

**EF41 - NON-CHROME SLUDGE TESTING RESULTS - 2021**

Approved By: General Manager

Version: 1

Issue Date: 24 March 2021

Review Date: 24 March 2024



\*Not Tested (NT) No Sample (NS)

ANALYSIS	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	HIGH	LOW	AVE
pH - pH Units	7.3	6.2	7.9	7.97	6.95	6.96	12.26	12.19	9.73				12.26	6.2	8.61
Electrical Conductivity - µS/cm	7180	8980	8140	9180	7500	8920	4980	6640	5140				9180	4980	7406.67
Total Kjeldahl Nitrogen - mg/L	487	674	653	700	640	560	590	600	560				700	487	607.11
Total Phosphorus - mg/L	28.3	36.7	15.6	12	34	44	45	9.9	30				44	9.9	26.31
Total Suspended Solids - mg/L	1430	6040	1320	2200	2100	8100	3400	1200	5200				8100	1200	3443.33
Total Dissolved Solids (grav) - mg/L	5900	5100	6680	5800	8900	7000	7200	5600	6000				8900	5100	6373
BOD - mg/L	3590	4080	4110	6000	9700	7600	4200	4200	5700				9700	3590	5464.44
COD - mgO <sub>2</sub> /L	11400	8040	10800	8600	14900	16100	5200	6800	9300				16100	5200	10126.67
Nitrate, NO <sub>3</sub> - mg/L	3.59	2.61	0.22	0.005	1	0.5	0.32	0.35	1				3.59	0.005	1.07
Oil & Grease (LLE) - mg/L	913	190	548	5100	8860	2370	481	344	185				8860	185	2110.11
Total S (Sulphur = Sulphate + Sulphite + Sulphide)	329	556	314	280	300	490	180	250	320				556	180	335.44
Chloride - mg/L	1082	914	618	1300	860	1200	1900	2000	1100				2000	618	1219.33
Ammonia as N - mg/L	186	426	145	700	630	410	140	99	140				700	99	319.56
Sodium - mg/L	1051	1149	1098	1270	1020	1200	1190	1140	1090				1270	1020	1134.22
Potassium - mg/L	101	52.8	91.4	110	77	100	93	99	110				110	52.8	92.69
Calcium - mg/L	137	217	623	160	310	220	410	160	360				623	137	288.56
Magnesium - mg/L	30.9	131	27	34	240	66	1.1	0.18	11				240	0.18	60.13
Manganese - mg/L	0.297	0.928	0.754	0.29	1.5	2	0.33	0.11	1.2				2	0.11	0.82
Chromium III - mg/L	0.2	0.36	0.15	1	5	230	48	1	9.9				230	0.15	32.85
Chromium VI - mg/L	0.1	0.01	0.1	1	0.002	1	1	0.002	1				1	0.002	0.47
SAR	21	15	12	23.8	10.6	18.2	16.1	576	15.4				576	10.6	78.68
Sulphate, SO <sub>4</sub> - mg/L	744	790	564	740	840	830	480	450	900				900	450	704.22
Nitrogen Total - mg/L	488	674	653	700	640	560	590	600	560				700	488	607.22
Total Solids - %	15	1.9	1.4	0.8	2	1.8	1	0.9	1.5				15	0.8	2.92
Arsenic - mg/Kg	5	24	21	5	5	6	9.3	5	5				24	5	9.48
Cadmium - mg/Kg	1	12	10	0.5	0.5	2	0.5	0.5	0.5				12	0.5	3.06
Copper - mg/Kg	5	24	21	1	1	3.5	4.5	1	1				24	1	6.89
Lead - mg/Kg	5	24	21	2	2	17.3	3.1	2	2				24	2	8.71
Mercury - mg/Kg	0.1	0.9	1	2	2	1	0.1	0.1	0.1				2	0.1	0.81
Nickel - mg/Kg	2	24	21	1	1	2	1	1	1				24	1	6.00
Zinc - mg/Kg	5	29	64	5	5	42.2	27	5	5				64	5	20.80
Iron - mg/Kg	80	140	50	3.4	9.1	7.66	42.4	4.6	12.2				140	3.4	38.82