

Other chemicals.dat

Gregory Rudloff/R5/USEPA/US
05/04/2007 08:54 AM To
David Petrovski, debus.allen@epa.gov, John Steketee
cc

bcc

Subject
Fw: Other compounds detected in Tittabawassee River extracts

F.Y.I.

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----- Forwarded by Gregory Rudloff/R5/USEPA/US on 05/04/2007 07:54 AM -----
"Dindal, Amy" <DindalA@BATTELLE.ORG>
05/04/2007 07:47 AM

Subject
Other compounds detected in Tittabawassee River extracts

Hi Greg,

As we discussed, here is a list of compounds that were found in extracts of three Tittabawassee River soil samples that were collected in 2003 (by Sue Matlock) and archived from the 2004 SITE Demonstration. The purpose of this study was to evaluate the content of representative extracts to determine what else is in the samples that is not being detected in the analytical system because the analysis is focused only on dioxin/furan congeners. The type and amount of compounds varied for replicate sample splits, depending upon which technique the extract was associated with, confirming that sample processing (extraction and clean-up) clearly impacts what remains in the sample extract. Battelle conducted these extract analyses using full scan gas chromatography/mass spectrometry with both electron impact and negative chemical ionization. The compounds are tentatively identified (that is, the compounds were not identified with a specific chemical name, but rather a general chemical class) and the peaks were not quantified. Further investigation would be required to accomplish positive identifications and quantities of compounds.

DNR #1 (Dept of Natural Resources property in Saginaw)
silicones
alkenes
alkane
phthalates
fluoranthrene
fatty acid ester
triphenylene
benzo[a]pyrene or isomer
cyclopenta-[c,d]-pyrene

DNR #2 (Dept of Natural Resources property in Saginaw)
Page 1

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silicones
alkanes
benzophenone
phthalates
phthalates
fluoranthrene
triphenylene
cyclopento[c,d]pyrene or isomer
binaphthalene or isomer

IMP #2 (Imerman Park in Saginaw Township)

silicones
alkanes
benzophenone
fluoranthrene
fatty acid ester
triphenylene
methyl triphenylene
nonachlorobiphenyl

If you have any questions, please let me know.

Thanks,
Amy