

Composite Effluent Quality Monitoring Results (1-year Operation of TSTP)

Date	Monitoring Station	Replicate	Temperature*	pH	DO	DO Saturation	Salinity	Turbidity	Suspended Solids	Ammonia Nitrogen	Total Nitrogen	Total Inorganic Nitrogen	Total Phosphorus	E.Coli/100ml	Biochemical Oxygen Demand^A
			°C		mg/L										
9/1/2020	Effluent	1	6.5	8.2	86.2	9.81	0.21	2.4	6	8.22	16.3	14.2	1.58	200	7
		2	6.5	8.2	86.1	9.74	0.21	2.4	-	-	-	-	-	-	-
9/2/2020	Effluent	1	6.0	7.9	86.2	9.06	0.22	2.6	4	3.34	15.3	13.2	1.62	220	6
		2	6.0	7.9	85.5	9.01	0.22	2.6	-	-	-	-	-	-	-
9/3/2020	Effluent	1	6.1	7.8	86.6	8.40	0.22	2.5	6	6.13	15.9	15.1	1.99	400	6
		2	6.1	7.8	85.9	8.32	0.22	2.6	-	-	-	-	-	-	-
9/4/2020	Effluent	1	6.2	7.9	86.7	8.34	0.22	2.4	6	3.49	15.8	15.8	2.16	300	6
		2	6.2	7.9	86.0	8.25	0.22	2.4	-	-	-	-	-	-	-
9/5/2020	Effluent	1	6.1	7.8	82.1	7.96	0.22	2.6	5	4.15	16.1	15.4	1.88	110	3
		2	6.1	7.8	81.4	7.88	0.22	2.6	-	-	-	-	-	-	-
9/6/2020	Effluent	1	6.0	7.8	86.8	9.01	0.22	2.8	5	4.33	15.8	15	2.03	65	5
		2	6.0	7.8	85.9	8.89	0.22	2.7	-	-	-	-	-	-	-
9/7/2020	Effluent	1	6.6	8.0	77.0	9.40	0.21	2.1	6	4.35	16.9	15.9	2.18	120	5
		2	6.7	8.0	76.2	9.32	0.22	2.1	-	-	-	-	-	-	-
9/8/2020	Effluent	1	6.3	8.0	75.4	9.25	0.16	2.8	5	3.1	13.3	12.1	1.45	110	4
		2	6.2	8.0	73.3	9.18	0.14	2.9	-	-	-	-	-	-	-
9/9/2020	Effluent	1	6.1	8.2	87.4	10.06	0.22	2.7	5	4.27	12.7	12.1	1.59	99	4
		2	6.1	8.2	86.2	9.97	0.22	2.8	-	-	-	-	-	-	-
9/10/2020	Effluent	1	6.1	8.1	86.6	9.88	0.22	2.6	5	4.46	11.3	10.7	1.21	93	5
		2	6.1	8.1	86.0	9.82	0.22	2.6	-	-	-	-	-	-	-
9/11/2020	Effluent	1	6.3	8.0	79.4	9.96	0.21	2.6	5	5.48	13.7	12.9	1.42	20	5
		2	6.5	8.0	78.3	9.81	0.22	2.7	-	-	-	-	-	-	-
9/12/2020	Effluent	1	6.0	7.8	80.3	9.98	0.25	2.9	5	4.61	12.3	11.8	1.54	81	3
		2	5.9	7.8	79.2	9.90	0.23	2.8	-	-	-	-	-	-	-
9/13/2020	Effluent	1	6.1	7.9	79.8	9.33	0.24	2.6	9	9.36	12	11.1	1.38	270	8
		2	6.1	7.9	77.5	9.26	0.24	2.6	-	-	-	-	-	-	-
9/14/2020	Effluent	1	6.0	8.2	87.3	9.86	0.21	2.5	6	9.73	15.2	14.3	0.98	400	4
		2	6.0	8.2	87.0	9.93	0.21	2.4	-	-	-	-	-	-	-
9/15/2020	Effluent	1	6.0	8.2	87.0	9.93	0.21	2.4	5	4.6	12.2	11.4	1.37	520	5
		2	5.9	8.2	87.2	9.92	0.2	2.4	-	-	-	-	-	-	-
9/16/2020	Effluent	1	6.1	8.2	83.4	9.82	0.22	2.5	6	4.96	9.3	8.04	1.01	150	4
		2	6.1	8.2	82.5	9.73	0.22	2.5	-	-	-	-	-	-	-
9/17/2020	Effluent	1	6.2	8.1	86.4	10.22	0.22	2.4	3	5.66	12.2	11.2	1.2	220	5
		2	6.2	8.1	86.0	10.18	0.22	2.4	-	-	-	-	-	-	-
9/18/2020	Effluent	1	6.2	8.2	86.4	10.21	0.22	2.7	4	5.91	11.2	9.74	1.25	65	5
		2	6.2	8.2	85.8	10.17	0.22	2.8	-	-	-	-	-	-	-
9/19/2020	Effluent	1	6.1	8.1	82.4	9.71	0.22	2.5	6	5.58	11.7	10.4	1.45	45	8
		2	6.1	8.2	81.5	9.66	0.22	2.5	-	-	-	-	-	-	-
9/20/2020	Effluent	1	-	-	-	-	-	-	-	-	-	-	-	-	-
		2	-	-	-	-	-	-	-	-	-	-	-	-	-
9/21/2020	Effluent	1	-	-	-	-	-	-	-	-	-	-	-	-	-
		2	-	-	-	-	-	-	-	-	-	-	-	-	-
9/22/2020	Effluent	1	6.0	8.1	86.3	10.23	0.21	2.4	7	8.65	14.4	13.4	1.44	580	6
		2	6.1	8.1	86.1	10.21	0.21	2.4	-	-	-	-	-	-	-
9/23/2020	Effluent	1	6.1	8.2	89.4	10.33	0.22	2.7	3	7.34	13.6	12.9	1.18	130	4
		2	6.1	8.2	88.2	10.21	0.22	2.6	-	-	-	-	-	-	-
9/24/2020	Effluent	1	6.1	8.3	87.4	10.09	0.22	2.8	5	8.2	14.7	13.5	1.76	180	4
		2	6.1	8.3	87.6	10.05	0.22	2.9	-	-	-	-	-	-	-
9/25/2020	Effluent	1	7.6	7.4	78.9	9.18	0.43	2.6	9	7.09	14.3	13	1.62	300	6
		2	7.5	7.4	78.4	9.10	0.43	2.5	-	-	-	-	-	-	-
9/26/2020	Effluent	1	7.0	7.5	78.6	9.41	0.59	2.5	4	8.44	15.2	13.4	1.99	530	4
		2	7.0	7.5	77.4	9.26	0.59	2.4	-	-	-	-	-	-	-
9/27/2020	Effluent	1	6.3	7.9	76.2	9.05	0.22	2.5	4	6.73	16.9	16.6	1.62	130	4
		2	6.5	7.9	74.4	8.98	0.23	2.8	-	-	-	-	-	-	-
9/28/2020	Effluent	1	6.2	8.0	86.2	10.07	0.22	2.6	4	8.03	15.4	15.3	1.92	110	4
		2	6.2	8.0	85.4	10.13	0.22	2.6	-	-	-	-	-	-	-
9/29/2020	Effluent	1	6.1	7.8	84.2	10.11	0.22	0.6	4	6.28	14.7	14.4	1.68	93	5
		2	6.1	7.8	83.6	10.03	0.22	0.7	-	-	-	-	-	-	-
9/30/2020	Effluent	1	6.2	7.9	86.4	10.24	0.22	2.4	3	5.9	14.2	13.3	1.84	120	2
		2	6.2	7.9	86.6	10.19	0.22	2.3	-	-	-	-	-	-	-

Action Level	20	-	28.6	-	3.3	664	13.3
Limit Level	40	-	57.1	-	6.6	996	26.6

A 24-hour flow-weighted composite effluent sample was collected and mixed.

* Effluent sample was collected by refrigerated autosampler. The collected samples were kept in low temperature during 24-hr sampling period.

^BOD5 tested with nitrification inhibitor

#Effluent quality monitoring was suspended from 20 September 13:00 – 21 September 14:00 due to power failure of the equipment. The effluent samples on 20 and 21 September were discarded due to in-completed samples collected.