

Petroleum Contaminated Soil (PCS)

Pursuant to Arizona Administrative Code (A.A.C.) R18-13-1604, a generator of excavated PCS must determine if the soil is special waste PCS, solid waste PCS, or non-regulated soil through laboratory analysis by an Arizona licensed laboratory or by using generator knowledge. It is recommended that the generator manages the PCS as special waste until a proper waste determination has been conducted.

If laboratory analysis is used, the waste determination shall be performed in accordance with a site-specific written sampling plan using:

- a. "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods (SW-846)," Third Edition, Chapter Nine, Sampling Plan.
- b. ADEQ's Petroleum Contaminated Soil sampling plan. The sampling plan is available on the AZ Department of Environmental Quality Web site at www.azdeq.gov/environ/waste/solid/special.html

It has been determined by an Arizona licensed laboratory that I have generated petroleum contaminated soil. What do I do?

- Obtain a Special Waste Generator ID Number (A.A.C. R18-13-1302)
- Complete the "Generator" section of a Special Waste Manifest prior to off-site Consignment (A.A.C. R18-13-1302)
- Only use a registered Special Waste Shipper (A.A.C. R18-13-1303)
- Dispose of the Special Waste at a registered storage, disposal, or treatment facility permitted by ADEQ (A.A.C. R18-13-1613)
- Store Special Waste PCS less than 90 days prior to shipment to a storage, disposal or treatment facility (A.A.C. R18-13-1612)
- Keep records at least 3 years (A.A.C. R18-13-1305)

How To Store PCS

- Each Special Waste PCS storage area, tank or container used for storage or accumulation of PCS must be labeled as followed:
CAUTION: CONTAINS PETROLEUM
CONTAMINATED SOIL
GENERATOR NAME:
GENERATOR ID#:
ACCUMULATION START DATE:

Special Waste PCS stored in tanks and containers:

- Any tank or container used for storage of Special Waste PCS must be leak-proof, and made of, or lined with, material that will not react with the Special Waste PCS.
- The tank or container must be closed at all times unless Special Waste PCS is being added or removed, and not opened, handled or stored in a manner that will lead to rupture or leaks.
- A written record of monthly inspections of the tank or container for leaks and deterioration and any corrective actions must be kept.

SPECIAL WASTE CONSTITUENTS (A.R.S. § 49-851A.3)	REGULATED CONTAMINANTS	SOLID WASTE PCS	SPECIAL WASTE PCS
		>RESIDENTIAL SRLs (IN PPM, MG/KG)	>NON- RESIDENTIAL SRLs (IN PPM, MG/KG)
BTEX EPA Method 8260 or 8021	Benzene	0.65	1.4
	Toluene	650	650
	Ethylbenzene	400	400
	Total Xylenes	270	420
PAHS Polynuclear aromatic hydrocarbons Commonly found in diesel and lubricant oil EPA Method 8310	Acenaphthylene	3,700	29,000
	Anthracene	22,000	240,000
	Benz[A]anthracene	6.9	21
	Benzo[A]pyrene	0.69	2.1
	Benzo[B]fluoranthene	6.9	21
	Benzo[K]fluoranthene	69	210
	Chrysene	680	2,000
	Dibenz[A,H]anthracene	0.69	2.1
	Fluoranthene	2,300	22,000
	Fluorene	2,700	26,000
	Indenopyrene	6.9	21
	Naphthalene	56	190
	Pvrene	2,300	29,000