AA-21
1.1.2
No Date

Res. Rec. Corp. at PSL

Tier 2 PCDD and PCDF Investigation

Specific Objective: Determine whether or not PCDDs and PCDFs are present ~~in the soils~~ at the former Res. Rec. Haz. Waste Disposal Site.

Q: What to look for?

PCDDs - 75 isomers

PCDFs - 135 isomers

Not all isomers can be analyzed for

Isomer analyses extremely expensive & if we look for only 5-12 indiv. isomers - they will be the only ones we will be able to discuss

which isomers — choose the most toxic (data exists)

— choose the most common (no data)

— weight toxicity with distribution

— total PCDD & total PCDF

— homolog analysis

Homolog analysis provides the greatest amount of information for the cost; and if PCDD or PCDF is positively identified, specific isomers may be analyzed for if ~~deemed~~ that information is required and if standards exist for the isomers.

A detection limit of 1 ppb has been mandated by the EPA i.e. each homolog LLD ≡ 1 ppb. There ~~does~~ are not ~~appear to be any~~ analytical problems inherent in attaining this level.

ref.

USEPA SF
1439626

Q2 Where to look?

Pasco Sanitary Landfill → Resource Recovery Leased Land →
→ 5 (?) burial sites used by Res.Rec. for disposal of
Haz. Wastes from Rhodia (Known 2,4-D waste disposal)
and other suspected PCDD or PCDF precursors, e.g.
Pentachlorophenol in wood treatment wastes