

**APPENDIX I.L - Storm Water Discharges Associated with Industrial Activity from Hazardous Waste Treatment, Storage, or Disposal Facilities**

A. Coverage of This Section.

1. Discharges Covered Under This Section. The requirements listed under this Part shall apply to storm water discharges from the following activities:

**Table I.L.1 – Sector L: Landfills and Land Application Sites**

SIC Code (Activity Code)	Activity Represented
4953	All Landfill, Land Application Sites, and Open Dumps
(LF)	All Landfill, Land Application Sites, and Open Dumps, except Municipal Solid Waste Landfill Areas Closed in Accordance with <i>40 CFR 258.60</i>

2. Sector Specific Limitations on Coverage. In addition to the limitations on coverage listed in *Part I.C*, the following storm water discharges associated with industrial activity are **not** authorized by this permit:
  - a. Discharges from open dumps, which are prohibited from discharging under *Section 4005* of RCRA, and are defined as a facility for the disposal of solid waste which does not comply with *40 CFR Part 257*.
3. Sector Specific Prohibition of Non-Stormwater Discharges. In addition to those non-storm water discharges prohibited under *Part I.D*, this permit does not authorize the discharge of:
  - a. Leachate, meaning liquid that has passed through or emerged from solid waste and contains soluble, suspended, or miscible materials removed from such waste;
  - b. Gas collection condensate;
  - c. Drained free liquids, meaning aqueous wastes drained from waste containers (e.g., drums) prior to landfilling;
  - d. Contaminated ground water;
  - e. Laboratory-derived wastewater; and
  - f. Contact wash water from washing truck and railcar exteriors and surface areas that have come in direct contact with solid waste at the landfill facility.

B. Sector Specific Control Measures and Effluent Limits.

In addition to the control measures and effluent limits in *Part III*, the permittee shall implement the following to minimize pollutant discharges, as applicable:

1. Maintenance of Control Measures. The permittee shall conduct maintenance of control measures by:
  - a. Maintaining all elements of leachate collection and treatment systems to prevent commingling of leachate with stormwater; and
  - b. Maintaining the integrity and effectiveness of any intermediate or final cover, including repairing the cover as necessary, to minimize the effects of settlement, sinking, and erosion.

2. Erosion and Sediment Controls. The permittee shall provide temporary stabilization (i.e. temporary seeding, mulching, and placing geotextiles on the inactive portions of stockpiles) for the following in order to minimize discharges of pollutants in stormwater:
  - a. Material stockpiled for daily, intermediate, and final cover;
  - b. Inactive areas of the landfill or open dump;
  - c. Landfills or open dump areas that have gotten final covers but where vegetation has yet to establish itself; and
  - d. Land application sites where waste application has been completed but final vegetation has not yet been established.

C. Sector Specific Inspection Requirements.

In addition to the inspection requirements in *Part IV.A*, the permittee shall also inspect the following activities, if they take place at the facility:

1. Operating Landfills, Open Dumps, and Land Application Sites. The facility shall be inspected **at least once every seven (7) calendar days**. Inspections shall focus on areas of landfills that have not yet been finally stabilized, to include:
  - a. Active land application areas;
  - b. Areas used for storage of material and wastes that are exposed to precipitation;
  - c. Stabilization and sediment and erosion control measures;
  - d. Leachate collection and treatment systems; and
  - e. Locations where equipment and waste trucks enter and exit the site.

Areas of the facility that have been stabilized, where land application has been completed, or where the climate is arid (areas with an average annual rainfall of 0–10 inches) or semi-arid (areas with an average annual rainfall of 10–20 inches) may reduce frequency and shall conduct inspections **at least once every month**.

2. Inactive Landfills, Open Dumps, and Land Application Sites. The facility shall be inspected **at least quarterly** in areas of the facility that are considered inactive or stabilized, to include:
  - a. Landfill, or open dump, stabilization and sediment and erosion control measures;
  - b. Leachate collection and treatment systems; and
  - c. All closed land application areas.

D. Sector Specific Plan Requirements.

1. Site Map. In addition to the requirements in *Part VII.D.3*, the site map shall also include the location of the following, if applicable:
  - a. Active and closed landfill cells or trenches, including the type of wastes disposed of in each;
  - b. Active and closed land application areas, including the types and quantities of wastes applied in specific areas;
  - c. Locations where open dumping is occurring or has occurred, including the type of wastes disposed of;

- d. Locations of any known leachate springs or other areas where uncontrolled leachate may commingle with stormwater; and
  - e. Leachate collection and handling systems.
2. **Summary of Potential Pollutant Sources.** In addition to the requirements in *Part VII.D.4*, the Plan summary of potential pollutant sources inventory shall also include the following, as applicable:
- a. Fertilizer, herbicide, and pesticide application;
  - b. Earth and soil moving;
  - c. Waste hauling and loading or unloading;
  - d. Outdoor storage of significant materials, including daily, interim, and final cover material stockpiles as well as temporary waste storage areas;
  - e. Exposure of active and inactive landfill and land application areas;
  - f. Uncontrolled leachate flows; and
  - g. Failure or leaks from leachate collection and treatment systems.

**E. Monitoring Requirements.**

1. **Analytical Benchmark Monitoring.** The following analytical benchmark monitoring parameters shall apply specifically to sector L facilities. Parameters found in this Part apply to both primary industrial activities and any co-located industrial activities.

**Table I.L.2 – Analytical Benchmark Monitoring Parameters for All Landfill, Land Application Sites, and Open Dumps (SIC 4953)**

Parameter	Benchmark Monitoring Concentration
Total Suspended Solids <sup>1</sup>	100 mg/L

<sup>1</sup> Sampling for total suspended solids is not required for stormwater discharges that are infiltrating to groundwater.

2. **Numeric Effluent Limitation Monitoring.** Numeric effluent limitation monitoring shall be required for sector L facilities conducting certain industrial activities. The concentration of pollutants in stormwater discharges, independent of comingling, as discussed in *Part V.C.2*, shall not exceed the following effluent limitations at any time during the duration of permit coverage.

**Table I.L.3 – Numeric Effluent Limitation Monitoring Parameters for Discharges from Non-Hazardous Waste Landfills Subject to Effluent Limitations <sup>1</sup>**

Parameter	Daily Maximum	Monthly Average Maximum <sup>2</sup>
Biochemical Oxygen Demand	140 mg/L	37 mg/L
Total Suspended Solids <sup>3</sup>	88 mg/L	27 mg/L
Ammonia	10 mg/L	4.9 mg/L
Alpha Terpineol	0.033 mg/L	0.016 mg/L

Benzoic Acid	0.120 mg/L	0.071 mg/L
p-Cresol	0.025 mg/L	0.014 mg/L
Phenol	0.026 mg/L	0.015 mg/L
Total Zinc	0.20 mg/L	0.11 mg/L
pH	Within the range of 6.0 – 9.0 s.u.	

- <sup>1</sup>. These numeric effluent limitations apply to contaminated stormwater discharges from municipal solid waste landfills that have not been closed in accordance with *40 CFR 258.60*, and to contaminated stormwater discharges from those landfills that are subject to the provisions of *40 CFR Part 257* except for discharges from any of the following facilities:
- a) Landfills operated in conjunction with other industrial or commercial operations when the landfill only receives wastes generated by the industrial or commercial operation directly associated with the landfill;
  - b) Landfills operated in conjunction with other industrial or commercial operations when the landfill receives wastes generated by the industrial or commercial operation directly associated with the landfill and also receives other wastes provided the other wastes received for disposal are generated by a facility that is subject to the same provisions in *40 CFR Subchapter N* as the industrial or commercial operation or the other wastes received are of similar nature to the wastes generated by the industrial or commercial operation;
  - c) Landfills operated in conjunction with Centralized Waste Treatment (CWT) facilities subject to *40 CFR part 437* so long as the CWT facility commingles the landfill wastewater with other non-landfill wastewater for discharge. A landfill directly associated with a CWT facility is subject to this part if the CWT facility discharges landfill wastewater separately from other CWT wastewater or commingles the wastewater from its landfill only with wastewater from other landfills; or
  - d) Landfills operated in conjunction with other industrial or commercial operations with the landfill receives wastes from public service activities so long as the company owning the landfill does not receive a fee or other remuneration for the disposal service.
- <sup>2</sup>. For averaging purposes, you may use a value of zero for any individual sample parameter which is determined to be less than the method detection limit. For sample values that fall between the method detection limit and the quantitation limit (i.e., a confirmed detection but below the level that can be reliably quantified), use a value halfway between zero and the quantitation limit.
- <sup>3</sup>. Sampling for total suspended solids is not required for stormwater discharges that are infiltrating to groundwater.