



Municipality of Anchorage

Solid Waste Services

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CONTAMINATED SOIL, SPILL RESIDUE, DRUMS, TANKS AND ASSOCIATED PRODUCT PIPING DISPOSAL POLICY

EFFECTIVE DATE: September 1, 1988

REVISED DATE: January 31, 2001

I. AUTHORITY TO ESTABLISH DISPOSAL POLICY:

The authority by which the Solid Waste Services (SWS) Department establishes disposal policies and procedures and conducts disposal operations is contained within the Anchorage Municipal Code and the State of Alaska Department of Environmental Conservation's Solid Waste Management Regulations, 18 AAC 60, as amended through July 11, 1999.

II. APPLICABILITY:

This policy applies to the disposal of soils, residues and other solid waste associated with the release or spill of petroleum products or other chemicals. This policy is to be used as a guideline to determine the acceptability of these materials for disposal at the Anchorage Regional Landfill (ARL). Due to the potential of encountering a wide variety of petroleum products and chemicals, it will often be necessary to make a case by case determination on the acceptability of specific soils and residues.

III. PROHIBITED MATERIALS:

Under **NO** circumstances will the following be accepted for disposal at the ARL, Central Transfer Station, or Girdwood Transfer Station:

- A. Contaminated soil, spill residue or other solid waste generated outside the boundaries of the Municipality of Anchorage.
- B. Contaminated soil, spill residue or other solid waste in any quantity which exhibits hazardous waste characteristics for ignitability, corrosivity, reactivity or toxicity, or contains listed hazardous waste, or substances which could be classified as a hazardous waste, at levels which exceed prohibitions as defined by the US Environmental Protection Agency (USEPA) or the Alaska Department of Environmental Conservation (ADEC).
- C. Contaminated soil, spill residue or other solid waste which contains concentrations of Polychlorinated Biphenyls (PCB) greater than 1 mg/Kg.
- D. Contaminated soil, spill residue or other solid waste, which contains free liquids as defined by the USEPA Paint Filter Test, including petroleum products, chemicals or water.
- E. Contaminated soil, spill residue, or other solid waste associated with contaminated soils or spill residues in drums with a capacity greater than 10 gallons. If contaminated soil, spill residue, or other solid waste associated with contaminated soils or spill residues is brought to the landfill in drums larger than 10 gallons, the material must meet the acceptance criteria contained in this policy document, the material will be emptied from the drums at the landfill by the person(s) who brought the drums to the landfill and the drums will then either be

removed from the landfill or, if they are to be disposed, must meet the criteria contained in Section VI.

- F. Sludges from any tank, floor drain, sand-grit separator or catch basin pumping or cleaning operations.

IV. LIMITATIONS FOR ACCEPTANCE OF SPECIFIC POLLUTANTS:

ALL LIMITATION MEASUREMENTS ARE DRY-WEIGHT MEASUREMENTS REFERENCED TO A SOIL MATRIX.

- A. Contaminated soil, spill residue, or other solid waste associated with underground storage tanks and systems having contained or containing only petroleum products, other than used oil or an unknown petroleum product, will be acceptable for disposal at the ARL provided the material is not prohibited as in Section III above and all of the following limitation are not exceeded:
 - 1. GASOLINE RANGE ORGANICS (GRO)
LIMIT - < 500 mg/Kg
ALASKA TEST METHOD – AK101.
 - 2. DIESEL RANGE ORGANICS (DRO)
LIMIT - < 1000 mg/Kg
ALASKA TEST METHOD – AK102.
 - 3. TOTAL BENZENE, TOLUENE, ETHYLBENZENE AND XYLENE (BTEX)
LIMIT - < 50 mg/Kg
TEST METHOD – EPA 8020.
 - 4. LEAD (leaded gasoline spills only)
LIMIT - < 5.0 mg/L
TEST METHOD – TCLP, OR MAXIMUM THEORETICAL LEACHATE CONCENTRATION IN ACCORDANCE WITH USEPA MEMORANDUM #36, "TOTAL ANALYSIS VS. TCLP", DATED January 12, 1993.

- B. Contaminated soil, spill residue, or other solid waste associated with underground storage tanks and systems having contained or containing used oil products, will be acceptable for disposal at the ARL provided the material is not prohibited as in Section II above and each of the following limitations are not exceeded:
 - 1. RESIDUAL-RANGE ORGANICS (RRO)
LIMIT - < 1000 mg/Kg
ALASKA TEST METHOD – AK103.
 - 2. TOTAL BENZENE, TOLUENE, ETHYLBENZENE AND XYLENE (BTEX)
LIMIT - < 50 mg/Kg
TEST METHOD – EPA 8020.
 - 3. LEAD
LIMIT - < 5.0 mg/L
TEST METHOD – TCLP, OR MAXIMUM THEORETICAL LEACHATE CONCENTRATION IN ACCORDANCE WITH USEPA MEMORANDUM #36, "TOTAL ANALYSIS VS. TCLP", DATED January 12, 1993.

4. ARSENIC
LIMIT - < 5.0 mg/L
TEST METHOD – TCLP, OR MAXIMUM THEORETICAL LEACHATE CONCENTRATION IN ACCORDANCE WITH USEPA MEMORANDUM #36, "TOTAL ANALYSIS VS. TCLP", DATED January 12, 1993.
 5. CHROMIUM
LIMIT - < 5.0 mg/L
TEST METHOD – TCLP, OR MAXIMUM THEORETICAL LEACHATE CONCENTRATION IN ACCORDANCE WITH USEPA MEMORANDUM #36, "TOTAL ANALYSIS VS. TCLP", DATED January 12, 1993.
 6. TOTAL COMPOSITE OF HALOGENATED VOLIATILE ORGANIC COMPOUNDS
LIMIT - < 100 mg/Kg
TEST METHOD – EPA 8021H.
 7. POLYCHLORINATED BIPHENYLS
LIMIT - < 1 mg/Kg
TEST METHOD - EPA 8081.
- C. Contaminated soil, spill residue, or other solid waste associated with underground storage tanks and systems having contained or containing an unknown petroleum product, will be acceptable for disposal at the ARL provided the material is not prohibited as in Section II above and each of the following limitations are not exceeded:
1. RESIDUAL-RANGE ORGANICS (RRO)
LIMIT - < 1000 mg/Kg
BY A COMPOSITE ANALYSIS OF ALASKA TEST METHODS AK 101, 102 AND 103.
 2. TOTAL BENZENE, TOLUENE, ETHYLBENZENE AND XYLENE (BTEX)
LIMIT - < 50 mg/Kg
TEST METHOD – EPA 8020.
 3. LEAD
LIMIT - < 5.0 mg/L
TEST METHOD – TCLP, OR MAXIMUM THEORETICAL LEACHATE CONCENTRATION IN ACCORDANCE WITH USEPA MEMORANDUM #36, "TOTAL ANALYSIS VS. TCLP", DATED January 12, 1993.
 4. ARSENIC
LIMIT - < 5.0 mg/L
TEST METHOD – TCLP, OR MAXIMUM THEORETICAL LEACHATE CONCENTRATION IN ACCORDANCE WITH USEPA MEMORANDUM #36, "TOTAL ANALYSIS VS. TCLP", DATED January 12, 1993.
 5. CHROMIUM
LIMIT - < 5.0 mg/L
TEST METHOD – TCLP, OR MAXIMUM THEORETICAL LEACHATE CONCENTRATION IN ACCORDANCE WITH USEPA MEMORANDUM #36, "TOTAL ANALYSIS VS. TCLP", DATED January 12, 1993.

6. TOTAL COMPOSITE OF HALOGENATED VOLIATILE ORGANICS
LIMIT - < 100 mg/Kg
TEST METHOD – EPA 8021H.
 7. POLYCHLORINATED BIPHENYLS
LIMIT - < 1 mg/Kg
TEST METHOD - EPA 8081.
- D. The acceptability for disposal at the ARL of any contaminated soil, spill residue, or other solid waste associated with underground storage tanks and systems containing NON-PETROLEUM products will be on a case by case basis as determined by SWS, Tele. 907-343-6262, fax 907-561-1357, e-mail wsws@ci.anchorage.ak.us.
- E. The acceptability for disposal at the ARL of any contaminated soil, spill residue, or other solid waste NOT associated with underground storage tanks and systems, such as, but not limited to, industrial processes; chemical processes; biological, thermal or chemical processes to remediate contaminated soils or products; screenings from sand-grit separators or catch basins; or filtration processes will be on a case by case basis as determined by SWS, tel.: 907-343-6262, fax: 561-1357, e-mail: wsws@ci.anchorage.ak.us .

V. INFORMATION REQUIREMENTS TO DETERMINE ACCEPTABILITY:

- A. It is the responsibility of the person(s) seeking disposal of the contaminated soil, spill residue, or other solid waste addressed above, to provide sufficient documentation to demonstrate that the material meets the requirements of this policy.
- B. For contaminated soil, spill residue, or other solid waste associated with petroleum products, the following must be submitted in writing prior to SWS acceptance:
1. A site work plan showing the site location, the specific source of the contaminated soil or spill residue, the estimate of the total quantity of materials to be disposed, the type of soil involved, the screening procedures used, the location of samples collected, procedures used for taking and handling samples and quality assurance/quality control measures used. The site work plan must be in sufficient detail to demonstrate that samples were taken in accordance with the ADEC 18 AAC 78, UST PROCEDURES AND STANDARD SAMPLING PROCEDURES MANUAL, as amended through March 1, 1999.
 2. Results of laboratory analysis conducted for each representative sample taken. All laboratory analyses must be in accordance with specified USEPA Test Methods for all relevant contaminants. The quality assurance/quality control procedures must be in accordance with the requirements of USEPA Publication SW-846, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods and the ADEC regulations and guidelines contained in 18 AAC 75, as amended through October 1, 1999 and 18 AAC 78, as amended through March 1, 1999. There may, however, be case by case situations which SWS would request taking additional samples.
 3. Type, quantity and major components of the contaminant products involved.
 4. Material Safety Data Sheets (MSDS) on all suspected chemical products for contaminated soil or spill residue associated with chemicals other than petroleum products.

5. The proposed method and location of remediation treatment, if required, to meet SWS disposal criteria. Sample results from both untreated and remediated soil or spill residue must be reviewed by SWS before acceptance approval will be considered.
 6. The proposed/desired date for disposal of the materials.
- C. The SWS may, on the basis of the above information, request more specific laboratory analyses for specific contaminants of the contaminated soil or spill residue prior to making a decision on the acceptance of the material. The SWS will provide written authorization for disposal of any contaminated soils or spill residues that are determined to be acceptable. An information copy of this authorization letter will also be provided to the ADEC STP/Polluted Sites Manager. The letter of authorization will include a SWS tracking number unique to each approved project and will explain any specialized requirements for disposal. A copy of the authorization letter must be presented to the ARL Scalehouse Attendant at the time each load of material is delivered for disposal by the contracted hauler. Failure to have a current letter of authorization will result in the load being refused at the Scalehouse. When the soil is transported to the ARL, a copy of the ADEC letter authorizing off-site transport of the contaminated soil is to be provided to the Scalehouse Attendant so that it may be included in the SWS file for this disposal authorization.
- D. The following procedures apply to the hauling of the contaminated soil, spill residue, or other solid waste associated with contaminated soils or spill residue to the ARL:
1. It is the responsibility of the generator of the contaminated soils to control his/her contracted hauler while operating on the ARL and to ensure the contracted hauler adheres to the Landfill's rules, posted speed limits and traffic directions. Failure of the generator to exercise adequate control over the contracted hauler(s) will result in the immediate cancellation and retraction of the Contaminated Soils Disposal Authorization Letter and refusal at the Scalehouse of any subsequent loads associated with that Contaminated Soils Disposal Authorization.
 2. The contracted hauler must make specific disposal arrangements, via facsimile transmission with the Solid Waste Disposal General Foreman, Tele. 428-0864, or 428-1027, fax 428-1697, at least 24 hours prior to bringing the contaminated soils to the ARL. The contracted hauler shall include the approximate delivery time by specifying the hour of the day. If the haul of contaminated soil or spill residue is expected to extend over several days, the contracted hauler must also coordinate daily with the Solid Waste Disposal General Foreman for directions on where to deposit the soil. Failure to accomplish either coordination or follow the directions given will result in refusing the load.
 3. The haul will be made only with end dumps or end dumps with pups; belly dumps will not be allowed.
 4. The trucks hauling the loads will weigh-in and out at the ARL Scalehouse.

VI. DISPOSAL OF DRUMS, TANKS AND ASSOCIATED PIPING:

- A. Drums, tanks, and associated piping, which contained or were used in the storage or transport of petroleum products or other chemicals, will be accepted for disposal **ONLY** at the ARL. No drums, tanks, or associated piping segments, which contained or were used in the storage or transport of petroleum products or other chemicals, regardless of size or condition, will be disposed of, or accepted at the Central or Girdwood Transfer Stations.

- B. Any drums, tanks, and associated piping, which contained or were used in the storage or transport of petroleum products or other chemicals, **MUST** be cleaned of all residual products prior to disposal in order to be accepted at the ARL.
- C. All drums and tanks greater than 10 gallons in volume, **MUST** have both ends cut out and be crushed, or, if the volume is greater than 100 gallons, be cut into pieces with no single dimension greater than four (4) feet. Associated piping **MUST** be cut into pieces less than eight (8) feet in length.

VII. OTHER REQUIREMENTS:

- A. Solid Waste Services Department points of contact are:
 - 1. Contaminated Soils and Spill Residue questions, Tele - 343-6262, Fax 561-1357, e-mail wsws@ci.anchorage.ak.us.
 - 2. Disposal fees and billing procedure questions are to be referred to Customer Service, Tele - 343-6251, Fax 561-1357.
 - 3. Anchorage Regional Landfill: Solid Waste Disposal General Foreman, Tele - 428-0864 or 428-1027, Fax 428-1697.
- B. Failure to comply with these requirements will result in refusing the load. Solid Waste Services scalehouse attendants and operators have the authority to refuse loads at the ARL and the Central and Girdwood Transfer Stations.
- C. All other requirements applicable for solid waste disposal - covered loads, hours, fees etc. - shall apply.