, 2025	Nitrite (as N)	0.039
April 3, 2025	Ammonia, Un-Ionized (as N)	0.008
April 3, 2025	Nitrate+Nitrite (as N)	3.01
April 3, 2025	Nitrogen, Total	4.04
April 3, 2025	Nitrogen, Organic	0.842
April 3, 2025	UV Transmittance @ 254nm	77.8
April 3, 2025	Temperature, at pH	22.5
April 3, 2025	Alkalinity, Total (as CaCO3)	232
April 3, 2025	Alkalinity, Phenolphthalein (as CaCO3)	<1.0
April 3, 2025	Alkalinity, Bicarbonate (as CaCO3)	232
April 3, 2025	Alkalinity, Carbonate (as CaCO3)	<1.0
April 3, 2025	Alkalinity, Hydroxide (as CaCO3)	<1.0
April 3, 2025	Ammonia, Total (as N)	0.194
April 3, 2025	BOD, 5-day	<8.0
April 3, 2025	BOD, 5-day Carbonaceous	<8.0
April 3, 2025	Chemical Oxygen Demand	27
April 3, 2025	Nitrogen, Total Kjeldahl	1.04
April 3, 2025	Phosphorus, Total Dissolved	2.87
April 3, 2025	Phosphorus, Dissolved Reactive	2.7
April 3, 2025	Solids, Total Suspended	<2.5
April 3, 2025	Solids, Volatile Suspended	2.5
April 3, 2025	Turbidity	1
April 3, 2025	pH	7.94
April 3, 2025	Conductivity (EC)	790
April 3, 2025	Coliforms, Total	34
April 3, 2025	Coliforms, Fecal	1
April 3, 2025	E. coli	1
April 16, 2025	Coliforms, Total	25
April 16, 2025	E. coli	1
May 7, 2025	Nitrate (as N)	4.05
May 7, 2025	Nitrite (as N)	0.089
May 7, 2025	Ammonia, Un-Ionized (as N)	0.008
May 7, 2025	Nitrate+Nitrite (as N)	4.14
May 7, 2025	Nitrogen, Total	5.54
May 7, 2025	Nitrogen, Organic	1.13
May 7, 2025	UV Transmittance @ 254nm	73.3
May 7, 2025	Temperature, at pH	22.5
May 7, 2025	Alkalinity, Total (as CaCO3)	160
May 7, 2025	Alkalinity, Phenolphthalein (as CaCO3)	<1.0
May 7, 2025	Alkalinity, Bicarbonate (as CaCO3)	160
May 7, 2025	Alkalinity, Carbonate (as CaCO3)	<1.0
May 7, 2025	Alkalinity, Hydroxide (as CaCO3)	<1.0
May 7, 2025	Ammonia, Total (as N)	0.275
May 7, 2025	BOD, 5-day	<8.0
May 7, 2025	BOD, 5-day Carbonaceous	<8.0

May 7, 2025	Chemical Oxygen Demand	<20
May 7, 2025	Nitrogen, Total Kjeldahl	1.4
May 7, 2025	Phosphorus, Total (as P)	3.5
May 7, 2025	Phosphorus, Total Dissolved	3.34
May 7, 2025	Phosphorus, Dissolved Reactive	2.81
May 7, 2025	Solids, Total Suspended	2.4
May 7, 2025	Solids, Volatile Suspended	2.4
May 7, 2025	Turbidity	1.04
May 7, 2025	pH	7.82
May 7, 2025	Conductivity (EC)	640
May 7, 2025	Coliforms, Total	462
May 7, 2025	E. coli	<1
May 21, 2025	Coliforms, Total	155
May 21, 2025	E. coli	1
June 4, 2025	Nitrate (as N)	7.92
June 4, 2025	Nitrite (as N)	0.09
June 4, 2025	Ammonia, Un-Ionized (as N)	0.007
June 4, 2025	Nitrate+Nitrite (as N)	8.01
June 4, 2025	Nitrogen, Total	9.35
June 4, 2025	UV Transmittance @ 254nm	74.5
June 4, 2025	Temperature, at pH	21.7
June 4, 2025	Alkalinity, Total (as CaCO3)	136
June 4, 2025	Alkalinity, Phenolphthalein (as CaCO3)	<1.0
June 4, 2025	Alkalinity, Bicarbonate (as CaCO3)	136
June 4, 2025	Alkalinity, Carbonate (as CaCO3)	<1.0
June 4, 2025	Alkalinity, Hydroxide (as CaCO3)	<1.0
June 4, 2025	Ammonia, Total (as N)	0.21
June 4, 2025	BOD, 5-day	<8.0
June 4, 2025	BOD, 5-day Carbonaceous	<8.0
June 4, 2025	Chemical Oxygen Demand	<20
June 4, 2025	Nitrogen, Total Kjeldahl	1.34
June 4, 2025	Phosphorus, Total (as P)	2.86
June 4, 2025	Phosphorus, Total Dissolved	2.83
June 4, 2025	Phosphorus, Dissolved Reactive	2.61
June 4, 2025	Solids, Total Suspended	2.4
June 4, 2025	Solids, Volatile Suspended	<4.0
June 4, 2025	Turbidity	1.19
June 4, 2025	pH	7.86
June 4, 2025	Conductivity (EC)	573
June 4, 2025	Coliforms, Total	513
June 4, 2025	Coliforms, Fecal	1
June 4, 2025	E. coli	1
June 18, 2025	Coliforms, Total	1050
June 18, 2025	E. coli	7
July 2, 2025	Nitrate (as N)	3.15
July 2, 2025	Nitrite (as N)	0.047
July 2, 2025	Nitrate+Nitrite (as N)	3.19
July 2, 2025	Nitrogen, Total	5.69

July 2, 2025	Nitrogen, Organic	1.08
July 2, 2025	UV Transmittance @ 254nm	75.5
July 2, 2025	Alkalinity, Total (as CaCO3)	114
July 2, 2025	Alkalinity, Phenolphthalein (as CaCO3)	<1.0
July 2, 2025	Alkalinity, Bicarbonate (as CaCO3)	114
July 2, 2025	Alkalinity, Carbonate (as CaCO3)	<1.0
July 2, 2025	Alkalinity, Hydroxide (as CaCO3)	<1.0
July 2, 2025	Ammonia, Total (as N)	1.42
July 2, 2025	BOD, 5-day	<8.0
July 2, 2025	BOD, 5-day Carbonaceous	<8.0
July 2, 2025	Chemical Oxygen Demand	<20
July 2, 2025	Nitrogen, Total Kjeldahl	2.5
July 2, 2025	Phosphorus, Total (as P)	4.09
July 2, 2025	Phosphorus, Total Dissolved	3.66
July 2, 2025	Phosphorus, Dissolved Reactive	3.8
July 2, 2025	Solids, Total Suspended	<2.0
July 2, 2025	Solids, Volatile Suspended	<2.0
July 2, 2025	Turbidity	0.6
July 2, 2025	pH	7.69
July 2, 2025	Conductivity (EC)	489
July 2, 2025	Coliforms, Total	2420
July 2, 2025	E. coli	1
July 16, 2025	Coliforms, Total	1730
July 16, 2025	E. coli	<1
August 6, 2025	Nitrate (as N)	11.6
August 6, 2025	Nitrite (as N)	0.087
August 6, 2025	Ammonia, Un-Ionized (as N)	0.004
August 6, 2025	Nitrate+Nitrite (as N)	11.7
August 6, 2025	Nitrogen, Total	13
August 6, 2025	Nitrogen, Organic	1.15
August 6, 2025	UV Transmittance @ 254nm	72.8
August 6, 2025	Temperature, at pH	22.6
August 6, 2025	Alkalinity, Total (as CaCO3)	65.9
August 6, 2025	Alkalinity, Phenolphthalein (as CaCO3)	<1.0
August 6, 2025	Alkalinity, Bicarbonate (as CaCO3)	65.9
August 6, 2025	Alkalinity, Carbonate (as CaCO3)	<1.0
August 6, 2025	Alkalinity, Hydroxide (as CaCO3)	<1.0
August 6, 2025	Ammonia, Total (as N)	0.208
August 6, 2025	BOD, 5-day	<8.0
August 6, 2025	BOD, 5-day Carbonaceous	<8.0
August 6, 2025	Chemical Oxygen Demand	<20
August 6, 2025	Nitrogen, Total Kjeldahl	1.36
August 6, 2025	Phosphorus, Total (as P)	3.98
August 6, 2025	Phosphorus, Total Dissolved	3.76
August 6, 2025	Phosphorus, Dissolved Reactive	3.37
August 6, 2025	Solids, Total Suspended	<2.0
August 6, 2025	Solids, Volatile Suspended	<2.0
August 6, 2025	Turbidity	0.8

August 6, 2025	pH	7.57
August 6, 2025	Conductivity (EC)	438
August 6, 2025	Coliforms, Total	3990
August 6, 2025	Coliforms, Fecal	5
August 6, 2025	E. coli	1
August 20, 2025	Coliforms, Total	1980
August 20, 2025	E. coli	<1
September 3, 2025	Nitrate (as N)	13.4
September 3, 2025	Nitrite (as N)	0.024
September 3, 2025	Ammonia, Un-Ionized (as N)	0.002
September 3, 2025	Nitrate+Nitrite (as N)	13.4
September 3, 2025	Nitrogen, Total	14.7
September 3, 2025	Nitrogen, Organic	1.03
September 3, 2025	UV Transmittance @ 254nm	96.6
September 3, 2025	Temperature, at pH	24.9
September 3, 2025	Alkalinity, Total (as CaCO3)	57.4
September 3, 2025	Alkalinity, Phenolphthalein (as CaCO3)	<1.0
September 3, 2025	Alkalinity, Bicarbonate (as CaCO3)	57.4
September 3, 2025	Alkalinity, Carbonate (as CaCO3)	<1.0
September 3, 2025	Alkalinity, Hydroxide (as CaCO3)	<1.0
September 3, 2025	Ammonia, Total (as N)	0.195
September 3, 2025	BOD, 5-day	<8.0
September 3, 2025	BOD, 5-day Carbonaceous	<8.0
September 3, 2025	Chemical Oxygen Demand	<20
September 3, 2025	Nitrogen, Total Kjeldahl	1.22
September 3, 2025	Phosphorus, Total Dissolved	5.74
September 3, 2025	Phosphorus, Dissolved Reactive	4.4
September 3, 2025	Solids, Total Suspended	<2.0
September 3, 2025	Solids, Volatile Suspended	2.4
September 3, 2025	Turbidity	0.95
September 3, 2025	pH	7.32
September 3, 2025	Conductivity (EC)	434
September 3, 2025	Coliforms, Total	882
September 3, 2025	Coliforms, Fecal	<1
September 3, 2025	E. coli	<1
September 17, 2025	Coliforms, Total	1550
September 17, 2025	E. coli	<1
October 1, 2025	Nitrate (as N)	14.7
October 1, 2025	Nitrite (as N)	0.027
October 1, 2025	Ammonia, Un-Ionized (as N)	<0.001
October 1, 2025	Nitrate+Nitrite (as N)	14.7
October 1, 2025	Nitrogen, Total	15.9
October 1, 2025	Nitrogen, Organic	1.07
October 1, 2025	UV Transmittance @ 254nm	70.7
October 1, 2025	Temperature, at pH	21.4
October 1, 2025	Alkalinity, Total (as CaCO3)	43.9
October 1, 2025	Alkalinity, Phenolphthalein (as CaCO3)	<1.0
October 1, 2025	Alkalinity, Bicarbonate (as CaCO3)	43.9

October 1, 2025	Alkalinity, Carbonate (as CaCO3)	<1.0
October 1, 2025	Alkalinity, Hydroxide (as CaCO3)	<1.0
October 1, 2025	Ammonia, Total (as N)	0.081
October 1, 2025	BOD, 5-day	<8.0
October 1, 2025	BOD, 5-day Carbonaceous	<8.0
October 1, 2025	Chemical Oxygen Demand	<20
October 1, 2025	Nitrogen, Total Kjeldahl	1.15
October 1, 2025	Phosphorus, Total Dissolved	3.97
October 1, 2025	Phosphorus, Dissolved Reactive	3.42
October 1, 2025	Solids, Total Suspended	<3.6
October 1, 2025	Solids, Volatile Suspended	<4.0
October 1, 2025	Turbidity	<0.10
October 1, 2025	pH	6.92
October 1, 2025	Conductivity (EC)	448
October 1, 2025	Coliforms, Total	816
October 1, 2025	Coliforms, Fecal	<1
October 1, 2025	E. coli	<1
October 15, 2025	Coliforms, Total	2420
October 15, 2025	E. coli	<1
November 6, 2025	Nitrate (as N)	5
November 6, 2025	Nitrite (as N)	0.239
November 6, 2025	Ammonia, Un-Ionized (as N)	0.004
November 6, 2025	Nitrate+Nitrite (as N)	5.24
November 6, 2025	Nitrogen, Total	7.32
November 6, 2025	Nitrogen, Organic	1.16
November 6, 2025	UV Transmittance @ 254nm	73.6
November 6, 2025	Temperature, at pH	19.6
November 6, 2025	Alkalinity, Total (as CaCO3)	89.4
November 6, 2025	Alkalinity, Phenolphthalein (as CaCO3) <1.0	
November 6, 2025	Alkalinity, Bicarbonate (as CaCO3)	89.4
November 6, 2025	Alkalinity, Carbonate (as CaCO3)	<1.0
November 6, 2025	Alkalinity, Hydroxide (as CaCO3)	<1.0
November 6, 2025	Ammonia, Total (as N)	0.917
November 6, 2025	BOD, 5-day	<8.0
November 6, 2025	BOD, 5-day Carbonaceous	<8.0
November 6, 2025	Chemical Oxygen Demand	23
November 6, 2025	Nitrogen, Total Kjeldahl	2.08
November 6, 2025	Phosphorus, Total Dissolved	4.18
November 6, 2025	Phosphorus, Dissolved Reactive	3.94
November 6, 2025	Solids, Total Suspended	<1.8
November 6, 2025	Solids, Volatile Suspended	<1.8
November 6, 2025	Turbidity	0.72
November 6, 2025	pH	7.1
November 6, 2025	Conductivity (EC)	433
November 6, 2025	Coliforms, Total	291
November 6, 2025	Coliforms, Fecal	<1
November 6, 2025	E. coli	<1
November 20, 2025	Coliforms, Total	210

November 20, 2025	E. coli	<1
December 3, 2025	Nitrate (as N)	9.87
December 3, 2025	Nitrite (as N)	0.034
December 3, 2025	Ammonia, Un-Ionized (as N)	<0.001
December 3, 2025	Nitrate+Nitrite (as N)	9.9
December 3, 2025	Nitrogen, Total	11.2
December 3, 2025	Nitrogen, Organic	1.18
December 3, 2025	UV Transmittance @ 254nm	75.6
December 3, 2025	Temperature, at pH	20.1
December 3, 2025	Alkalinity, Total (as CaCO3)	77.4
December 3, 2025	Alkalinity, Phenolphthalein (as CaCO3)	<1.0
December 3, 2025	Alkalinity, Bicarbonate (as CaCO3)	77.4
December 3, 2025	Alkalinity, Carbonate (as CaCO3)	<1.0
December 3, 2025	Alkalinity, Hydroxide (as CaCO3)	<1.0
December 3, 2025	Ammonia, Total (as N)	0.078
December 3, 2025	BOD, 5-day	<8.0
December 3, 2025	BOD, 5-day Carbonaceous	<8.0
December 3, 2025	Chemical Oxygen Demand	25
December 3, 2025	Nitrogen, Total Kjeldahl	1.26
December 3, 2025	Phosphorus, Total Dissolved	3
December 3, 2025	Phosphorus, Dissolved Reactive	2.96
December 3, 2025	Solids, Total Suspended	<1.8
December 3, 2025	Solids, Volatile Suspended	<1.8
December 3, 2025	Turbidity	0.64
December 3, 2025	pH	7
December 3, 2025	Conductivity (EC)	433
December 3, 2025	Coliforms, Total	435
December 3, 2025	Coliforms, Fecal	1
December 3, 2025	E. coli	1
December 17, 2025	Coliforms, Total	313
December 17, 2025	E. coli	<1

January 8, 2025	Nitrate (as N)	0.108	0.074
January 8, 2025	Nitrite (as N)	<0.010	<0.010
January 8, 2025	Nitrate+Nitrite (as N)	0.108	0.0741
January 8, 2025	Nitrogen, Total	0.562	0.438
January 8, 2025	Ammonia, Total (as N)	<0.050	<0.050
January 8, 2025	Nitrogen, Total Kjeldahl	0.454	0.364
January 8, 2025	Phosphorus, Total (as P)	0.0098	0.0122
January 8, 2025	Phosphorus, Dissolved Reactive	<0.0050	0.0062
January 8, 2025	Coliforms, Total	183	185
January 8, 2025	E. coli	5	4
April 30, 2025	Nitrate (as N)	0.027	0.038
April 30, 2025	Nitrite (as N)	<0.010	<0.010
April 30, 2025	Nitrate+Nitrite (as N)	0.027	0.0381
April 30, 2025	Nitrogen, Total	0.229	0.138
April 30, 2025	Ammonia, Total (as N)	<0.050	<0.050
April 30, 2025	Nitrogen, Total Kjeldahl	0.202	0.1
April 30, 2025	Phosphorus, Total (as P)	0.0157	0.0118
April 30, 2025	Phosphorus, Dissolved Reactive	<0.0050	0.0087
April 30, 2025	Coliforms, Total	649	231
April 30, 2025	E. coli	7	5
July 23, 2025	Nitrate (as N)	0.023	0.018
July 23, 2025	Nitrite (as N)	<0.010	<0.010
July 23, 2025	Nitrate+Nitrite (as N)	0.0232	0.0185
July 23, 2025	Nitrogen, Total	0.115	0.404
July 23, 2025	Ammonia, Total (as N)	<0.050	<0.050
July 23, 2025	Nitrogen, Total Kjeldahl	0.092	0.386
July 23, 2025	Phosphorus, Total (as P)	0.0073	0.009
July 23, 2025	Phosphorus, Dissolved Reactive	<0.0050	<0.0050
July 23, 2025	Coliforms, Total	>= 2420	>= 2420
July 23, 2025	E. coli	17	30
October 8, 2025	Nitrate (as N)	<0.010	<0.010
October 8, 2025	Nitrite (as N)	<0.010	<0.010
October 8, 2025	Nitrate+Nitrite (as N)	<0.0100	<0.0100
October 8, 2025	Nitrogen, Total	0.105	0.127
October 8, 2025	Ammonia, Total (as N)	<0.050	<0.050
October 8, 2025	Nitrogen, Total Kjeldahl	0.105	0.127
October 8, 2025	Phosphorus, Total (as P)	0.0057	0.0127
October 8, 2025	Phosphorus, Dissolved Reactive	<0.0050	<0.0050
October 8, 2025	Coliforms, Total	2000	1730
October 8, 2025	E. coli	5	11