

Lindsay Ops Leachate		Exceeds Bylaw Value Exceeds PWQO Value			
Parameters	CKL Sewer Bylaw Limits (mg/L)	Provincial Water Quality Objectives (mg/L)	Jan. Results (mg/L)	Feb. Results (mg/L)	Mar. Results (mg/L)
Hardness (CaCO3)	N/A	N/A	593	596	544
Alkalinity (CaCO3)	N/A	N/A	609	599	601
Biochemical Oxygen Demand (BOD)	300	N/A	<3	19	8
TDS	N/A	N/A	991	1005	972
Dissolved Organic Carbon	N/A	N/A	13.1	13.4	13.5
COD	N/A	N/A	73	62	63
Chloride	N/A	N/A	176	199	198
Ammonia (N) - Total	N/A	1.11	17.6	17.6	16.9
Fluoride	10	N/A	0.2	0.1	< 0.1
Phenolic, 4AAP	1	0.001	0.012	<0.002	< 0.002
Sulphate	N/A	N/A	45	42	48
Nitrite	N/A	N/A	<0.05	<0.05	< 0.05
Nitrate	N/A	N/A	0.08	0.15	0.18
Kjeldahl Nitrogen - Total	50	N/A	19.7	20.5	20.8
Aluminum - Total	50	0.075*	0.27	0.12	0.12
Antimony - Total	5	0.02	<0.0005	<0.0001	< 0.0005
Arsenic - Total	1	0.1	0.0024	0.0013	0.0008
Barium	N/A	N/A	0.331	0.297	0.253
Beryllium	N/A	1.1**	<0.002	<0.002	< 0.002
Boron	N/A	0.2	0.382	0.426	0.37
Cadmium - Total	0.7	0.0002	<0.00007	<0.000015	< 0.000070
Calcium	N/A	N/A	179	175	160
Chromium - Total	2.8	0.0099	0.017	0.011	0.012
Cobalt - Total	5	0.0009	0.0013	0.007	0.0013
Copper - Total	2	0.005	0.0042	0.0011	0.0011
Iron	N/A	0.3	27.7	11	5.64
Lead - Total	1	0.005	0.0025	0.00012	0.0002
Magnesium	N/A	N/A	35.3	38.6	35.1
Manganese - Total	5	N/A	0.45	0.363	0.355
Mercury - Total	0.01	0.0002	<0.00002	<0.00002	< 0.00002
Molybdenum - Total	5	0.04	<0.0005	0.0002	< 0.0005
Nickel - Total	2	0.025	0.01	0.01	0.01
Potassium	N/A	N/A	18.1	21.3	19.1
Phosphorus	N/A	N/A	<0.1	<0.1	< 0.1
Phosphorus - Total	10	0.01	0.05	0.03	0.03
Selenium - Total	1	0.1	<0.005	<0.0001	< 0.005
Silver - Total	0.4	0.0001	<0.0001	<0.0001	< 0.0001
Sodium	N/A	N/A	121	136	123
Strontium	N/A	10 bq/L	0.64 mg/L	0.715 mg/L	0.622
Thallium	N/A	0.0003	<0.0003	<0.00005	< 0.0003
Vanadium	N/A	0.006	0.0018	0.0009	0.0008
Zinc - Total	2	0.03	0.023	0.009	0.03
Benzene	0.01	0.1	0.0023	0.0007	0.0006
Toluene	0.02	0.0008	<0.0005	<0.0005	<0.0005
Ethylbenzene	0.06	0.008	0.0027	<0.0005	<0.0005
Xylene, m, p -	N/A	N/A	0.0042	<0.001	<0.001
Xylene, o -	N/A	0.04	0.0005	<0.0005	<0.0005
Xylene, m, p, o -	N/A	N/A	0.0042	<0.0011	<0.0011

Parameters	Limits	Provincial Water Quality Objectives	Jan. Results	Feb. Results	Mar. Results
pH (at 25 °C)	6.0 - 9.5	6.5 - 8.5	7.34	7.68	7.6
Conductivity (at 25 °C)	N/A	N/A	1750 µm ho/cm	1780 µm ho/cm	1790 µmho/cm
Conductivity (calculated)	N/A	N/A	1650 µm ho/cm	1720 µm ho/cm	1664 µmho/cm
Anion Sum	N/A	N/A	18.1 meq/L	18.5 meq/L	18.6 meq/L
Cation Sum	N/A	N/A	20.3 meq/L	20.2 meq/L	18.2 meq/L
% Difference	N/A	N/A	5.77%	4.51%	1.09%
Ion Ratio (AS/CS)	N/A	N/A	0.891	0.914	1.02
Sodium Adsorption Ratio	N/A	N/A	2.16	2.42	2.29
TDS (calc.) / EC (actual)	N/A	N/A	0.567	0.565	0.542
Langelier Index (at 25°C)	N/A	N/A	0.875	1.19	1.08