Dioxin Soils & Ash

Site Name IBS/National Disposal TDD FIL03775 Case Numb. 2812E

OTR	ITR	CRL	HEIC TAG NUMBER	CHAIN OF CUSTODY	SAS NUMBER
				01860	2812E01
				01860	E02
				01860	E03
				01860	E04
				01860	E05
				01861	E06
				01861	E07
				01861	E08
				01861	E09
				01861	E10

EPA Region 5 Records Ctr.
364571

CB, KG/df
9-30-81

SAP-002

INTRODUCTION TO DATA TABLES

A SUMMARY OF THE ANALYTICAL RESULTS FOR SAMPLES WHICH WERE TAKEN DURING FIELD ACTIVITIES CAN BE FOUND IN THE FOLOWING TABLES. ONLY DETECTABLE CONCENTRATIONS ARE REPORTED, HOWEVER, IF THE COMPOUND HAS A FOOTNOTE FOLLOWING THE VALUE, CONSULT THE DEFINITION OF THE FOOTNOTE PROVIDED BELOW. ADDITIONAL QA/QC INFORMATION IS PROVIDED IN THE ATTACHED DATA SHEETS.

I) REPORTING UNITS
- A) ORGANICS
  - 1) Water Samples - ug/l or ppb (parts per billion)
  - 2) Soils or Sediments - ug/kg or ppb (parts per billion)
- B) METALS
  - 1) Water Samples - ug/l or ppb
  - 2) Soils or sediments - mg/kg or ppm

II) DEFINITION OF FOOTNOTES TO ANALYTICAL DATA

A) ORGANICS

Footnote	Definition	Interpretation
UJ	Detection Limit (D.L.) is estimated because of a Quality Control (QC) protocol. D.L. is possibly above or below Contract Required Detection Limit (CRDL).	Compound was not detected
UB	Compound found in laboratory blank. No Value above CRDL.	Compound was not detected
UJB	Compound found in laboratory blank, but not detected in sample. CRDL is estimated because of a QC protocol.	Compound was not detected
B	Compound found in blank. Two interpretations are possible:	
	a) If sample value is equivalent to D.L. to 5x blank concentration	Compound value is semi-quantitative.
	b) If sample value is greater than 5x the blank concentration	Compound value is quantitative
JB	Compound found in blank, value is estimated because of QC protocol.	Compound value is semi-quantitative
R	Do Not Use Value. Major Violation of QC Protocol	Compound value is not usable.
C	Value adjusted for blank (an unacceptable procedure)	Compound value is semi-quantitative
J	Value is above CRDL and is an estimated value because of a QC protocol	Compound value is semi-quantitative
Q	No Analytical Result	Compound was not detected
N	Presumptive evidence for the presence of a compound as used for a Tentatively Identified Compound (TIC)	Compound value is semi-quantitative

B) METALS

FOOTNOTE	DEFINITION	INTERPRETATION
E	Estimated or not reported due to interference. See laboratory narrative.	Compound or element was not detected or value is semi-quantitative
s	Analysis by Method of Standard Additions (Look for a "+" Footnote)	Value is quantative
R	Spike recoveries outside QC protocols which indicates a possible matrix problem. Data may be biased high or low. See spike results and laboratory narrative.	Value may be quantitative or semiquantitative
*	Duplicate value outside QC protocols which indicates a possible matrix problem	Value is semiquantitative
+	Correlation coefficient for standard additions is less than 0.995. See review and laboratory narrative.	Data value is biased
[ ]	Value is real, but is above instrument D.L. and below CRDL	Value may be quantitative or semiquantitative
UJ	D.L. is estimated because of a QC protocol. D.L. is possibly above or below CRDL.	Compound or element was not detected
J	Value is above CRDL and is an estimated value because of a QC protocol.	Value is semiquantitative

SAMPLE PROPOSAL
FIT REGION V

1. Date Form Completed 3/10/87

2. Account # IL0377 TDD # 8703-344

EPA I.D. #

3. Site Name, City, State ~~Bork & Sons, Peoria, IL~~ National Disposal #1, Peoria, IL

4. Team Leader Ripp Sampler Pachowicz

5. Number and Type of Samples:
6 soil + 3 combustion chamber + 1 Ash

Soil/Sediment 10 Surface Water ____ Ground Water ____

Residential/Municipal Wells ____ Other ____

Number of Blanks ____ Number of Duplicates ____

6. RAS Parameters Requested:

A/B/N ____ Pest/PCB ____ Volatiles ____ Metals ____ Cyanide ____

SAS Parameters Requested: Dioxin; 2,3,7,8 TCDD-TCDF isomers & furans

7. Expected Sampling Date(s): 3/13/87

Expected Shipping Date(s): 3/13/87

8. Lab Used For Analysis: Organic ____

Inorganic ____

SAS Triangle Laboratory,

9. Case Number ____ SAS Number 2812E

10. Airbill Numbers: 3/13

Organic Lab ____ # Coolers ____ # Samples ____

Inorganic Lab ____ # Coolers ____ # Samples ____

CRL/SAS Lab 4121429165 # Coolers 2 # Samples 10

4915 Prospectus Drive
Suite F
Research Triangle Park, NC 27709
919-544-5729
Attn: Dr Ron Hass

COMPOUND					
ITC	MEG466	MEG467	MEG468	MEG469	MEG470
OTC	EE440	EE441	EE442	EE443	EE444
SAMPLE	S-1	S-2	S-3	S-4	S-5
pentachlorophenol					
phenanthrene			96 J	180 J	
anthracene					
di-n-butylphthalate	22000 BJ	150 BJ	120 BJ	120 BJ	4300 BJ
fluoranthene			150 J	320 J	
benzidine			270 J		
pyrene				500 J	
butylbenzylphthalate					
3,3'-dichlorobenzidine					
benzo(a)anthracene					
bis(2-ethylhexyl)phthlate	530000 B	85 BJ		250 BJ	130000 B
chrysene					
di-n-octyl phthlate					
benzo(b&k)fluoranthene					
benzo(a)pyrene				130 J	
indeno(1,2,3-cd)pyrene					
dibenzo(a,h)anthracene					
benzo(g,h,i)perylene					
alpha-BHC					
beta-BHC					
delta-BHC					
gamma-BHC(lindane)					
heptachlor					
aldrin					
heptachlor epoxide					
endosulfan I					
dieldrin					
4,4'-DDE					
endrin					
endosulfan II					
4,4'-DDD					
endrin aldehyde					
endosulfan sulfate					
4,4'-DDT					
methoxychlor					
endrin ketone					
chlorodane					
toxaphene					
Aroclor-1016					
Aroclor-1221					
Aroclor-1232					
Aroclor-1242					
Aroclor-1248					
Aroclor-1254					
Aroclor-1260					
ELEMENT	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
aluminum	3290	20300	18000	22000	6400
antimony					
arsenic	[3]	[5]	[5]	[6]	[5]
barium	1360	1160	1850	1860	2330
beryllium					
cadmium	7.3	11	3	[2]	
calcium	32200	8920	33900	28200	59600
chromium	14	29	24	30	14
cobalt					
copper		[14]	[12]	[11]	
iron	7150	19000	19400	22400	14000
lead	98.6	37.7	26.3	31.6	15.3
magnesium	11100	9710	15200	17300	14600
manganese	328	619	623	690	480
mercury					
nickel	[16]	26	[26]	[26]	[13]
potassium	41000	29100	36600	45400	13000
selenium					
silver					
sodium	45700	27800	33200	43300	15100
thallium					
tin					[15.3]
vanadium		[27]	[21]	[18]	
zinc	26.3	200.0	63.0	76.7	58.0
cyanide CHECK IF ANALYZED ( )					
TENTATIVELY IDENTIFIED ORGANICS					

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	ITC	MEG466	MEG467	MEG468	MEG469	MEG470						
	OTC	EE440	EE441	EE442	EE443	EE444						
	SAMPLE	S-1	S-2	S-3	S-4	S-5						
COMPOUND												
chloromethane												
bromomethane												
vinyl chloride												
chloroethane												
methylene chloride		11 B	8 B	16 B	21 B	9 B						
acetone		120 B	71 B	190 B	93 B	95 B						
carbon disulfide												
1,1-dichloroethene												
1,1-dichloroethane												
trans-1,2,-dichloroethene												
chloroform												
1,2-dichloroethane												
2-butanone		9 BJ	28 B	10 B	20 B	22 B						
1,1,1-trichloroethane												
carbon tetrachloride												
vinyl acetate												
bromodichloromethane												
1,1,2,2-tetrachloroethane												
1,2-dichloropropane												
trans-1,3-dichloropropene												
trichloroethene												
dibromochloromethane												
1,1,2-trichloroethane												
benzene												
cis-1,3-dichloropropene												
2-chloroethylvinylether												
bromoform												
2-hexanone												
4-methyl-2-pentanone					7 BJ							
tetrachloroethene												
toluene												
chlorobenzene												
ethylbenzene												
styrene												
total xylenes												
N-nitrosodimethylamine												
phenol												
aniline												
bis(2-chloroethyl)ether												
2-chlorophenol												
1,3-dichlorobenzene												
1,4-dichlorobenzene												
benzyl alcohol												
1,2-dichlorobenzene												
2-methylphenol												
bis(2-chloroisopropyl)ether												
4-methylphenol												
N-nitroso-di-n-propylamine												
hexachloroethane												
nitrobenzene												
isophrone												
2-nitrophenol												
2,4-dimethylphenol												
benzoic acid			180 J									
bis(2-chloroethoxy)methane												
2,4-dichlorophenol												
1,2,4-trichlorobenzene												
napthalene												
4-chloroaniline												
hexachlorobutadiene												
4-chloro-3-methylphenol												
2-methylnapthalene												
hexachlorocyclopentadiene												
2,4,6-trichlorophenol												
2,4,5-trichlorophenol												
2-chloronaphthalene												
2-nitroaniline												
dimethyl phthalate												
acenapthylene												
3-nitroaniline												
acenaphthene												
2,4-dinitrophenol												
4-nitrophenol												
dibenzofuran												
2,4-dinitrotoluene												
2,6-dinitrotoluene												
diethylphthalate												
4-chlorophenyl-phenylether												
flourene												
4-nitroaniline												
4,6-dinitro-2-methylphenol												
N-nitrosodiphenylamine												
4-bromophenyl-phenylether												
hexachlorobenzene												

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