

PH WWTP 2017 Q4 Effluent Water Quality Data

Table 1– 2017 October to December Toxicity Results

WNSL-W1-2311.01/2021 Appendix B.1 Phase 1 Release Limits for Liquid Effluent		Monthly Results from Sample Analysis		
Parameter	Monthly Average Limits	2017 October	2017 November	2017 December
Toxicity Testing	Effluent cannot be toxic	PASS	PASS	PASS

Table 2– 2017 October to December Effluent Results

Parameter	Units	Design Objectives	Action Level (weekly)	Maximum Weekly Results			Monthly Average		
				Oct	Nov	Dec	Oct	Nov	Dec
Radium-226	Bq/L	0.37	0.05	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Total Arsenic (As)	ug/L	41	50	9.2	8.1	8.8	8.5	6.0	7.5
Total Cadmium (Cd)	ug/L	0.33	1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Total Cobalt (Co)	ug/L	9	5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Total Copper (Cu)	ug/L	24	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Total Molybdenum (Mo)	ug/L	730	50	4.2	4.1	3.8	3.9	2.7	3.2
Total Phosphorus (P)	mg/L	0.1	0.35	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Total Selenium (Se)	ug/L	10	20	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Total Thallium (Tl)	ug/L	8	0.5	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Total Uranium (U)	ug/L	150	100	7.2	6.9	4.6	6.7	4.4	3.8
Total Vanadium (V)	ug/L	42	5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Total Ammonia-N	mg/L	2.9	5.75	0.01	0.24	0.16	0.01	0.17	0.13
Nitrite (NO2)	mg/L	0.6	1.5	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Nitrate (NO3)	mg/L	127.84	75	5.67	3.19	3.19	5.56	2.55	2.53
pH	pH	6-9	<6.5 or >8.5	7.37	7.74	7.56	7.35	7.64	7.53
Total Suspended Solids	mg/L	15	15	<1	<1	<1	<1	<1	<1

Notes:

“<” denotes results were below minimum detection limits