



CITY OF TRINIDAD LANDFILL

2401 N. State Street
Trinidad, CO 81082
Telephone: (719) 846-2538
www.Trinidad.co.gov

Contaminated Soil Disposal

City of Trinidad Landfill

Engineering Design and Operations Plan 4.5.7 Petroleum-Contaminated Soils

Petroleum-contaminated soils may be accepted at the Trinidad Landfill if the soil does not exhibit any hazardous characteristics as defined in 6 CCR 1007-3, Part 261 (as from time to time amended). See also the Trinidad Landfill Operating Policy for Contaminated Soil Disposal in **Attachment D (see below)** for acceptance and handling procedures.

If the City plans to accept petroleum-contaminated soils at the Landfill, an air permit pursuant to 5CCR 1001-5 (Colorado Air Pollution Control Division Regulation No. 3) will be obtained to address the acceptance, management, and accounting of volatile organic compounds (VOCs) from the accepted petroleum-contaminated waste materials. Additionally, the Landfill will comply with the guidance set forth in 5 CCR 1001-9 Section 5 (Regulation No. 7).

All petroleum-contaminated soils regulated by 40 CFR Part 280, i.e., those which resulted from corrective actions associated with underground storage tank (UST) releases, spills, or overfills, must have the following testing performed:

Testing Protocol for Petroleum-Contaminated Soils Regulated by 40 CFR Part 280:

- *Gasoline*: Paint Filter Test; Total Volatile Petroleum Hydrocarbons (TVPH); Benzene/Toluene/Ethylbenzene/Xylene (BTEX); Ignitability; TCLP Lead or Total Lead (if leaded gasoline). Soils contaminated with leaded gasoline must have less than 100 ppm total lead unless the TCLP lead concentration is less than 5.0 milligrams per liter (mg/l)
- *Diesel Fuel, Jet Fuel, or Fuel Oil*: Paint Filter Test; Extractable Petroleum Hydrocarbons (EPH) (by Method 8015); Ignitability; TCLP Benzene; and, if appropriate, TCLP Cadmium, Chromium, and Lead will also be tested
- *Used Motor Oil*: Paint Filter Test; EPH (by Method 8015); Ignitability; TCLP Metals; TCLP Semi-volatile and Volatile Organics; PCBs (if appropriate); and Reactivity
Petroleum-contaminated soils of known origin but which are not regulated by 40 CFR 280 (i.e., not resulting from UST corrective action, spills, or overfills) may require the following analyses:

Testing Protocol for Petroleum-Contaminated Soils Not Regulated by 40 CFR Part 280:

TCLP lead, cadmium, and chromium for soil contaminated with waste oils, and TCLP lead for soil contaminated with leaded gasoline

- TOX for volatile and semi-volatile organic compounds (if above 1,000 ppm, TCLP volatile organic compound [VOC] and semi-volatile organic compound [SVOC] are required)
- Analyzed for BTEX

Soils contaminated with compressor waste oils will also be analyzed for PCBs.

Acceptance Criteria:

- No free petroleum or other liquids as determined by Paint Filter Test
- Non-hazardous TCLP results for metals, semi-volatiles, and volatiles
- BTEX (total) less than 10 ppm
- TPH (total of VPH and EPH) no limit
- Ignitability less than 140°F and will not pose a chemical reaction hazard
- Soil contaminated with leaded gasoline must have less than 100 ppm total lead unless the TCLP lead concentration is less than 5.0 milligrams per liter (mg/l)
- PCBs less than 50 ppm

Soil contaminated with gasoline or diesel fuel must have TPH less than 1,000 ppm to be placed directly on working face (soils with higher levels require pre-drying/aeration away from working face). Soil contaminated with less-volatile compounds, such as waste oil, may be placed directly on the working face with TPH levels up to 10,000 ppm. In order to be used as daily cover, petroleum-contaminated soils must be approved by the Air Quality Division prior to placement. In addition, a 30-day demonstration will be performed and must be approved by CDPHE prior to use as daily cover.

Attachment D

City of Trinidad Landfill Operating Policy

CONTAMINATED SOIL DISPOSAL

The Trinidad Landfill will only accept contaminated soil for disposal that meets certain guidelines. The soil must meet the definition of a solid waste and must not be a hazardous waste. The following information shall be provided to the city of Trinidad Public Works Director for all waste streams requiring characterization:

1. A brief description of the material to be disposed of,
2. The rough volume of material to be disposed of,
3. The source of the material to be disposed of,
4. An approximate time period that the material will be delivered to the landfill,
5. Supporting analytical data as described below:
 - a. Paint Filter Test
 - b. BTEX
 - c. TPH
 - d. Reactivity
 - e. Corrosivity
 - f. Ignitability
 - g. TCLP for lead
 - h. VOC's (not required for petroleum storage tanks, except waste oil)
 - i. PCB screen (not required for petroleum storage tanks, except waste oil)

Data reporting may be less for certain wastes with prior approval from the Public Works Director. Reporting for sand trap waste will only be required once per year.

Following receipt of the aforementioned information, approval to dispose of the waste soil will be granted or denied in writing.