PROVIDING MORE EPCOR

Gold Bar Wastewater Treatment Plant
Plant Performance Report
March-2026

DATE	Peak Flow (MLD)	Volume of Flow (ML)								Liquid Stream Quality																																			
		Influent		Effluent						pH@25°C				TSS (mg/L)						BOD5/cBOD5 (mg/L)						TP (mg/L)						NH3-N (mg/L)						TKN (mg/L)				NO2+NO3 (mg/L)				Chloride (mg/L)				E. coli (Counts/100 mL)			
				Non UV Disinfected			UV Disinfected																																												
								OUTFALL 10										OUTFALL 10						OUTFALL 10						OUTFALL 10						OUTFALL 10															
																				RAW	OUTFALL 30	OUTFALL 20	EPEPS	OUTFALL 10																											
																								FEC	FE																												
DATE	Peak Flow (MLD)	INFs	RAW	OUTFALL 30	OUTFALL 20	MPW	EPEPS	FEC	FE	RAW	OUTFALL 30	OUTFALL 20	OUTFALL 10 FEC	RAW	OUTFALL 30	OUTFALL 20	EPEPS	OUTFALL 10 FEC	OUTFALL 10 FE	RAW BOD5	OUTFALL 30 BOD5	OUTFALL 20 BOD5	EPEPS BOD5	OUTFALL 10 FEC cBOD5	OUTFALL 10 FE cBOD5	RAW	OUTFALL 30	OUTFALL 20	EPEPS	OUTFALL 10 FEC	OUTFALL 10 FE	RAW	OUTFALL 30	OUTFALL 20	EPEPS	OUTFALL 10 FEC	OUTFALL 10 FE	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 X10^6	OUTFALL 30 X10^6	OUTFALL 20 X10^6	OUTFALL 10 FEC
Sun-01	392.0	0.0	280.7	0.0	0.0	11.0	0.0	269.7	269.7	7.61			7.62	400				10.8	10.8	284				4	4	9.5				0.67	0.67	36.7				3.23	3.23	57.4			5.3				13.4	99.9			106				32
Mon-02	378.1	0.0	280.9	0.0	0.0	11.3	0.0	269.6	269.6	7.68			7.65	356				8.4	8.4	287				4	4	9.2				0.51	0.51	38.9				2.67	2.67	61.0			3.9				12.1	104			104				13
Tue-03	331.8	0.0	272.1	0.0	0.0	10.7	0.0	261.4	261.4	6.86			6.85	340				7.8	7.8	302				3	3	9.9				0.48	0.48	39.0				2.24	2.24	60.7			3.7				12.5	168			109				22
Wed-04	337.2	0.0	273.3	0.0	0.0	11.2	0.0	262.1	262.1	7.51			7.62	300				7.5	7.5	271				3	3	8.6				0.51	0.51	39.6				2.17	2.17	51.9			3.8	<0.01			13.4	181			114				16
Thu-05	346.5	0.0	282.7	0.0	0.0	11.9	0.0	270.8	270.8	7.61			7.54	408				4.8	4.8	274				3	3	9.1				0.41	0.41	40.0				2.32	2.32	63.6			3.9				13.1	270			129				14
Fri-06	467.0	0.0	302.5	17.1	0.0	12.2	0.0	273.2	273.2	7.39	7.38		7.40	288	132			7.1	7.1	287	208			3	3	7.4	7.4			0.44	0.44	36.0	42.6			2.28	2.28	52.4	57.9		3.8		0.61		11.9	260	507		225		1.6		12
Sat-07	924.6	0.0	459.3	152.7	0.0	11.8	0.0	294.8	294.8	7.39	7.34		7.31	452	257			5.7	5.7	206	160			4	4	6.6	7.3			0.34	0.34	21.7	30.2			0.85	0.85	33.5	39.8		2.3		0.48		10.9	313	344		296		2.3		12
Sun-08	474.5	0.0	347.2	35.9	0.0	11.0	0.0	300.3	300.3	7.52	7.55		7.42	280	90			5.4	5.4	242	132			3	3	7.1	7.2			0.29	0.29	28.9	38.0			1.85	1.85	40.2	51.5		3.3		0.28		8.2	174	186		241		1.6		4
Mon-09	383.8	0.0	304.6	2.8	0.0	11.5	0.0	290.3	290.3	7.58	7.79		7.53	316	82			5.1	5.1	251	146			3	3	8.0	8.0			0.30	0.30	35.2	40.9			2.71	2.71	48.6	52.5		4.6				10.0	111			146		1.2		10
Tue-10	361.7	0.0	293.8	0.0	0.0	11.6	0.0	282.2	282.2	7.45			7.42	292				4.3	4.3	251				3	3	9.4				0.32	0.32	36.5				4.09	4.09	51.8			5.3				11.6	107			123				13
Wed-11	379.5	0.0	291.3	0.0	0.0	11.4	0.0	279.9	279.9	7.51			7.48	332				3.3	3.3	251				3	3	9.0				0.32	0.32	39.3				2.88	2.88	59.3			5.1	<0.01			12.7	104			115				9
Thu-12	345.5	0.0	279.0	0.0	0.0	11.8	0.0	267.2	267.2	7.49			7.52	308				4.0	4.0	267				3	3	9.2				0.33	0.33	40.3				2.23	2.23	58.2			4.5				14.5	96.7			116				22
Fri-13	333.0	0.0	280.2	0.0	0.0	11.6	0.0	268.6	268.6	7.44			7.37	248				4.7	4.7	286				3	3	8.8				0.35	0.35	39.1				2.10	2.10	62.2			4.4				15.1	90.5			103				21
Sat-14	339.3	0.0	279.1	0.0	0.0	11.9	0.0	267.2	267.2	7.52			7.44	332				4.7	4.7	364				4	4	8.8				0.39	0.39	40.7				3.07	3.07	59.0			4.1				14.9	88.6			106				25
Sun-15	392.1	0.0	281.7	0.0	0.0	11.8	0.0	269.9	269.9	7.51			7.52	360				4.4	4.4	242				3	3	8.5				0.50	0.50	40.1				3.87	3.87	51.4			5.7				14.8	89.5			95.3				24
Mon-16	587.2	0.0	299.8	11.0	0.0	11.5	0.0	277.3	277.3	7.46	7.61		7.42	464	114			5.3	5.3	259	182			3	3	9.1	8.9			0.56	0.56	38.1	46.0			3.53	3.53	55.6	54.6		5.3				13.5	111			94.3		2.1		20
Tue-17	904.7	0.0	440.2	146.6	0.0	11.2	0.0	282.4	282.4	7.20	7.32		7.24	408	171			5.0	5.0	170	103			3	3	6.0	5.8			0.45	0.45	21.1	30.7			1.69	1.69	34.8	39.3		3.8		0.37		11.7	167	205		167		1.7		12
Wed-18	1079.2	0.0	495.9	179.6	0.0	11.3	0.0	305.0	305.0	7.20	7.29		7.21	300	155			5.1	5.1	164	84			3	3	4.9	6.2			0.38	0.38	19.9	30.0			1.12	1.12	26.9	34.9		2.5	<0.01	0.46		8.7	108	123		142		1.5		10
Thu-19	1505.5	19.0	723.3	408.0	0.0	11.3	0.0	304.0	304.0	7.27	7.29		7.31	344	171			4.7	4.7	148	94			3	3	4.0	5.1			0.30	0.30	15.6	21.7			0.98	0.98	22.6	27.5		2.4		0.51		6.3	84.8	101		112		1.2	0.6	17
Fri-20	1091.2	0.0	440.1	114.1	0.0	11.4	0.0	314.6	314.6	7.39	7.73		7.35	267	117			5.3	5.3	138	76			4	4	4.1	3.6			0.43	0.43	14.7	17.8			2.64	2.64	21.9	21.3		3.8		0.57		5.8	89.3	93.9		94.9		0.6		11
Sat-21	528.9	0.0	347.4	50.1	0.0	11.1	0.0	286.2	286.2	7.46	7.51		7.32	532	81			5.8	5.8	184	89			3	3	6.5	7.3			0.66	0.66	32.0	38.8			4.16	4.16	44.2	46.5		7.7		0.37		9.9	244	349		139		1.6		7
Sun-22	391.1	0.0	304.7	2.7	0.0	11.0	0.0	291.0	291.0	7.47	7.70		7.44	268	57			4.4	4.4	229	112			4	4	8.1	6.8			0.38	0.38	33.9	35.3			4.61	4.61	51.9	46.5		6.2				9.8	98.8			183		0.8		9
Mon-23	378.1	0.0	307.9	0.0	0.0	11.0	0.0	296.9	296.9	7.44			7.35	372				3.6	3.6	256				4	4	9.0				0.34	0.34	36.3				5.58	5.58	51.1			6.8				9.2	111			118	2.1			22
Tue-24	363.9	0.0	292.7	0.0	0.0	11.4	0.0	281.3	281.3	7.41			7.45	444				4.6	4.6	281				4	4	9.3				0.30	0.30	37.5				3.80	3.80	59.9			5.5				9.7	106			116				15
Wed-25	359.9	0.0	282.7	0.0	0.0	11.7	0.0	271.0	271.0	7.52			7.36	400				5.6	5.6	232				4	4	9.8				0.40	0.40	36.7				3.65	3.65	63.4			6.3	<0.01			10.8	114			113				16
Thu-26	358.2	0.0	283.6	0.0	0.0	11.3	0.0	272.3	272.3	7.51			7.42	384				2.3	2.3	253				3	3	8.9				0.46	0.46	39.0				3.70	3.70	56.9			5.7				12.6	188			130				>800
Fri-27	438.4	0.0	299.2	14.7	0.0	11.0	0.0	273.5	273.5	7.43	7.46		7.44	384	84			3.5	3.5	296	167			4	4	8.7	7.9			0.31	0.31	34.9	46.0			7.67	7.67	53.6	57.1		5.5		0.98		12.5	227	402		201		2.0		1
Sat-28	366.3	0.0	289.8	0.0	0.0	11.0	0.0	278.8	278.8	7.57			7.47	380				4.5	4.5	293				3	3	9.0				0.42	0.42	35.7				2.49	2.49	56.9			4.8				11.3	120			218				9
Sun-29	354.4	0.0	282.4	0.0	0.0	10.8	0.0	271.6	271.6	7.62			7.76	448				6.0	6.0	245				5	5	9.7				0.28	0.28	33.0				3.51	3.51	63.4			4.1				11.5	105			138				7
Mon-30	374.3	0.0	289.3	0.0	0.0	10.9	0.0	278.4	278.4	7.51			7.57	460				6.8	6.8	292				4	4	9.0				0.36	0.36	33.4				3.88	3.88	57.7			5.4				11.8	237			136				8
Tue-31	377.6	0.0	290.2	0.0	0.0	10.7	0.0	279.5	279.5	7.53			7.57	484				5.7	5.7	262				4	4	10.1				0.38	0.38	35.8				3.10	3.10	58.3			5.0				10.4	142			225				13
Average	**504.7**	**0.6**	**328.3**	**36.6**	**0.0**	**11.3**	**0.0**	**280.4**	**280.4**	**7.45**	**7.50**		**7.43**	**366**	**126**			**5.4**	**5.4**	**251**	**129**			**3**	**3**	**8.2**	**6.8**			**0.41**	**0.41**	**33.9**	**34.8**			**3.05**	**3.05**	**51.3**	**44.1**		**4.7**	**<0.01**	**0.51**		**11.4**	**145**	**257**		**144**				
Minimum	**331.8**	**0.0**	**272.1**	**0.0**	**0.0**	**10.7**	**0.0**	**261.4**	**261.4**	**6.86**	**7.29**		**6.85**	**248**	**57**			**2.3**	**2.3**	**138**	**76**			**3**	**3**	**4.0**	**3.6**			**0.28**	**0.28**	**14.7**	**17.8**			**0.85**	**0.85**	**21.9**	**21.3**		**2.3**	**<0.01**	**0.28**		**5.8**	**85**	**94**		**94**	**2.1**	**0.2**	**0.6**	**1**
Maximum	**1505.5**	**19.0**	**723.3**	**408.0**	**0.0**	**12.2**	**0.0**	**314.6**	**314.6**	**7.68**	**7.79**		**7.76**	**532**	**257**			**10.8**	**10.8**	**364**	**208**			**5**	**5**	**10.1**	**8.9**			**0.67**	**0.67**	**40.7**	**46.0**			**7.67**	**7.67**	**63.6**	**57.9**		**7.7**	**<0.01**	**0.98**		**15.1**	**313**	**507**		**296**	**2.1**	**2.7**	**0.6**	**>800**
GeoMean																																																		**2.1**	**1.4**	**0.6**	**14**
Total		**19**	**10178**	**1135**	**0**	**351**	**0**	**8691**	**8691**																																											

Digested SludgeTotal Monthly Volume (ML):	67.6

Enhanced Primary Treatment (EPT) Usage

Total Bypass (hr)	EPT Usage (hr)	% Usage
124	124	100%

AEP Comments

Reference #	Comments

Report Comments

Collection Date	Location	Test	Comment
3/2/2026	RAW	BOD_C	Sample dilutions show more than 30% between highest and lowest value
3/6/2026	OUTFALL10	BOD_C	Sample was required to be reran, was reran from frozen.
3/9/2026	OUTFALL30		Insufficient sample volume to perform analysis of COD, CL_IC, N-TOX, SO4_IC,TP_D, FLUORIDE, METALS.
3/9/2026	OUTFALL10	BOD_C	Sample dilutions show more than 30% between highest and lowest value
3/10/2026	OUTFALL10	BOD	Sample dilutions show more than 30% between highest and lowest value
3/14/2026	RAW	BOD	Sample dilutions show more than 30% between highest and lowest value
3/16/2026	OUTFALL30		Insufficient sample volume to perform analysis of CL_IC, COD, METALS/DISS, N-TOX, TOC, TPD, SO4_IC, FLUORIDE.
3/21/2026	OUTFALL30	BOD	Sample dilutions show more than 30% between highest and lowest value
3/21/2026	RAW	BOD_C	Sample dilutions show more than 30% between highest and lowest value
3/21/2026	RAW	BOD	Sample dilutions show more than 30% between highest and lowest value
3/22/2026	OUTFALL30		Insufficient sample volume to perform analysis of N-TOX, TP_D, CL_IC, TOC, SO4_IC, METALS, DISS, ICPMS, METALS_ICPMS, FLUORIDE.
3/29/2026	OUTFALL10	BOD_C	Sample dilutions show more than 30% between highest and lowest value
3/30/2026	RAW	BOD	Sample dilutions show more than 30% between highest and lowest value

RAW	Untreated Influent into the plant	OUTFALL 10	UV-disinfected, discharged via OUTFALL 10
INF	Untreated wastewater from collection system	OUTFALL 20	Combined Bypass (RAW + PE + EPE)
INFs	Influent, screened at the Headworks Diversion Structure	OUTFALL 30	Combined Bypass (INF + INFS + PE30 + EPE)
PE	Primary Effluent from conventional primaries	MPW	Membrane Product Water (Effluent re-use water)
PE 30	Primary Effluent from conventional primaries discharged via Outfall 30	ML	Megalitre (1,000,000 Litre)
EPT	Enhanced Primary Treatment	MPN	Most Probable Number
EPE	Enhanced Primary Effluent	NR	No Result
EPEPS	Enhanced Primary Effluent Pump Station	NS	No Sample
FE	Final Effluent from secondary treatment process (with biological nutrient removal). Pre-Ultraviolet disinfection.	INS	Insufficient Sample
FEC	Combined post-UV disinfection (FE+EPEPS)	AEP	Alberta Environment & Parks
	Indicates the displayed result is an average or geomean of more than one sample on that day.		

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

Averages and geometric means may be calculated using only the numeric component of censored values.

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Report finalized by Ayesha Prasad Apr 22, 2026 08:44