



February 15, 2024

Mr. Don Turner  
Environmental Project Officer  
Water Security Agency  
Suite 300 – 2365 Albert Street  
Regina, SK S4P 4K1

Dear Mr. Turner:

RE: Monthly Report: **January 2024**

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In compliance with the City of Regina “Permit to Operate a Sewage Works” # 0050853-08-00 please find attached the monthly report for January 2024.

I trust this meets with your approval, should you have any questions please do not hesitate to contact me directly at (306) 519-1178 or Rui Li at (306) 535-5874.

Yours truly,

A handwritten signature in blue ink, appearing to read "Rynette Moore-Guillaume".

Rynette Moore-Guillaume  
Senior Manager, Capital, Growth & Operations  
EPCOR Water Services

# City of Regina - Wastewater Treatment Plant

January 2024																		
Final Effluent Results											Permit# 00050853-08-00							
Date	Flow to Creek	Total Coliform	<i>E. coli</i>	Enterococci	Dissolved Oxygen (Field Test)	Temp. (Field Test)	pH (Field Test)	Chloride (Field Test)	Total Phosphorus	pH @15±1°C	Total Suspended Solids	CBOD	Ammonia Nitrogen	Unionized Ammonia @15±1°C	Total Kjeldahl Nitrogen	Total Nitrogen		
	(ML)	(MPN /100mL)			(mg/L)	(°C)	(SU)	(mg/L)	(mg P/L)	(SU)	(mg/L)	(mg/L)	(mg N/L)	(mg N/L)	(mg N/L)	(mg N/L)		
01	59.17	143	2	3	7.40	15.5		214	0.51	7.18	7.6	3.8	0.72	<	0.030	3.4	9.4	
02	61.19	158	2		7.35	15.5		210	0.63	7.27	12.2	5.4	0.49	<	0.030	3.6	9.0	
03	60.81	158	<	1	7.45	15.2		218	0.58	7.17	10.0	3.8	<	0.30	<	0.030	3.4	8.6
04	60.77	152		4	7.41	15.2		209	0.56	7.28	8.4	4.3	<	0.67	<	0.030	3.4	9.1
05	60.87	136		1	7.50	15.3			0.52		10.0		<	0.30		3.3	8.9	
06	61.37				7.47	15.2			0.59		12.0	3.8		0.65		3.9	9.0	
07	63.56				7.47	15.2		214	0.66	7.18	18.4	5.0		1.01	<	0.030	4.0	10.2
08	62.12	165		4	6.75	15.2		212	0.70	7.21	13.8	4.8	<	0.30	<	0.030	3.0	10.9
09	59.91	165		4	8.13	14.6		223	0.75	7.18	14.8	4.9	<	0.30	<	0.030	3.2	11.6
10	57.26	158		7	8.23	13.7		218	0.72	7.16	13.6	4.6	<	0.30	<	0.030	3.0	12.3
11	57.39	165		8	8.25	13.3		215	0.65	7.20	11.8	4.5	<	0.30	<	0.030	2.8	13.6
12	57.89	172		4	8.27	12.8			0.72		14.4		<	0.30		3.0	13.1	
13	60.37				8.20	12.6			0.70		13.6	5.0	<	0.30		2.9	12.2	
14	62.77				8.29	13.0		211	0.70	7.17	14.8	5.6	<	0.30	<	0.030	3.1	11.8
15	63.34	179		11	8.13	13.1		201	0.83	7.15	16.4	5.8	<	0.30	<	0.030	3.2	11.6
16	63.48	205		2	7.65	13.5		197	0.74	7.13	14.0	4.9	<	0.30	<	0.030	3.1	12.6
17	63.57	187		4	7.58	14.0		198	0.67	7.12	13.8	6.4	<	0.30	<	0.030	3.2	13.0
18	63.45	146		2	7.88	13.9		194	0.70	7.13	14.8	4.5	<	0.30	<	0.030	3.0	12.4
19	62.74	152		8	7.88	14.2			0.62	7.13	12.8	4.2	<	0.30	<	0.030	3.2	14.1
20	63.44				8.02	14.2			0.62		12.2	3.2	<	0.30		3.1	12.6	
21	65.47				7.62	14.9		206	0.51	7.18	9.8	2.9	<	0.30	<	0.030	2.6	11.9
22	63.76	36	<	1	7.57	14.7	7.0	212	0.57	7.27	11.4	3.9	<	0.30	<	0.030	3.0	11.7
23	62.17	43		3	7.72	14.7	7.0	221	0.46	7.27	9.8	3.6	<	0.30	<	0.030	2.3	10.7
24	62.84	44		1	7.72	15.1	7.6	222	0.42	7.25	8.6	3.2	<	0.30	<	0.030	2.6	10.7
25	62.24	28	<	1	7.79	15.1	7.2	226	0.41	7.24	9.0	2.9	<	0.30	<	0.030	2.4	11.2
26	60.45	52	<	10	7.81	15.3	7.0		0.37	7.27	7.6	3.1	<	0.30	<	0.030	2.2	11.2
27	61.55				7.83	15.2	7.5		0.37		6.6	2.8	<	0.30		2.0	11.5	
28	62.84				7.88	15.3	7.2	228	0.36	7.28	6.6	2.4	<	0.30	<	0.030	2.5	11.4
29	62.33	10	<	10	7.57	15.3	7.1	228	0.43	7.28	8.0	2.5	<	0.30	<	0.030	2.5	10.7
30	63.61	10	<	10	7.84	15.4	7.1	253	0.42	7.20	7.3	2.6	<	0.30	<	0.030	2.6	11.3
31	63.04	19	<	1	7.77	15.2	7.2	280	0.40	7.37	8.4	2.5	<	0.30	<	0.030	2.8	10.4
Sum	1915.77																	
Avg	61.80				7.76	14.6	7.2	218	0.58	7.21	11	4	0.37	<	0.030	3.0	11	
Min	57.26				6.75	12.6	7.0	194	0.36	7.12	6.6	2.4	<	0.30	<	0.030	2.0	8.6
Max	65.47			11	8.29	15.5	7.6	280	0.83	7.37	18.4	6.4	1.01	<	0.030	4.0	14.1	
Permit Limits					≤1,000				≤0.75		≤15	≤15	≤10	≤1.24			≤14	

***E. coli* Geometric Mean = 3 MPN/100mL, Limit = 200 MPN/100mL**

**Plant Notes:**

No comments

**WSA Notes:**

WSA is aware of missing pH (field) data for Jan 1-21

Jan 6, 7, 13-19, 24, 25, 27, 28 - CBOD results qualified. The blank exceeded acceptance criterias.

Jan 26, 29, 30 - Total coliform and *E.coli* tests conducted by an external accredited laboratory.

## Creek Monthly Report to Water Security Agency

Tuesday, January 23, 2024

Permit# 00050853-08-00

Test Description	Riske's Crossing	Final Effluent	Sidmar Crossing	Wascana above the Qu'Appelle	Qu'Appelle above the Wascana	Lumsden
Dissolved Oxygen (Field Test)	10.08	7.72	9.89	8.6	8.9	6.7
pH (Field Test)	6.73	7.0	7.15	6.96	7.30	6.99
Temperature (Field Test)	0.1	14.7	5.7	0.3	0.6	0.9
pH at 15±1°C	7.33	7.27	7.23	7.12	7.53	7.30
Total Suspended Solids	10.3	9.8	23.4	41.0	10.8	12.9
Carbonaceous Biochemical Oxygen Demand	<2.0	3.6	<2.0	<2.0	<2.0	<2.0
Total Phosphorus	0.30	0.46	0.30	0.33	0.07	0.13
Total Kjeldahl Nitrogen	4.7	2.3	2.4	2.8	0.6	0.9
Ammonia Nitrogen	2.65	<0.30	0.32	0.68	<0.30	0.22
Un-ionized Ammonia	<0.030		<0.030	<0.030	<0.030	<0.030
Nitrate Nitrogen	0.49	8.38	9.35	10.40	<0.25	4.54
Total Nitrogen	5.0	10.7	11.8	13.3	0.7	5.4
Total Alkalinity	471	155	155	305	194	186
Carbonate	0	0	0	0	0	0
Bicarbonate	575	190	189	373	236	277
Chloride	605	221	214	395	23	109
Total Coliform	703	43	4,880	326	291	365
<i>E. coli</i>	155	3	2,280	10	16	13
Enterococci	25	4	866	<1	3	18
Total Hardness*	758	350	362	643	249	297
Calcium*	164	81	84	149	57	68
Magnesium*	85	36	37	66	26	31
Potassium*	30	19	18	37	6.3	12
Sodium*	399	177	178	314	50	102
Sulfate*	420	270	280	490	130	190
Fluoride*	0.39	0.18	0.16			
Total Dissolved Solids*	1930	911	935	1680	440	642
Conductivity at 25°C*	3320	1570	1580	2720	707	1080
Mercury*		0.000004				
Aluminum*		0.024				
Antimony*		0.0007				
Arsenic*		0.0012				
Barium*		0.063				
Beryllium*		<0.0001				
Boron*		0.31				
Cadmium*		0.00002				
Chromium*		<0.0005				
Cobalt*		0.0003				
Copper*		0.018				
Iron*		0.07				
Lead*		0.0009				
Manganese*		0.15				
Molybdenum*		0.0100				
Nickel*		0.0019				
Selenium*		0.0038				
Silver*		<0.00005				
Strontium*		0.48				
Thallium*		<0.0002				
Tin*		0.0005				
Titanium*		<0.0005				
Uranium*		0.0005				
Vanadium*		0.0004				
Zinc*		0.051				

**Notes:**

\* Tests conducted by an external accredited laboratory.

Results are in mg/L except total coliforms, *E. coli*, enterococci (MPN/100mL), temperature (°C), conductivity (µS/cm) and pH (SU).