PROVIDING MORE EPCOR

Gold Bar Wastewater Treatment Plant
Plant Performance Report
July 2025

Digested Sludge: Total Monthly Volume (ML)	69.5

Volume of Flow (ML)

DATE	Peak Flow (ML/D)	Influent	Effluent						
			Non UV Disinfected			UV Disinfected			
		INFs	RAW	OUTFALL 30	OUTFALL 20	MPW	EPBPS	OUTFALL 10 FEC	OUTFALL 10 FE
Tue-01	344.6	0.0	303.1	0.0	0.0	11.4	0.0	291.7	291.7
Wed-02	362.8	0.0	302.4	0.0	0.0	11.3	0.0	291.1	291.1
Thu-03	341.2	0.0	293.6	0.0	0.0	10.8	0.0	282.8	282.8
Fri-04	323.3	0.0	289.0	0.0	0.0	11.5	0.0	277.5	277.5
Sat-05	331.3	0.0	281.6	0.0	0.0	11.7	0.0	269.9	269.9
Sun-06	347.7	0.0	508.2	178.0	0.0	11.3	0.0	318.9	318.9
Mon-07	397.1	0.0	324.6	3.6	0.0	11.9	0.0	309.1	309.1
Tue-08	351.6	0.0	313.0	0.0	0.0	11.2	0.0	301.8	301.8
Wed-09	356.8	0.0	298.3	0.0	0.0	11.4	0.0	286.9	286.9
Thu-10	340.4	0.0	294.4	0.0	0.0	11.1	0.0	283.3	283.3
Fri-11	333.0	0.0	288.0	0.0	0.0	11.1	0.0	276.9	276.9
Sat-12	311.0	0.0	285.2	0.0	0.0	11.3	0.0	273.9	273.9
Sun-13	326.9	0.0	295.7	0.0	0.0	11.7	0.0	284.0	284.0
Mon-14	331.5	0.0	292.1	0.0	0.0	12.1	0.0	280.0	280.0
Tue-15	319.9	0.0	295.3	0.0	0.0	13.9	0.0	281.4	281.4
Wed-16	367.0	0.0	290.3	0.0	0.0	13.2	0.0	277.1	277.1
Thu-17	312.6	0.0	284.1	0.0	0.0	13.0	0.0	271.1	271.1
Fri-18	337.2	0.0	294.9	0.0	0.0	12.1	0.0	282.8	282.8
Sat-19	566.3	0.0	457.6	166.1	0.0	12.5	0.0	279.0	279.0
Sun-20	398.8	0.0	340.1	11.9	0.0	12.3	0.0	315.9	315.9
Mon-21	357.0	0.0	317.8	0.0	0.0	11.8	0.0	306.0	306.0
Tue-22	355.2	0.0	298.4	0.0	0.0	12.5	0.0	285.9	285.9
Wed-23	354.7	0.0	294.9	0.0	0.0	12.5	0.0	282.4	282.4
Thu-24	358.7	0.0	297.4	0.0	0.0	11.1	0.0	276.3	276.3
Fri-25	1,440.5	0.0	445.9	100.4	0.0	11.4	0.0	334.1	334.1
Sat-26	399.7	0.0	298.7	0.0	0.0	11.5	0.0	287.2	287.2
Sun-27	607.6	0.0	325.2	18.8	0.0	11.1	0.0	295.3	295.3
Mon-28	345.3	0.0	310.0	0.0	0.0	11.3	0.0	298.7	298.7
Tue-29	349.3	0.0	297.7	0.0	0.0	11.2	0.0	286.5	286.5
Wed-30	351.1	0.0	299.8	0.0	0.0	12.2	0.0	287.6	287.6
Thu-31	357.8	0.0	301.7	0.0	0.0	12.0	0.0	289.7	289.7
Average	429.3	0.0	316.4	15.4	0.0	11.8	0.0	289.2	289.2
Minimum	311.0	0.0	281.6	0.0	0.0	10.8	0.0	269.9	269.9
Maximum	1,440.5	0.0	508.2	178.0	0.0	13.9	0.0	334.1	334.1
Geoffean	---	---	---	---	---	---	---	---	---
TOTAL	---	0	9,809	479	0	365	0	8,965	8,965

Liquid Stream Quality

DATE	pH@25°C				TSS (mg/L)						BOD$_5$/cBOD$_5$ (mg/L)								TP (mg/L)						NH3-N (mg/L)						un-Ionized NH3-N (mg/L)			TKN (mg/L)				NO$_3$+NO$_2$ (mg/L)				Chloride (mg/L)				E. coli (Counts/100 mL)			
	RAW	OUTFALL 30	OUTFALL 20	OUTFALL 10 FEC	RAW	OUTFALL 30	OUTFALL 20	EPBPS	OUTFALL 10 FEC	OUTFALL 10 FE	RAW	OUTFALL 30 BOD$_5$	OUTFALL 20 BOD$_5$	EPEPS BOD$_5$	OUTFALL 10 FEC cBOD$_5$	OUTFALL 10 FE cBOD$_5$	RAW	OUTFALL 30	OUTFALL 20	EPBPS	OUTFALL 10 FEC	OUTFALL 10 FE	RAW	OUTFALL 30	OUTFALL 20	EPBPS	OUTFALL 10 FEC	OUTFALL 10 FE	OUTFALL 30	OUTFALL 20	OUTFALL 10	RAW	OUTFALL 30	OUTFALL 20	OUTFALL 10 FEC	RAW	OUTFALL 30	OUTFALL 20	OUTFALL 10 FEC	RAW	OUTFALL 30	OUTFALL 20	OUTFALL 10 FEC	RAW	OUTFALL 30	OUTFALL 20	OUTFALL 10 FEC
Tue-01	7.6			7.6	392				8.2	8.2	276				5	5	7.72				1.21	1.21	34.1				1.21	1.21				55.3			3.4			9.7	93.9			102				19
Wed-02	7.5			7.9	276				9.0	9.0	276				5	5	7.76				1.77	1.77	36.4				1.77	1.77				62.3			3.8	< 0.01			10.0	102			99.8				10
Thu-03	7.5			7.7	300				6.9	6.9	227				4	4	7.83				1.83	1.83	40.9				1.83	1.83				57.9			4.3			9.7	96.6			108				6
Fri-04	7.7			7.6	268				10.9	10.9	227				5	5	6.70				1.68	1.68	39.9				1.68	1.68				52.8			3.0			10.9	96.2			109				17
Sat-05	7.4			7.6	328				7.6	7.6	268				4	4	7.75				1.61	1.61	40.2				1.61	1.61				58.9			3.3			11.5	89.3			106				8
Sun-06	7.4	7.5		7.6	332	46			5.3	5.3	177	73			4	4	4.59	4.36			0.58	0.58	20.8	28.6			0.78	0.78		0.05		32.0	33.0		2.4		8.1	57.8	65.8		85.7	< 80.0			9
Mon-07	7.6	7.9		7.7	248	65			5.9	5.9	317	94			5	5	6.46	6.20			0.34	0.34	33.7	36.9			0.77	0.77		0.04		48.3	43.2		1.9		10.5	89.7	86.8		81.0	1.5			20
Tue-08	7.6			7.7	260				6.7	6.7	249				7	7	6.64				1.26	1.26	35.2				1.26	1.26				49.0			2.9			11.2	95.4			98.7				25
Wed-09	7.6			7.7	300				7.1	7.1	290				8	8	7.37				1.02	1.02	35.7				1.02	1.02				59.3			3.1	< 0.01			10.4	101			104				20
Thu-10	7.5			7.7	336				5.9	5.9	303				9	9	7.73				1.03	1.03	39.1				1.03	1.03				60.6			2.9			11.4	102			109				31
Fri-11	7.5			7.7	344				6.5	6.5	303				10	10	7.58				0.56	0.56	36.2				0.87	0.87				53.8			2.6			11.8	97.3			108				14
Sat-12	7.6			7.7	344				5.9	5.9	286				8	8	7.28				1.11	1.11	33.5				0.41	0.41				48.1			2.3			10.1	93.8			102				3
Sun-13	7.5			7.6	360				5.2	5.2	260				9	9	7.87				0.65	0.65	34.9				0.58	0.58				55.4			2.2			11.2	91.6			98.0				6
Mon-14	7.5			7.7	384				4.3	4.3	344				9	9	8.21				0.49	0.49	36.6				0.68	0.68				58.1			2.8			10.6	98.0			98.1				7
Tue-15	7.6			7.7	372				6.2	6.2	270				7	7	8.64				0.40	0.40	38.1				0.73	0.73				61.7			2.8			10.4	95.5			102				11
Wed-16	7.6			7.6	268				4.6	4.6	235				6	6	8.13				0.34	0.34	36.8				1.17	1.17				60.8			3.5	< 0.01			11.2	96.8			99.4				8
Thu-17	7.5			7.7	336				5.2	5.2	305				7	7	9.63				0.53	0.53	36.8				2.57	2.57				63.1			5.2			8.6	101			102				11
Fri-18	7.4			7.6	328				7.0	7.0	235				6	6	9.20				0.47	0.47	37.1				0.74	0.74				60.6			3.0			11.1	95.6			107				19
Sat-19	7.3	7.5		7.5	340	62			6.6	6.6	220	114			5	5	6.57	6.98			0.47	0.47	20.8	31.2			0.37	0.37				39.0	37.8		2.6		0.04	9.3	60.3	63.5		96.6	1.9			6
Sun-20	7.4	7.5		7.4	336	52			5.3	5.3	156	76			4	4	7.36	7.05			0.41	0.41	31.0	33.9			0.55	0.55				50.2	41.7		2.3		0.34	7.7	73.2	62.7		66.9	2.0			12
Mon-21	7.6			7.5	316				6.3	6.3	261				5	5	8.39				0.44	0.44	35.8				0.80	0.80				55.3			2.5			11.2	79.8			82.7				19
Tue-22	7.5			7.7	384				5.7	5.7	258				6	6	9.86				0.41	0.41	38.6				0.70	0.70				60.8			2.6			11.6	86.8			96.1				33
Wed-23	7.5			7.7	360				5.7	5.7	261				5	5	8.95				0.44	0.44	38.3				0.70	0.70				62.7			2.8	< 0.01			12.0	88.5			94.2				16
Thu-24	7.6			7.6	352				5.7	5.7	221				5	5	9.39				0.43	0.43	37.9				0.72	0.72				60.4			3.0			12.6	91.6			98.6				7
Fri-25	7.3	7.5		7.6	312	88			4.7	4.7	169	91			4	4	5.01	4.96			0.37	0.37	20.1	20.5			0.49	0.49				31.2	25.4		2.5		0.18	9.5	55.6	48.2		82.3	1.1			10
Sat-26	7.4			7.5	380				5.6	5.6	163				4	4	8.54				0.39	0.39	35.5				0.65	0.65				57.7			2.4			13.0	78.8			87.3				4
Sun-27	7.5	7.7		7.6	388	108			6.2	6.2	249	86			4	4	7.41	9.24			0.44	0.44	33.9	43.0			0.49	0.49				52.9	55.9		2.4		0.08	12.7	75.9	71.8		86.8	2.0			3
Mon-28	7.5			7.5	356				6.2	6.2	268				4	4	7.88				0.74	0.74	36.6				0.27	0.27				57.6			2.2			12.0	79.6			81.7				12
Tue-29	7.5			7.7	368				6.3	6.3	278				4	4	7.79				0.48	0.48	35.8				0.24	0.24				56.0			2.3			11.5	82.9			86.2				5
Wed-30	7.7			7.9	312				6.2	6.2	253				3	3	7.58				0.40	0.40	35.0				0.26	0.26				55.4			2.2	< 0.01			10.2	84.0			87.7				8
Thu-31	7.6			7.7	280				5.8	5.8	217				3	3	7.46				0.38	0.38	34.6				0.24	0.24				53.1			2.3			9.8	83.0			89.4				4
Average	7.5	7.6	---	7.6	329	70	---	---	6.3	6.3	252	89	---	---	6	6	7.72	6.47	---	---	0.47	0.47	34.8	32.4	---	---	0.88	0.88	---	---	---	54.2	38.5	---	2.8	< 0.01	0.12	---	10.7	87.5	60.5	---	96.5	---	---	---	---
Minimum	7.3	7.5	---	7.4	248	46	---	---	4.3	4.3	156	73	---	---	3	3	4.59	4.36	---	---	0.34	0.34	20.1	20.5	---	---	0.24	0.24	---	---	---	31.2	25.4	---	1.9	< 0.01	0.04	---	7.7	55.6	48.2	---	66.9	---	1.1	---	3
Maximum	7.7	7.9	---	7.9	392	108	---	---	10.9	10.9	344	114	---	---	10	10	9.86	9.24	---	---	1.11	1.11	40.9	43.0	---	---	2.57	2.57	---	---	---	63.1	55.9	---	5.2	< 0.01	0.34	---	13.0	102	86.8	---	109	---	> 80.0	---	33
Geoffean	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
TOTAL	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

* Contact Laboratory for information about the quality assurance associated with the results

Enhanced Primary Treatment (EPT) Usage

Total Bypass (hr)	EPT Usage (hr)	% Usage	Total Bypass YTD (hr)	EPT Usage YTD (hr)	% Usage YTD
55	55	100%	403	403	100%

Report Comments

AEP Ref #

RAW Untreated Influent into the plant
INF Untreated wastewater from collection system
INFs Influent, screened at the Hesdeeks Diversion Structure
PE Primary Effluent from conventional primaries
PE 30 Primary Effluent from conventional primaries discharged via Outfall 30
EPT Enhanced Primary Treatment
EPE Enhanced Primary Effluent
EPEPS Enhanced Primary Effluent Pump Station
FE Final Effluent from secondary treatment process (with biological nutrient removal). Pre-Ultraviolet disinfection.

FEC Combined post-UV disinfection (FE+EPEPS)
OUTFALL 10 UV-disinfected, discharged via OUTFALL 10
OUTFALL 20 Combined Bypass (RAW + PE + EPE)
OUTFALL 30 Combined Bypass (INF + INFS + PE30 + EPE)
MPW Membrane Product Water (Effluent re-use water)
ML Megalitre (1,000,000 Litre)
MPN Most Probable Number
NR No Result
NS No Sample
INS Insufficient Sample
EP Alberta Environment & Parks

Jaime Gingrich P.Eng.
Senior Manager, WWTP Operations

Paul Jacquier MBA, BMSc.
Senior Manager, Analytical Operations