

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)
Hardness (CaCO3)	N/A	N/A	593	596
Alkalinity (CaCO3)	N/A	N/A	609	599
Biochemical Oxygen Demand (BOD)	300	N/A	<3	19
TDS	N/A	N/A	991	1005
Dissolved Organic Carbon	N/A	N/A	13.1	13.4
COD	N/A	N/A	73	62
Chloride	N/A	N/A	176	199
Ammonia (N) - Total	N/A	1.11	17.6	17.6
Fluoride	10	N/A	0.2	0.1
Phenolic, 4AAP	1	0.001	0.012	<0.002
Sulphate	N/A	N/A	45	42
Nitrite	N/A	N/A	<0.05	<0.05
Nitrate	N/A	N/A	0.08	0.15
Kjeldahl Nitrogen - Total	50	N/A	19.7	20.5
Aluminum - Total	50	0.075*	0.27	0.12
Antimony - Total	5	0.02	<0.0005	<0.0001
Arsenic - Total	1	0.1	0.0024	0.0013
Barium	N/A	N/A	0.331	0.297
Beryllium	N/A	1.1**	<0.002	<0.002
Boron	N/A	0.2	0.382	0.426
Cadmium - Total	0.7	0.0002	<0.00007	<0.000015
Calcium	N/A	N/A	179	175
Chromium - Total	2.8	0.0099	0.017	0.011
Cobalt - Total	5	0.0009	0.0013	0.007
Copper - Total	2	0.005	0.0042	0.0011
Iron	N/A	0.3	27.7	11
Lead - Total	1	0.005	0.0025	0.00012
Magnesium	N/A	N/A	35.3	38.6
Manganese - Total	5	N/A	0.45	0.363
Mercury - Total	0.01	0.0002	<0.00002	<0.00002
Molybdenum - Total	5	0.04	<0.0005	0.0002
Nickel - Total	2	0.025	0.01	0.01
Potassium	N/A	N/A	18.1	21.3
Phosphorus	N/A	N/A	<0.1	<0.1
Phosphorus - Total	10	0.01	0.05	0.03
Selenium - Total	1	0.1	<0.005	<0.0001
Silver - Total	0.4	0.0001	<0.0001	<0.0001
Sodium	N/A	N/A	121	136
Strontium	N/A	10 bq/L	0.64 mg/L	0.715 mg/L
Thallium	N/A	0.0003	<0.0003	<0.00005
Vanadium	N/A	0.006	0.0018	0.0009
Zinc - Total	2	0.03	0.023	0.009
Benzene	0.01	0.1	0.0023	0.0007
Toluene	0.02	0.0008	<0.0005	<0.0005
Ethylbenzene	0.06	0.008	0.0027	<0.0005
Xylene, m, p -	N/A	N/A	0.0042	<0.001
Xylene, o -	N/A	0.04	0.0005	<0.0005
Xylene, m, p, o -	N/A	N/A	0.0042	<0.0011
Xylene - Total	0.3	0.072	0.0089	<0.0026

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