



**PRAIRIE WASTE MANAGEMENT LIMITED
LANDFARM FACILITY DISPOSAL CRITERIA**

The following is a list of required analytical constituents for all soil to be disposed of at Prairie Waste Management Limited (PWML) facilities and their associated regulatory criteria. These criteria represent the maximum allowable concentrations for solid waste that can be accepted by PWML. Any materials that exceed these criteria may not be approved for disposal.

| Constituent | Regulatory Criteria | Constituent | Regulatory Criteria |
|---|---------------------------------|--|---------------------|
| Total BTEX | | Leachable BTEX | |
| Benzene | 100.0 mg/kg | Benzene | 0.5 mg/L |
| Toluene | 100.0 mg/kg | Toluene | 0.5 mg/L |
| Ethylbenzene | 100.0 mg/kg | Ethylbenzene | 0.5 mg/L |
| Xylenes | 100.0 mg/kg | Xylenes | 0.5 mg/L |
| PHC Fractions | | | |
| F1 (C6 to C10) | NC | | |
| F2 (C10 to C16) | NC | | |
| F3 (C16 to C34) | NC | | |
| F4 (C34 to C50) | NC | | |
| Total Metals | | Leachable Metals | |
| Aluminum (Al) | NC | Arsenic (As) | 2.5 mg/L |
| Antimony (Sb) | 20 mg/kg | Antimony (Sb) | NC |
| Arsenic (As) | 12 mg/kg | Barium (Ba) | 100.0 mg/L |
| Barium (Ba) | 750 mg/kg | Beryllium (Be) | NC |
| Beryllium (Be) | 4 mg/kg | Boron (B) | 500.0 mg/L |
| Bismuth (Bi) | NC | Cadmium (Cd) | 0.5 mg/L |
| Cadmium (Cd) | 1.4 mg/kg | Chromium (Cr) | 5.0 mg/L |
| Calcium (Ca) | NC | Cobalt (Co) | NC |
| Chromium (Cr) | 64 mg/kg | Copper (Cu) | NC |
| Cobalt (Co) | 40 mg/kg | Iron (Fe) | NC |
| Copper (Cu) | 63 mg/kg | Lead (Pb) | 5.0 mg/L |
| Iron (Fe) | NC | Mecury (Hg) | 0.1 mg/L |
| Lead (Pb) | 70 mg/kg | Nickel (Ni) | NC |
| Lithium (Li) | NC | Selenium (Se) | 1.0 mg/L |
| Magnesium (Mg) | NC | Silver (Ag) | NC |
| Manganese (Mn) | NC | Thallium (TI) | NC |
| Molybdenum (Mo) | 5 mg/kg | Uranium (U) | 10.0 mg/L |
| Nickel (Ni) | 50 mg/kg | Vanadium (V) | NC |
| Phosphorus (P) | NC | Zinc (Zn) | NC |
| Potassium (K) | NC | Zirconium (Zr) | NC |
| Selenium (Se) | 1 mg/kg | Polycyclic Aromatic Hydrocarbons (PAHs) | |
| Silver (Ag) | 20 mg/kg | Acenaphthene | 0.28 mg/kg |
| Sodium (Na) | NC | Acenaphthylene | 320 mg/kg |
| Strontium (Sr) | NC | Anthracene | 2.5 mg/kg |
| Thallium (TI) | 1 mg/kg | Benz(a)anthracene | 0.1 mg/kg |
| Tin (Sn) | 5 mg/kg | Benzo(a)pyrene | 20 mg/kg |
| Titanium (Ti) | NC | Benzo(b)fluoranthene | 0.1 mg/kg |
| Uranium (U) | 23 mg/kg | Benzo(k)fluoranthene | 0.1 mg/kg |
| Vanadium (V) | 130 mg/kg | Beno(g,h,i)perylene | NC |
| Zinc (Zn) | 200 mg/kg | Chrysene | NC |
| Polychlorinated Biphenyls (PCBs) | 0 mg/kg (total) | Dibenz(a,h)anthracene | 0.1 mg/kg |
| Other | | Fluoranthene | 50 mg/kg |
| Additionally, all solid waste must meet the following requirements: | | Fluorene | 0.25 mg/kg |
| pH > 2.0 and 12.5 | | Indeno(1,2,3-c,d)pyrene | 0.1 mg/kg |
| Flash Point > 60 °C (Degrees Celsius) | | Naphthalene | 0.013 mg/kg |
| Paint Filter Test - no free liquids | | Phenanthrene | 0.046 mg/kg |
| Legend | mg/kg = milligrams per kilogram | Pyrene | 0.1 mg/kg |
| mg/L = milligrams per litre | NC = no criteria | Quinoline | 0.1 mg/kg |