

BUREAU OF ENVIRONMENTAL REMEDIATION/REMEDIAL SECTION  
GUIDELINE  
CHARACTERIZATION AND MANAGEMENT OF  
CONTAMINATED SOIL CUTTINGS

BER POLICY # BER-RS-003  
DATE: June 18, 1993  
REVISED 1996  
PAGES: 1 with 4 attachments

Section Chief:  Date: 12/29/05  
Bureau Manager:  Date: 12/30/05

**REVISIONS**

Reviser: Rob Elder

Date of Revision: 1996

**ORIGINATOR**

Originator: Rick Bean

Date: 6/18/93

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This guidance presents recommended options for the proper characterization and management of contaminated soil cuttings derived during environmental investigations and/or remediation. These wastes may include drilling mud, soil cuttings and other solid materials derived during such activities. KDHE also recommends referring to an EPA document titled, "Management of Investigation-Derived Wastes During Site Inspections," (EPA/540/G-91/009, May 1991) for further guidance.

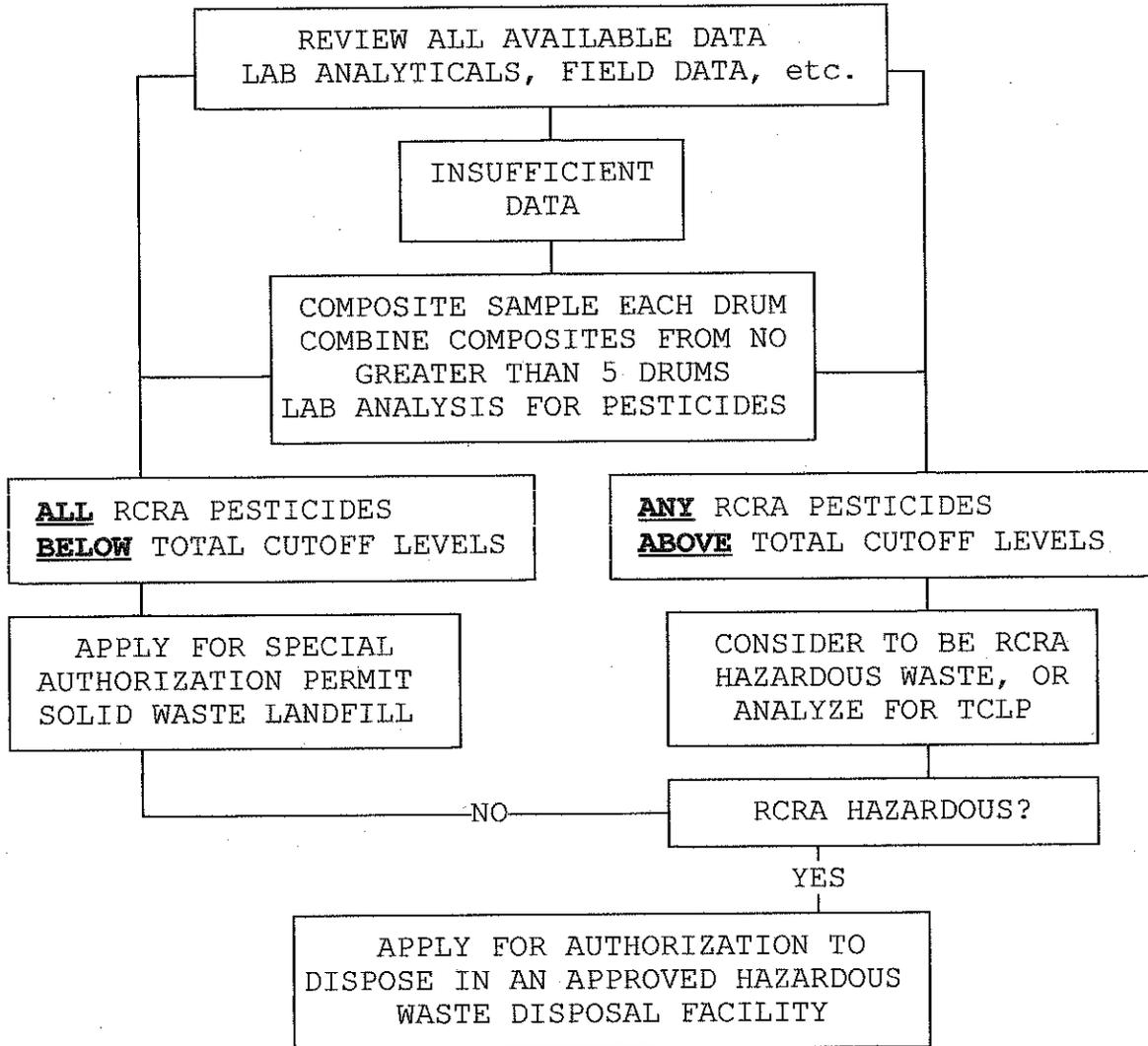
Several flow charts (attachments) have been developed to guide project managers through characterization and management of contaminated soil cuttings for:

- Attachment 1 - RCRA Pesticides
- Attachment 2 - RCRA Metals
- Attachment 3 - RCRA VOCs
- Attachment 4 - RCRA Base Neutral and Acid Extractable

The most important elements for management of soil cuttings are:

- Leave a site in no worse condition than existed prior to the investigation.
- Removing any waste that poses an immediate threat to human health and the environment.
- Leaving wastes that do not require off-site disposal or extended above-ground containerization.
- Complying with existing federal and state ARARs.
- Minimizing the quantity of generated waste.

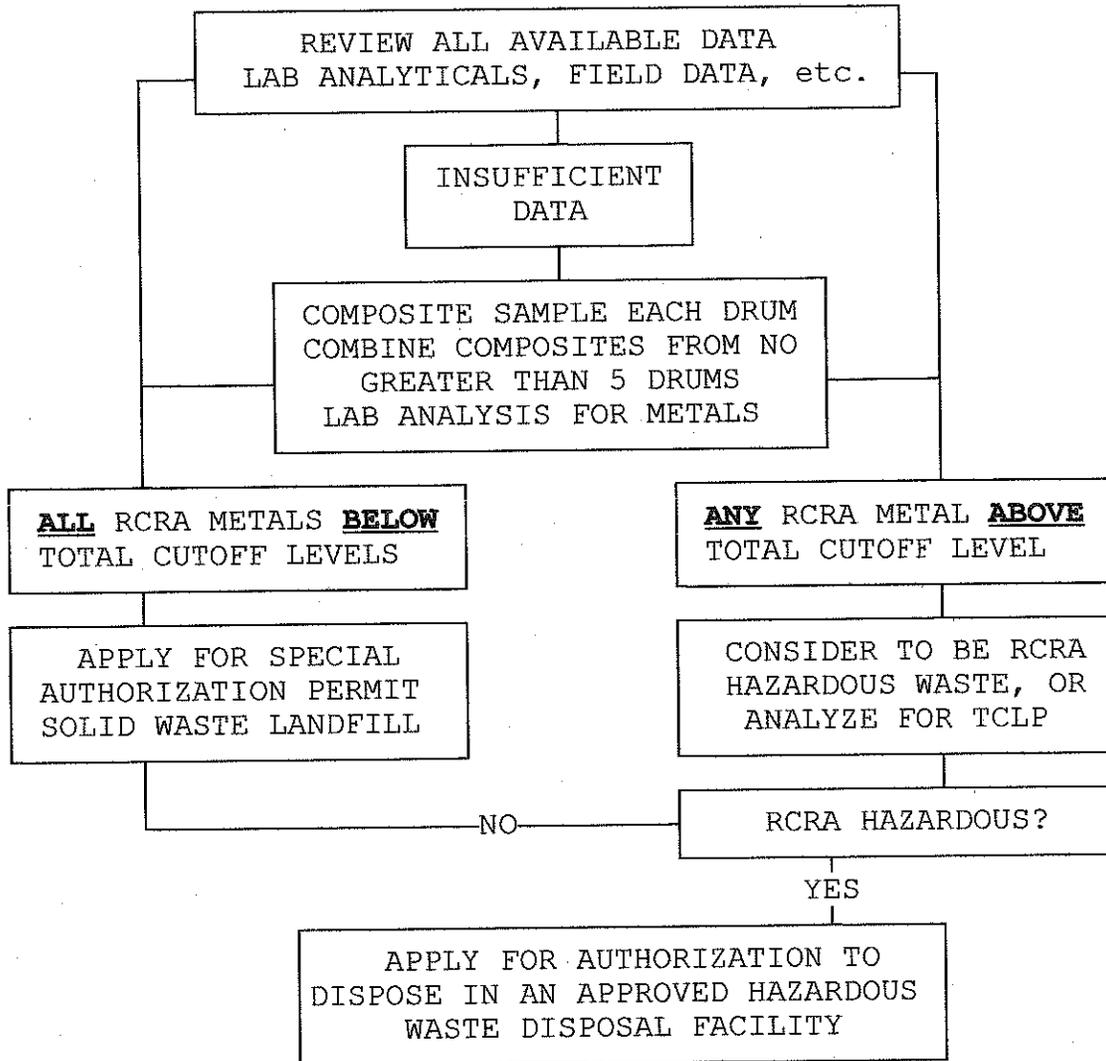
**KDHE RECOMMENDED PROCEDURES  
FOR CHARACTERIZATION AND DISPOSAL OF  
RCRA PESTICIDES CONTAMINATED SOIL CUTTINGS**



**RCRA PESTICIDES TOTAL CONCENTRATION CUTOFF LEVELS (MG/KG)**

Chlordane	0.6	Methoxychlor	200.0
Endrin	0.4	Toxaphene	10.0
Heptachlor	0.16	2,4,-D	200.0
Lindane	8.0	2,4,5-TP (Silvex)	20.0

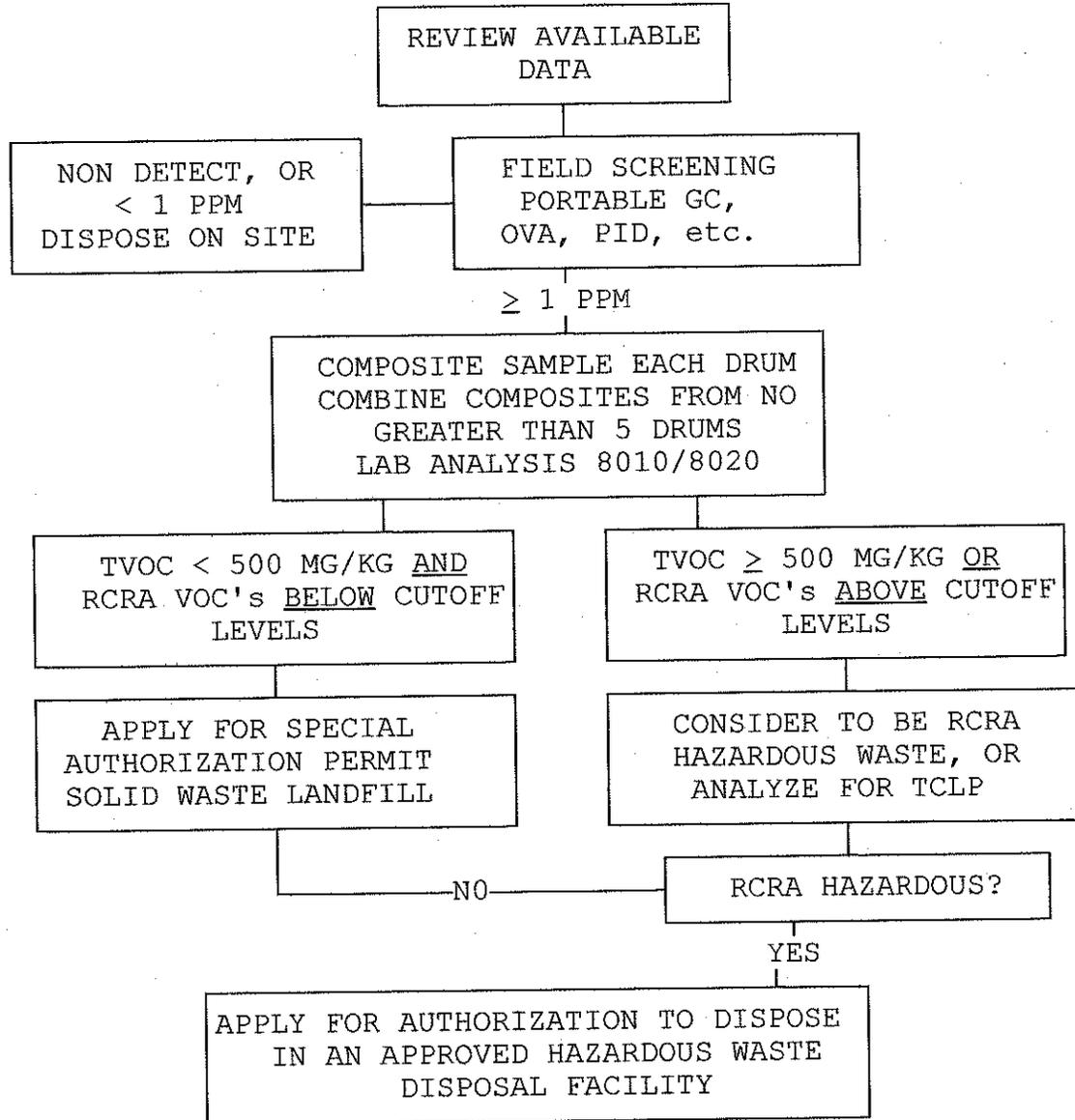
**KDHE RECOMMENDED PROCEDURES  
FOR CHARACTERIZATION AND DISPOSAL OF  
RCRA METALS CONTAMINATED SOIL CUTTINGS**



**RCRA METALS TOTAL CONCENTRATION CUTOFF LEVELS (MG/KG)**

Arsenic	100.0	Lead	100.0
Barium	2000.0	Mercury	4.0
Cadmium	20.0	Selenium	20.0
Chromium	100.0	Silver	100.0

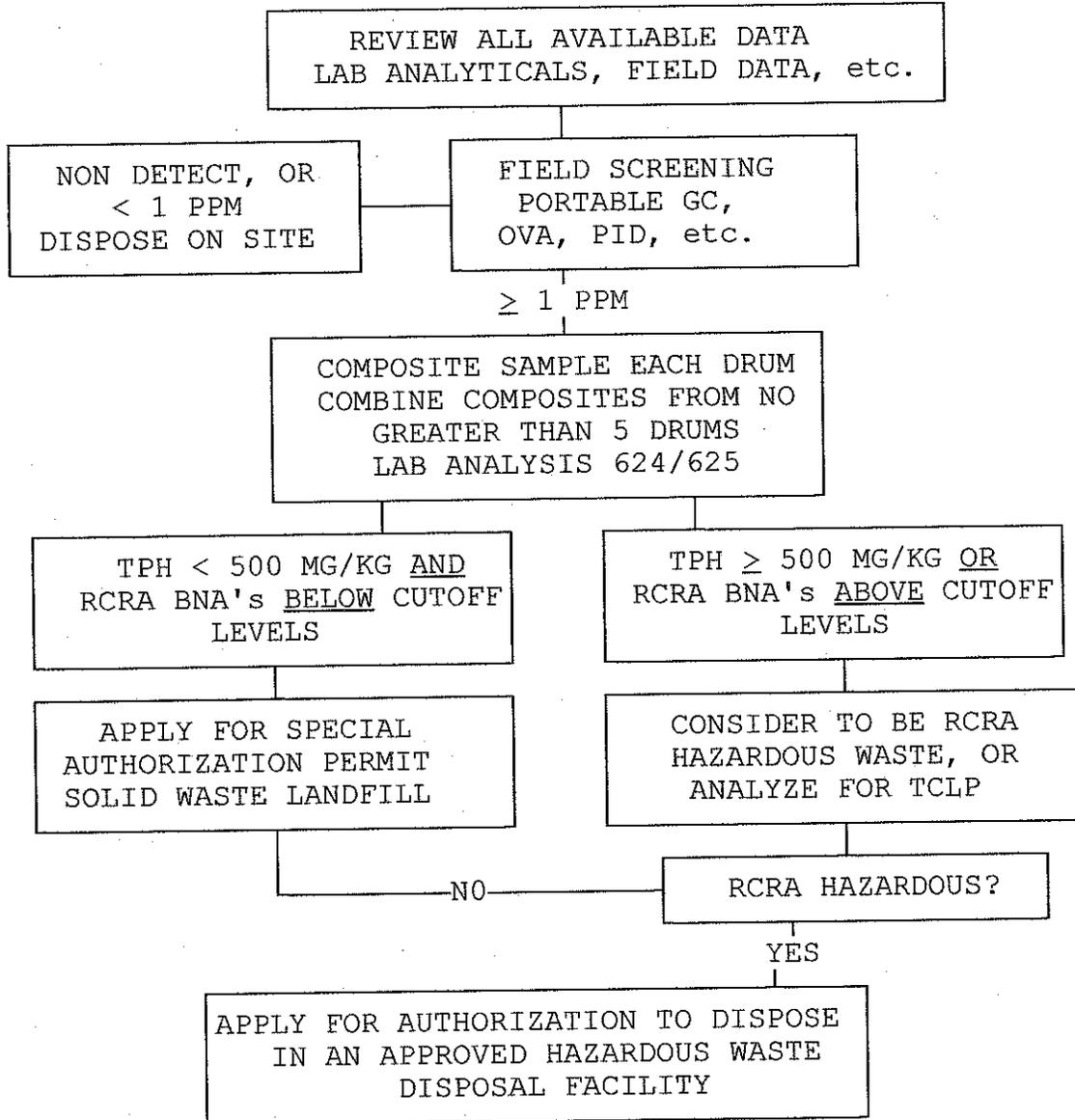
**KDHE RECOMMENDED PROCEDURES  
FOR CHARACTERIZATION AND DISPOSAL OF RCRA  
VOC CONTAMINATED SOIL CUTTINGS**



**RCRA VOC CONCENTRATION CUTOFF LEVELS (MG/KG)**

Benzene	10.0	Trichloroethylene	10.0	Carbon Tetrachloride	10.0
Chlorobenzene	2000.0	Chloroform	120.0	1,2-Dichloroethane	10.0
Methyl Ethyl Ketone	4000.0	Tetrachloroethylene	14.0	1,1-Dichloroethylene	14.0
Vinyl Chloride	4.0				

**KDHE RECOMMENDED PROCEDURES FOR CHARACTERIZATION AND DISPOSAL OF RCRA BASE NEUTRAL AND ACID EXTRACTABLE CONTAMINATED SOIL CUTTINGS**



**RCRA BASE NEUTRAL/ACID (BNA's) CUTOFF LEVELS (MG/KG)**

o-cresol	4,000.0	Hexachlorobenzene	2.6	Pentachlorophenol	2,000.0
m-cresol	4,000.0	Hexachlorobutadiene	10.0	Pyridine	100.0
p-cresol	4,000.0	Hexachloroethane	60.0	2,4,5-trichlorophenol	8,000.0
Cresol	4,000.0	Nitrobenzene	40.0	2,4,6-trichlorophenol	40.0
1,4-dichlorobenzene	150.0	2,4-dinitrotoluene	2.6		