PROVIDING MORE EPCOR

Gold Bar Wastewater Treatment Plant
Plant Performance Report
January 2017

Digested Sludge: Total Monthly Volume (ML)	59.93

Volume of Flow (ML)

DATE	Peak Flow (MLD)	Influent RAW	Effluent Non UV Disinfected OUTFALL30 BYPASS	Effluent Non UV Disinfected MPW	Effluent UV Disinfected OUTFALL20	Effluent UV Disinfected EPEPS	Effluent UV Disinfected OUTFALL10 FEC	Effluent UV Disinfected OUTFALL10 FE
Sun 01	365.46	240.94	0.00	9.77	0.00	0.00	231.17	231.17
Mon 02	364.16	235.07	0.00	9.89	0.00	0.00	225.18	225.18
Tue 03	330.08	241.25	0.00	9.77	0.00	0.00	231.48	231.48
Wed 04	328.23	242.54	0.00	9.51	0.00	0.00	233.03	233.03
Thu 05	319.86	240.62	0.00	9.81	0.00	0.00	230.81	230.81
Fri 06	367.16	242.23	0.00	9.55	0.00	0.00	232.68	232.68
Sat 07	356.96	238.82	0.00	10.02	0.00	0.00	228.80	228.80
Sun 08	380.24	239.91	0.00	10.36	0.00	0.00	229.55	229.55
Mon 09	346.61	246.04	0.00	9.54	0.00	0.00	236.50	236.50
Tue 10	358.36	241.97	0.00	9.84	0.00	0.00	232.13	232.13
Wed 11	350.18	243.41	0.00	10.17	0.00	0.00	233.24	233.24
Thu 12	339.38	242.10	0.00	9.05	0.00	0.00	233.05	233.05
Fri 13	379.78	241.01	0.00	9.59	0.00	0.00	231.42	231.42
Sat 14	385.71	240.23	0.00	9.88	0.00	0.00	230.35	230.35
Sun 15	374.90	244.51	0.00	9.57	0.00	0.00	234.94	234.94
Mon 16	522.78	247.47	0.00	9.50	0.00	0.00	237.97	237.97
Tue 17	360.07	256.37	0.00	9.25	0.00	0.00	247.12	247.12
Wed 18	397.37	267.20	0.00	8.69	0.00	0.00	258.51	258.51
Thu 19	379.45	253.81	0.00	9.96	0.00	0.00	243.85	243.85
Fri 20	352.49	246.54	0.00	9.95	0.00	0.00	236.59	236.59
Sat 21	372.15	242.97	0.00	8.60	0.00	0.00	234.37	234.37
Sun 22	366.47	244.36	0.00	9.61	0.00	0.00	234.75	234.75
Mon 23	353.69	248.52	0.00	9.96	0.00	0.00	238.56	238.56
Tue 24	344.84	243.46	0.00	10.98	0.00	0.00	232.48	232.48
Wed 25	336.32	244.04	0.00	10.98	0.00	0.00	233.06	233.06
Thu 26	366.44	244.96	0.00	10.11	0.00	0.00	234.85	234.85
Fri 27	376.71	243.76	0.00	10.28	0.00	0.00	233.48	233.48
Sat 28	365.44	239.66	0.00	10.28	0.00	0.00	229.38	229.38
Sun 29	378.18	242.12	0.00	10.53	0.00	0.00	231.59	231.59
Mon 30	370.36	250.63	0.00	10.55	0.00	0.00	240.08	240.08
Tue 31	356.37	243.21	0.00	10.56	0.00	0.00	232.65	232.65
Average	366.01	244.51	0.00	9.87	0.00	0.00	234.63	234.63
Minimum	319.86	235.07	0.00	8.60	0.00	0.00	225.18	225.18
Maximum	522.78	267.20	0.00	10.98	0.00	0.00	258.51	258.51
GeoMean	---	---	---	---	---	---	---	---
TOTAL	---	7,580	0	306	0.00	0	7,274	7,274

Liquid Stream Quality

DATE	pH@25°C RAW	TSS (mg/L) RAW	TSS (mg/L) OUTFALL30	TSS (mg/L) OUTFALL20	TSS (mg/L) OUTFALL10 FEC	TSS (mg/L) EPEPS	TSS (mg/L) OUTFALL10 FEC	TSS (mg/L) OUTFALL10 FE
Sun 01	7.8	312			7.5		3.2	3.2
Mon 02	7.6	286			7.4		3.0	3.0
Tue 03	7.7	317			7.7		3.6	3.6
Wed 04	7.7	398			7.5		3.8	3.8
Thu 05	7.7	304			7.5		3.7	3.7
Fri 06	7.5	304			7.5		3.3	3.3
Sat 07	7.7	276			7.6		3.7	3.7
Sun 08	7.7	306			7.5		4.4	4.4
Mon 09	7.9	286			7.6		3.9	3.9
Tue 10	7.6	372			7.6		4.2	4.2
Wed 11	7.8	306			7.5		4.0	4.0
Thu 12	7.6	311			7.6		4.4	4.4
Fri 13	7.7	296			7.6		3.9	3.9
Sat 14	7.7	336			7.8		2.9	2.9
Sun 15	7.7	337			7.5		4.1	4.1
Mon 16	7.5	344			7.5		3.6	3.6
Tue 17	7.6	368			7.6		3.9	3.9
Wed 18	7.6	368			7.6		4.5	4.5
Thu 19	7.4	388			7.5		4.2	4.2
Fri 20	7.7	314			7.5		4.2	4.2
Sat 21	7.8	297			7.6		4.2	4.2
Sun 22	7.7	308			7.5		3.9	3.9
Mon 23	7.6	240			7.5		2.5	2.5
Tue 24	7.6	284			7.5		3.3	3.3
Wed 25	7.8	308			7.6		3.6	3.6
Thu 26	7.6	328			7.7		3.3	3.3
Fri 27	7.7	424			7.5		3.3	3.3
Sat 28	7.7	344			7.5		3.4	3.4
Sun 29	7.8	337			7.6		3.4	3.4
Mon 30	7.7	360			7.7		3.9	3.9
Tue 31	7.7	383			7.5		3.6	3.6
Average	7.7	---	---	---	7.6	---	3.7	3.7
Minimum	7.4	---	---	---	7.4	---	2.5	2.5
Maximum	7.9	---	---	---	7.8	---	4.5	4.5
GeoMean	---	---	---	---	---	---	---	---
TOTAL	---	---	---	---	---	---	---	---

DATE	BOD5/cBOD5 (mg/L) RAW	BOD5/cBOD5 (mg/L) OUTFALL30	BOD5/cBOD5 (mg/L) OUTFALL20	BOD5/cBOD5 (mg/L) EPEPS	BOD5/cBOD5 (mg/L) OUTFALL10 FEC	BOD5/cBOD5 (mg/L) OUTFALL10 FE
Sun 01	340				2	2
Mon 02	321				< 1	< 1
Tue 03	323				2	2
Wed 04	353				3	3
Thu 05	298				3	3
Fri 06	430				3	3
Sat 07	358				3	3
Sun 08	304				3	3
Mon 09	315				4	4
Tue 10	336				3	3
Wed 11	370				4	4
Thu 12	320				3	3
Fri 13	308				3	3
Sat 14	314				3	3
Sun 15	291				4	4
Mon 16	319				4	4
Tue 17	260				3	3
Wed 18	260				2	2
Thu 19	316				3	3
Fri 20	273				3	3
Sat 21	301				2	2
Sun 22	263				2	2
Mon 23	310				2	2
Tue 24	272				3	3
Wed 25	272				3	3
Thu 26	348				2	2
Fri 27	250				2	2
Sat 28	278				3	3
Sun 29	316				3	3
Mon 30	304				3	3
Tue 31	383				3	3
Average	311	---	---	---	3	3
Minimum	250	---	---	---	< 1	< 1
Maximum	430	---	---	---	4	4
GeoMean	---	---	---	---	---	---
TOTAL	---	---	---	---	---	---

DATE	TP (mg/L) RAW	TP (mg/L) OUTFALL30	TP (mg/L) OUTFALL20	TP (mg/L) EPEPS	TP (mg/L) OUTFALL10 FEC	TP (mg/L) OUTFALL10 FE
Sun 01	8.14				0.21	0.21
Mon 02	8.30				0.27	0.27
Tue 03	8.05				0.23	0.23
Wed 04	8.36				0.22	0.22
Thu 05	6.91				0.22	0.22
Fri 06	7.07				0.24	0.24
Sat 07	8.42				0.25	0.25
Sun 08	9.62				0.29	0.29
Mon 09	8.13				0.22	0.22
Tue 10	8.40				0.22	0.22
Wed 11	8.38				0.24	0.24
Thu 12	8.02				0.23	0.23
Fri 13	7.62				0.22	0.22
Sat 14	8.71				0.22	0.22
Sun 15	7.74				0.23	0.23
Mon 16	8.15				0.23	0.23
Tue 17	7.63				0.25	0.25
Wed 18	6.18				0.21	0.21
Thu 19	7.46				0.22	0.22
Fri 20	6.41				0.22	0.22
Sat 21	7.33				0.22	0.22
Sun 22	6.98				0.24	0.24
Mon 23	8.30				0.24	0.24
Tue 24	8.10				0.25	0.25
Wed 25	8.09				0.23	0.23
Thu 26	8.10				0.24	0.24
Fri 27	9.90				0.22	0.22
Sat 28	7.73				0.24	0.24
Sun 29	7.69				0.25	0.25
Mon 30	8.46				0.24	0.24
Tue 31	7.48				0.24	0.24
Average	7.93	---	---	---	0.23	0.23
Minimum	6.18	---	---	---	0.21	0.21
Maximum	9.90	---	---	---	0.29	0.29
GeoMean	---	---	---	---	---	---
TOTAL	---	---	---	---	---	---

DATE	NH3-N (mg/L) RAW	NH3-N (mg/L) OUTFALL30	NH3-N (mg/L) OUTFALL20	NH3-N (mg/L) EPEPS	NH3-N (mg/L) OUTFALL10 FEC	NH3-N (mg/L) OUTFALL10 FE
Sun 01	38.8				2.00	2.00
Mon 02	46.9				2.93	2.93
Tue 03	44.3				2.98	2.98
Wed 04	44.1				2.11	2.11
Thu 05	35.4				1.26	1.26
Fri 06	37.4				0.55	0.55
Sat 07	45.1				1.97	1.97
Sun 08	50.2				4.76	4.76
Mon 09	46.5				5.85	5.85
Tue 10	47.2				5.30	5.30
Wed 11	49.1				4.54	4.54
Thu 12	47.0				4.79	4.79
Fri 13	48.5				2.98	2.98
Sat 14	47.3				3.20	3.20
Sun 15	51.7				2.74	2.74
Mon 16	44.3				3.51	3.51
Tue 17	34.8				1.47	1.47
Wed 18	31.9				0.66	0.66
Thu 19	33.6				0.42	0.42
Fri 20	35.6				0.31	0.31
Sat 21	41.2				1.10	1.10
Sun 22	42.4				2.29	2.29
Mon 23	46.4				2.21	2.21
Tue 24	39.5				1.24	1.24
Wed 25	44.4				1.47	1.47
Thu 26	42.3				1.66	1.66
Fri 27	41.5				1.78	1.78
Sat 28	39.9				1.71	1.71
Sun 29	44.4				2.14	2.14
Mon 30	38.4				2.10	2.10
Tue 31	42.9				1.27	1.27
Average	42.7	---	---	---	2.36	2.36
Minimum	31.9	---	---	---	0.31	0.31
Maximum	51.7	---	---	---	5.85	5.85
GeoMean	---	---	---	---	---	---
TOTAL	---	---	---	---	---	---

DATE	un-ionized NH3-N (mg/L) OUTFAL 30	un-ionized NH3-N (mg/L) OUTFAL 20	un-ionized NH3-N (mg/L) OUTFAL 10
Sun 01			
Mon 02			
Tue 03			
Wed 04			
Thu 05			
Fri 06			
Sat 07			
Sun 08			
Mon 09			
Tue 10			
Wed 11			
Thu 12			
Fri 13			
Sat 14			
Sun 15			
Mon 16			
Tue 17			
Wed 18			
Thu 19			
Fri 20			
Sat 21			
Sun 22			
Mon 23			
Tue 24			
Wed 25			
Thu 26			
Fri 27			
Sat 28			
Sun 29			
Mon 30			
Tue 31			
Average	---	---	---
Minimum	---	---	---
Maximum	---	---	---
GeoMean	---	---	---
TOTAL	---	---	---

DATE	TKN (mg/L) RAW	TKN (mg/L) OUTFALL30	TKN (mg/L) OUTFALL20	TKN (mg/L) OUTFALL10 FEC
Sun 01	64.2			4.14
Mon 02	66.6			4.88
Tue 03	67.2			4.92
Wed 04	67.4			3.95
Thu 05	56.9			2.92
Fri 06	57.9			2.19
Sat 07	63.8			3.78
Sun 08	72.9			7.24
Mon 09	66.4			7.13
Tue 10	62.7			6.66
Wed 11	64.4			6.60
Thu 12	62.6			6.57
Fri 13	67.2			6.28
Sat 14	72.9			5.78
Sun 15	67.3			6.22
Mon 16	67.5			5.41
Tue 17	54.0			3.43
Wed 18	48.6			2.13
Thu 19	54.0			1.90
Fri 20	50.8			1.68
Sat 21	55.4			2.61
Sun 22	55.6			4.02
Mon 23	63.6			3.38
Tue 24	63.2			2.94
Wed 25	61.5			2.96
Thu 26	65.3			3.39
Fri 27	69.1			3.68
Sat 28	63.6			3.84
Sun 29	66.4			4.97
Mon 30	70.0			4.39
Tue 31	63.4			3.08
Average	63.0	---	---	4.29
Minimum	48.6	---	---	1.68
Maximum	72.9	---	---	7.24
GeoMean	---	---	---	---
TOTAL	---	---	---	---

DATE	NO2+NO3 (mg/L) RAW	NO2+NO3 (mg/L) OUTFALL30	NO2+NO3 (mg/L) OUTFALL20	NO2+NO3 (mg/L) OUTFALL10 FEC
Sun 01	94			121
Mon 02	90			110
Tue 03	87			96
Wed 04	98			96
Thu 05	96			102
Fri 06	102			107
Sat 07	91			114
Sun 08	87			99
Mon 09	99			101
Tue 10	103			101
Wed 11	99			103
Thu 12	98			110
Fri 13	102			109
Sat 14	111			109
Sun 15	100			101
Mon 16	108			103
Tue 17	98			114
Wed 18	85			177
Thu 19	171			233
Fri 20	128			178
Sat 21	105			150
Sun 22	87			110
Mon 23	108			96
Tue 24	97			98
Wed 25	89			93
Thu 26	92			98
Fri 27	96			97
Sat 28	89			100
Sun 29	84			96
Mon 30	98			90
Tue 31	90			97
Average	106.2	---	---	113.2
Minimum	84.0	---	---	90.0
Maximum	227.0	---	---	233.0
GeoMean	---	---	---	---
TOTAL	---	---	---	---

DATE	Chloride (mg/L) RAW	Chloride (mg/L) OUTFALL30	Chloride (mg/L) OUTFALL20	Chloride (mg/L) OUTFALL10 FEC
Sun 01				
Mon 02				
Tue 03				
Wed 04				
Thu 05				
Fri 06				
Sat 07				
Sun 08				
Mon 09				
Tue 10				
Wed 11				
Thu 12				
Fri 13				
Sat 14				
Sun 15				
Mon 16				
Tue 17				
Wed 18				
Thu 19				
Fri 20				
Sat 21				
Sun 22				
Mon 23				
Tue 24				
Wed 25				
Thu 26				
Fri 27				
Sat 28				
Sun 29				
Mon 30				
Tue 31				
Average	---	---	---	---
Minimum	---	---	---	---
Maximum	---	---	---	---
GeoMean	---	---	---	---
TOTAL	---	---	---	---

DATE	*E. coli* (Counts/100 mL) RAW	*E. coli* (Counts/100 mL) OUTFALL30	*E. coli* (Counts/100 mL) OUTFALL20	*E. coli* (Counts/100 mL) OUTFALL10 FEC
Sun 01	X10^6	X10^6	X10^6	FEC
Mon 02				25
Tue 03				26
Wed 04				20
Thu 05				24
Fri 06				22
Sat 07				9
Sun 08				21
Mon 09				14
Tue 10				5
Wed 11				14
Thu 12	1.9			10
Fri 13	2.5			4
Sat 14				2
Sun 15				10
Mon 16				10
Tue 17				5
Wed 18				12
Thu 19				3
Fri 20				5
Sat 21				4
Sun 22				10
Mon 23				14
Tue 24				2
Wed 25				3
Thu 26				5
Fri 27				5
Sat 28				7
Sun 29				18
Mon 30				6
Tue 31				5
Average	---	---	---	---
Minimum	1.9	---	---	2
Maximum	2.5	---	---	26
GeoMean	---	---	---	8
TOTAL	---	---	---	---

* Contact Laboratory for information about the quality assurance associated with the result.

Enhanced Primary Treatment (EPT) Usage					
Total Bypass (hrs)	EPT Usage (hrs)	% Usage	Total Bypass YTD (hrs)	EPT Usage YTD (hrs)	% Usage YTD
0	0	100%	0	0	100.00%

Report Comments

AEP Ref #	

RAW Untreated Influent into the Plant

INF Untreated wastewater from collection system
INFs Influent, screened at the Headworks 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 and Pump Station

FE Final Effluent from secondary treatment process (with biological nutrient removal). Pre-Ultraviolet disinfection.

FEC Combined pre-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 Litres)
MPN Most Probable Number

NR No result
NS No sample
IN Insufficient sample

Abhishek Bhargava (mm/dd/yyyy)
Senior Manager, Operations

Shane Harnish (mm/dd/yyyy)
Senior Manager, Analytical Operations