PROVIDING MORE EPCOR

Gold Bar Wastewater Treatment Plant
Plant Performance Report
June 2018

Digested Sludge: Total Monthly Volume (ML)	68.86

Volume of Flow (ML)

DATE	Peak Flow (ML/D)	Influent RAW	Effluent Non UV Disinfected OUTFALL 30	Effluent Non UV Disinfected OUTFALL 20	Effluent Non UV Disinfected MPW	Effluent UV Disinfected EPE/PS	Effluent UV Disinfected OUTFALL 10 FEC	Effluent UV Disinfected OUTFALL 10 FE
Fri 01	518.18	278.05	14.29	0.00	12.00	0.00	251.76	251.76
Sat 02	331.09	247.08	0.00	0.00	10.94	0.00	236.14	236.14
Sun 03	335.08	248.92	0.00	0.00	10.44	0.00	238.48	238.48
Mon 04	355.73	271.56	0.00	0.00	11.19	0.00	260.37	260.37
Tue 05	335.43	257.84	0.00	0.00	11.34	0.00	246.50	246.50
Wed 06	323.99	252.99	0.00	0.00	10.20	0.00	242.79	242.79
Thu 07	322.64	258.06	0.00	0.00	9.88	0.00	248.18	248.18
Fri 08	328.76	260.92	0.00	0.00	9.89	0.00	251.03	251.03
Sat 09	330.85	245.74	0.00	0.00	9.71	0.00	236.03	236.03
Sun 10	1,457.50	576.63	272.27	0.09	9.67	0.00	294.60	294.60
Mon 11	1,358.02	683.55	336.95	0.00	9.48	0.00	337.12	337.12
Tue 12	446.67	320.03	1.17	0.00	10.28	0.00	308.58	308.58
Wed 13	381.60	300.55	0.00	0.00	11.16	0.00	289.39	289.39
Thu 14	453.87	288.96	5.13	0.00	10.89	0.00	272.94	272.94
Fri 15	799.61	317.75	36.54	0.02	10.83	0.00	270.36	270.36
Sat 16	369.86	263.00	0.00	0.00	10.34	0.00	252.66	252.66
Sun 17	364.98	263.40	0.00	0.00	10.88	0.00	252.52	252.52
Mon 18	360.44	276.73	0.00	0.00	11.17	0.00	265.56	265.56
Tue 19	366.02	274.08	0.00	0.00	10.98	0.00	263.10	263.10
Wed 20	360.45	272.42	0.00	0.00	11.50	0.00	260.92	260.92
Thu 21	372.06	277.81	0.00	0.00	11.15	0.00	266.66	266.66
Fri 22	953.38	320.74	25.35	0.00	9.70	0.00	285.69	285.69
Sat 23	416.93	274.26	0.00	0.00	10.40	0.00	263.86	263.86
Sun 24	426.78	271.65	2.42	0.00	9.88	0.00	259.35	259.35
Mon 25	731.36	301.99	15.83	0.03	10.74	0.00	275.39	275.39
Tue 26	351.34	267.65	0.00	0.00	11.45	0.00	256.20	256.20
Wed 27	351.03	271.96	0.00	0.00	11.57	0.00	260.39	260.39
Thu 28	356.37	269.61	0.00	0.00	11.41	0.00	258.20	258.20
Fri 29	349.98	255.43	0.00	0.00	11.52	0.00	243.91	243.91
Sat 30	821.74	299.27	35.65	0.01	11.41	0.00	252.20	252.20
Average	501.06	298.95	24.85	0.01	10.73	0.00	263.36	263.36
Minimum	322.64	245.74	0.00	0.00	9.48	0.00	236.03	236.03
Maximum	1,457.50	683.55	336.95	0.09	12.00	0.00	337.12	337.12
GeoMean	---	---	---	---	---	---	---	---
TOTAL	---	8,969	746	0	322	0	7,901	7,901

Liquid Stream Quality

DATE	pH@25°C RAW	pH@25°C OUTFALL 30	pH@25°C OUTFALL 20	pH@25°C OUTFALL 10 FEC	TSS (mg/L) RAW	TSS (mg/L) OUTFALL 30	TSS (mg/L) OUTFALL 20	TSS (mg/L) EPE/PS	TSS (mg/L) OUTFALL 10 FEC	TSS (mg/L) OUTFALL 10 FE
Fri 01	7.5	7.9		7.4	333	60.5			8.5	8.5
Sat 02	7.7			7.4	316				10.6	10.6
Sun 03	7.6			7.6	334				13.6	13.6
Mon 04	7.5			7.9	328				11.4	11.4
Tue 05	7.5			7.4	332				9.8	9.8
Wed 06	7.6			7.5	388				8.3	8.3
Thu 07	7.6			7.5	408				8.8	8.8
Fri 08	7.6			7.6	376				8.3	8.3
Sat 09	7.6			7.5	348				6.4	6.4
Sun 10	7.3	7.3	7.3	7.5	628	117	320		9.5	9.5
Mon 11	7.5	7.7		7.2	204	49.3			7.1	7.1
Tue 12	7.6			7.4	254				7.0	7.0
Wed 13	7.6			7.4	374				5.4	5.4
Thu 14	7.5	7.8		7.4	342	80.7			6.8	6.8
Fri 15	7.5	7.5		7.4	402	62.3			7.4	7.4
Sat 16	7.6			7.4	349				7.0	7.0
Sun 17	7.6			7.4	232				7.5	7.5
Mon 18	7.6			7.4	308				10.6	10.6
Tue 19	7.5			7.4	288				14.0	14.0
Wed 20	7.6			7.5	328				11.4	11.4
Thu 21	7.6			7.6	312				9.6	9.6
Fri 22	7.6	7.7		7.6	512	82.0			7.1	7.1
Sat 23	7.6			7.5	368				6.6	6.6
Sun 24	7.7	8.0		7.5	368	111			6.3	6.3
Mon 25	7.6	7.7		7.5	468	72.0			7.9	7.9
Tue 26	7.7			7.5	316				5.1	5.1
Wed 27	7.6			7.4	296				7.4	7.4
Thu 28	7.5			7.4	380				5.6	5.6
Fri 29	7.6			7.5	312				8.3	8.3
Sat 30	7.5	7.5		7.5	544	47.5			9.7	9.7
Average	7.6	7.7	7.3	7.5	358	75.8	320	---	8.4	8.4
Minimum	7.3	7.3	7.3	7.2	204	47.5	320	---	5.1	5.1
Maximum	7.7	8.0	7.3	7.9	628	117	320	---	14.0	14.0
GeoMean	---	---	---	---	---	---	---	---	---	---
TOTAL	---	---	---	---	---	---	---	---	---	---

DATE	BOD_5/$cBOD_5$ RAW	BOD_5/$cBOD_5$ OUTFALL 30	BOD_5/$cBOD_5$ OUTFALL 20	BOD_5/$cBOD_5$ EPE/PS	BOD_5/$cBOD_5$ OUTFALL 10 FEC	BOD_5/$cBOD_5$ OUTFALL 10 FE	TP (mg/L) RAW	TP (mg/L) OUTFALL 30	TP (mg/L) OUTFALL 20	TP (mg/L) EPE/PS	TP (mg/L) OUTFALL 10 FEC	TP (mg/L) OUTFALL 10 FE
Fri 01	333	126			4	4	8.69	6.91			0.51	0.51
Sat 02	285				5	5	8.49				0.48	0.48
Sun 03	331				5	5	8.77				0.62	0.62
Mon 04	285				5	5	7.77				0.51	0.51
Tue 05	302				4	4	7.02				0.46	0.46
Wed 06	287				4	4	7.28				0.37	0.37
Thu 07	245				4	4	6.42				0.46	0.46
Fri 08	308				4	4	7.32				0.54	0.54
Sat 09	218				3	3	7.07				0.31	0.31
Sun 10	258	91	127		4	4	4.99	2.16	2.56		0.38	0.38
Mon 11	98	49			3	3	2.43	2.34			0.24	0.24
Tue 12	275				4	4	5.42				0.25	0.25
Wed 13	234				4	4	7.88				0.28	0.28
Thu 14	288	115			4	4	6.73	5.48			0.29	0.29
Fri 15	301	91			4	4	6.79	2.93			0.29	0.29
Sat 16	262				4	4	6.40				0.28	0.28
Sun 17	257				3	3	6.61				0.72	0.72
Mon 18	299				4	4	6.84				0.45	0.45
Tue 19	312				5	5	7.31				0.51	0.51
Wed 20	274				6	6	7.05				0.65	0.65
Thu 21	303				4	4	7.16				0.45	0.45
Fri 22	196	87			3	3	6.72	3.89			0.34	0.34
Sat 23	256				3	3	7.21				0.26	0.26
Sun 24	272	127			4	4	7.76	6.84			0.28	0.28
Mon 25	310	101			4	4	6.96	4.28			0.31	0.31
Tue 26	313				4	4	7.80				0.28	0.28
Wed 27	293				4	4	8.19				0.35	0.35
Thu 28	301				4	4	9.92				0.34	0.34
Fri 29	334				6	6	8.00				0.34	0.34
Sat 30	283	126			5	5	7.37	3.04			0.62	0.62
Average	277	101	127	---	4.1	4.1	7.15	4.21	2.56	---	0.41	0.41
Minimum	98	49	127	---	3	3	2.43	2.16	2.56	---	0.24	0.24
Maximum	334	127	127	---	6	6	9.92	6.91	2.56	---	0.72	0.72
GeoMean	---	---	---	---	---	---	---	---	---	---	---	---
TOTAL	---	---	---	---	---	---	---	---	---	---	---	---

DATE	NH_3-N (mg/L) RAW	NH_3-N (mg/L) OUTFALL 30	NH_3-N (mg/L) OUTFALL 20	NH_3-N (mg/L) EPE/PS	NH_3-N (mg/L) OUTFALL 10 FEC	NH_3-N (mg/L) OUTFALL 10 FE	TKN (mg/L) RAW	TKN (mg/L) OUTFALL 30	TKN (mg/L) OUTFALL 20	TKN (mg/L) OUTFALL 10 FEC
Fri 01	40.2	43.0			2.82	2.82	59.8	49.7		5.10
Sat 02	38.3				1.53	1.53	62.8			4.38
Sun 03	41.2				2.56	2.56	62.8			4.94
Mon 04	30.4				1.95	1.95	58.7			4.16
Tue 05	35.4				1.21	1.21	55.1			3.30
Wed 06	32.9				1.48	1.48	54.3			3.28
Thu 07	32.1				1.36	1.36	52.2			3.50
Fri 08	33.2				1.59	1.59	55.8			3.22
Sat 09	28.9				1.31	1.31	54.2			3.07
Sun 10	14.2	11.9	11.1		0.38	0.38	30.3	18.6	17.1	2.29
Mon 11	11.9	16.8			0.23	0.23	22.4	21.4		1.48
Tue 12	29.5				5.46	5.46	43.4			7.24
Wed 13	29.3				3.90	3.90	53.3			5.67
Thu 14	27.5	34.3			2.11	2.11	52.2	54.4		3.64
Fri 15	32.0	28.4			3.20	3.20	54.0	34.7		5.03
Sat 16	33.2				1.89	1.89	51.8			3.86
Sun 17	36.1				2.22	2.22	57.0			4.26
Mon 18	37.4				1.46	1.46	57.4			3.65
Tue 19	38.1				1.44	1.44	58.4			3.66
Wed 20	37.4				1.14	1.14	57.4			3.85
Thu 21	35.6				1.16	1.16	56.3			3.21
Fri 22	29.1	27.6			1.47	1.47	51.7	37.2		3.53
Sat 23	39.6				1.53	1.53	56.5			3.47
Sun 24	37.4	46.8			1.89	1.89	54.9	58.1		3.23
Mon 25	34.2	29.9			1.58	1.58	51.1	41.5		3.42
Tue 26	37.1				1.16	1.16	60.7			3.02
Wed 27	41.2				2.51	2.51	63.5			4.47
Thu 28	45.8				2.74	2.74	64.2			4.62
Fri 29	43.0				1.32	1.32	58.3			3.35
Sat 30	35.6	28.8			1.96	1.96	51.3	33.6		3.66
Average	33.9	29.7	11.1	---	1.89	1.89	54.1	38.8	17.1	3.85
Minimum	11.9	11.9	11.1	---	0.23	0.23	22.4	18.6	17.1	1.48
Maximum	45.8	46.8	11.1	---	5.46	5.46	64.2	58.1	17.1	7.24
GeoMean	---	---	---	---	---	---	---	---	---	---
TOTAL	---	---	---	---	---	---	---	---	---	---

DATE	NO_3+NO_2 (mg/L) RAW	NO_3+NO_2 (mg/L) OUTFALL 30	NO_3+NO_2 (mg/L) OUTFALL 20	NO_3+NO_2 (mg/L) OUTFALL 10 FEC	Chloride (mg/L) RAW	Chloride (mg/L) OUTFALL 30	Chloride (mg/L) OUTFALL 20	Chloride (mg/L) OUTFALL 10 FEC	*E. coli* (Counts/100 mL) RAW	*E. coli* (Counts/100 mL) OUTFALL 30	*E. coli* (Counts/100 mL) OUTFALL 20	*E. coli* (Counts/100 mL) OUTFALL 10 FEC
Fri 01	0.27			11.5	76.7	85.8		82.8		1.4		13
Sat 02				10.9	70.0			77.6				10
Sun 03				10.7	70.3			78.7				22
Mon 04				9.66	82.3			72.8				9
Tue 05				7.27	75.7			77.8				23
Wed 06	< 0.01			6.83	76.4			81.5				6
Thu 07				6.24	71.1			84.2				13
Fri 08				6.56	75.0			82.8				6
Sat 09				6.89	69.9			80.6				14
Sun 10	0.59	0.28		5.98	45.9	45.6	36.0	73.1		0.8	0.4	11
Mon 11	2.48			3.10	41.9	55.8		46.3		0.5		1
Tue 12				6.02	77.9			68.5		1.5		22
Wed 13	< 0.01			6.02	78.0			80.2				10
Thu 14	0.04			5.87	80.2	92.1		80.8	3.4	2.1		31
Fri 15	0.12			7.11	81.7	73.2		85.8		1.6		51
Sat 16				8.01	73.2			81.0				25
Sun 17				11.7	62.1			80.5				25
Mon 18				10.6	83.7			79.9				70
Tue 19				8.52	82.8			89.2	2.8			30
Wed 20	< 0.15			10.2	86.4			89.2				24
Thu 21				9.54	67.6			93.7				45
Fri 22	0.58			9.05	67.4	65.8		84.9		3.7		29
Sat 23				10.0	75.5			81.1				11
Sun 24	0.27			10.4	72.7	81.9		79.1		2.9		21
Mon 25	0.04			10.1	72.3	82.4		80.6		2.4		23
Tue 26				10.7	80.1			84.2				21
Wed 27	0.03			12.3	82.1			87.0				33
Thu 28				11.9	78.3			89.0				23
Fri 29				10.6	76.6			83.9				13
Sat 30	2.06			10.3	67.3	59.3		87.0		2.1		8
Average	0.03	0.72	0.28	8.82	73.4	71.3	36.0	80.8	---	---	---	---
Minimum	< 0.01	0.04	0.28	3.10	41.9	45.6	36.0	46.3	2.8	0.5	0.4	1
Maximum	0.03	2.48	0.28	12.3	86.4	92.1	36.0	93.7	3.4	3.7	0.4	70
GeoMean	---	---	---	---	---	---	---	---	3.1	1.7	0.4	17
TOTAL	---	---	---	---	---	---	---	---	---	---	---	---

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

Enhanced Primary Treatment (EPT) Usage

Total Bypass (hrs)	EPT Usage (hrs)		Total Bypass YTD (hrs)	EPT Usage YTD	% Usage
53	53	100%	201	201	100.00%

Report Comments

1.	OUTFALL 10 - June 14, 2018: Recommended holding time was exceeded prior to analysis by 20 hours.
2.	OUTFALL 10 - June 15, 2018: Recommended holding time was exceeded prior to analysis by 2 hours.
3.	OUTFALL 30 - June 14, 2018: Recommended holding time for respective grab samples was exceeded prior to analysis by 14 hours and 12 hours.
4.	OUTFALL 30 - June 22, 2018: Recommended holding was exceeded prior to analysis.
5.	OUTFALL 30 - June 24, 2018: Recommended holding was exceeded prior to analysis by 18 hours.
6.	RAW - June 14, 2018: Recommended holding was exceeded prior to analysis by 20 hours.
7.	RAW - June 22, 2018: Recommended holding was exceeded prior to analysis.

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).

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 Litre)
MPN Most Probable Number
NR No Result
NS No Sample
INS Insufficient Sample

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

07/31/2018
Steve Craik (mm/dd/yyyy)
Director, Quality Assurance & Environment