

RULE 412 SOIL DECONTAMINATION OPERATIONS
(Adopted 1/16/2001)

A. Applicability

This Rule shall apply to Excavation and/or treatment of ROC-Contaminated Soil.

A.1 Exemptions

The provision of this rule shall not apply to:

- A.1.a Contaminated Soil exposed for the sole purpose of sampling;
- A.1.b Decontamination of less than one cubic yard of Contaminated Soil with 50 ppm or less of ROC;
- A.1.c Soil contaminated solely by an organic liquid having an initial boiling point of 302°F, or higher, as determined by ASTM D86-78, provided such soil is not heated above ambient temperature and samples of the contaminating liquid can be obtained; or
- A.1.d Emergency Excavation and/or Decontamination of soil performed by, under jurisdiction of, or pursuant to requirements of, an authorized health officer, agricultural commissioner, fire protection officer, or other authorized agency officer. The Air Pollution Control Officer (APCO) shall be notified prior to commencing such Excavation.

B. Requirements

B.1 Excavation

- B.1.a Any person performing an Excavation subject to this Rule shall sample, with a ROC Analyzer, excavated soil to determine if it is Contaminated Soil.
- B.1.b If excavated soil is Contaminated Soil, such soil shall be transported off-site for treatment, recycling, or disposal at an approved disposal site; or returned to the Excavation.
- B.1.c Contaminated Soil shall be covered except when soil is being added or removed. Contaminated Soil may be covered with a layer of uncontaminated soil no less than six inches deep, or it may be covered with an Impervious Barrier.

B.2 Treatment Systems

- B.2.a Treatment of Contaminated Soil shall be accomplished by one of the following methods with an overall Control Efficiency equivalent to at least 90%
 - B.2.a.1 installation and operation of ROC collection and control system for in-situ treatment of Contaminated Soil, or
 - B.2.a.2 installation and operation of a ROC collection and control system for on-site treatment of Contaminated Soil.
- B.2.b Applicable requirements of Regulation II (Permits) shall be satisfied prior to installation of any equipment required for a treatment system.

C. Administrative Requirements

C.1 Test Methods

- C.1.a Initial boiling point of a liquid shall be measured in accordance with ASTM D86.
- C.1.b For purposes of Contaminated Soil and Impervious Barrier (as defined in Rule 101), volatilization of ROC's from Contaminated Soils shall be measured using a ROC Analyzer which satisfies requirements of U.S. EPA Method 21, 40 CFR Part 60.
- C.1.c Organic Content of soil shall be determined, as appropriate, by U.S. EPA Reference Method 8015, 8260, or the gas chromatographic method contained in the "Leaking Underground Fuel Tank (LUFT) Manual (October, 1989)" as approved by the California Department of Health Services.

C.2 Soil Sampling Procedure (Used in Determining Organic Content)

One composite sample shall be collected and analyzed for every 50 cubic yards of excavated Contaminated Soil. (Samples are not required if soil is not "Contaminated Soil")

- C.2.a A composite sample shall consist of one sample taken from the center of each of the four equal sectors of the area required to be sampled using procedures described below unless another method is approved by the APCO because the standard method is infeasible.

- C.2.b Samples shall be taken from at least three inches into the Contaminated Soil of a pile using a driven-tube type sampler, capped and sealed with inert materials, and extruded in the lab to reduce loss of volatile materials; or by using a clean brass or stainless steel tube (at least three inches long) driven into the soil with a suitable instrument. Ends of the tube shall then be covered with aluminum foil, then plastic end caps, and finally wrapped with a suitable tape. Samples shall be immediately placed on ice, or dry ice, for transport to a laboratory.
- C.2.c Chain-of-custody records shall be kept to document possession of a sample from collection in the field until it is analyzed.

D. Compliance Schedule

Any existing and active Soil Decontamination operation not in compliance with this Rule on the date of adoption shall comply with the following compliance schedule;

- D.1 Submit a compliance plan to ICAPCD within 60 days of the date of adoption of this Rule, and
- D.2 Achieve compliance with this Rule within 180 days of submitting the compliance plan submitted pursuant to Subsection D.1.