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February 25, 1993

Mr. Harry Gregory
Roux Associates
775 Park Avenue
Suite 255
Huntingon, NY 11743

Dear Mr. Gregory:

Please find enclosed the analytical results of 15 soil and 3 aqueous samples received at our laboratory on January 19 and 21, 1993. This report contains sections addressing the following information at a minimum:

- sample summary
- analytical methodology
- state certifications
- definitions of data qualifiers and terminology
- analytical results
- chain-of-custody

IEA Report #30930-0060	Purchase Order #05526Y
Project ID: Amtrak Sunnyside	

Copies of this analytical report and supporting data are maintained in our files for a minimum of five years unless special arrangements have been made. Unless specifically indicated, all analytical testing was performed at this laboratory location and no portion of the testing was subcontracted.

We appreciate your selection of our services and welcome any questions or suggestions you may have relative to this report. Please contact your customer service representative at (203) 261-4458 for any additional information. Thank you for utilizing our services; we hope you will consider us for your future analytical needs.

I have reviewed and approved the enclosed data for final release.

Very truly yours,

Jeffrey C. Curran
Laboratory Manager

JCC/adj

cc: J. Harry

30930-0060
ROUX ASSOCIATES
SAMPLE SUMMARY

Client ID	Lab ID	Matrix	Date Collected	Date Received
S-99	0060001	Soil	01/18/93	01/19/93
S-100	0060002	Soil	01/18/93	01/19/93
S-101	0060003	Soil	01/18/93	01/19/93
S-102	0060004	Soil	01/18/93	01/19/93
CS-43	0060005	Soil	01/18/93	01/19/93
FB 011893	0060006	Liquid	01/18/93	01/19/93
TB	0060007	Liquid	---	01/19/93
CS-75	0060008	Soil	01/19/93	01/21/93
S-103	0060009	Soil	01/19/93	01/21/93
CS-51	0060010	Soil	01/20/93	01/21/93
CS-50	0060011	Soil	01/20/93	01/21/93
S-115	0060012	Soil	01/20/93	01/21/93
S-113	0060013	Soil	01/20/93	01/21/93
S-111	0060014	Soil	01/20/93	01/21/93
CS-49	0060015	Soil	01/20/93	01/21/93
FB 012093	0060016	Liquid	01/20/93	01/21/93
S-114	0060017	Soil	01/20/93	01/21/93
S-112	0060018	Soil	01/20/93	01/21/93

30930-0060
ROUX ASSOCIATES
PROJECT SUMMARY

The client requested the samples be analyzed for the parameters listed in Table 1.0.

METHODOLOGY

Volatile organics were determined using purge and trap GC/MS. The instrumentation used was a Tekmar Dynamic Headspace Concentrator interfaced with a Hewlett-Packard Model 5995 GC/MS/DS.

Semi-volatile organics were determined using capillary GC/MS. The instrumentation used was a Hewlett-Packard Model 5890 gas chromatograph interfaced with Model 5970/5971 Mass Selective Detector.

Polychlorinated biphenyls (PCB's) were determined using GC/ECD. The instrumentation used was a HP Model 5890 gas chromatograph equipped with an electron capture detector (Ni^{63}).

Metals were determined by ICP using either a JA61 simultaneous ICAP or a PE6500-XR sequential ICP. Graphite furnace elements were determined using either a PEZ5100 or a PEZ3030 GFAAS. Mercury was determined by the cold vapor technique utilizing the Spectro Products Model HG-4 mercury analyzer.

The analyses were conducted according to NYSDEC '91 ASP Protocols.

DISCUSSION

Volatile Organics - In order to meet the 7-day from receipt holding time, the field blanks and the trip blank were analyzed along with the soil sample on a soil calibration curve.

Extractions - Sample S-100 for PCB's was inadvertently spiked with the incorrect concentration of the standard solution. The sample was re-extracted on 02/01/93 using the correct solution.

Semi-Volatile Organics - Samples S-101, S-100, S-100 MS, S-100 MSD and S-102 exhibited internal standard area suppression. Samples S-101 and S-102 were reanalyzed with similar results, therefore proving matrix interference. Samples S-100 MS and S-100MSD confirmed the matrix interference for sample S-100. Both analyses have been reported with the reanalysis designated with the suffix "RE".

PCB's - Samples S-100, S-100 MS, S-00 MSD, S-101, CS-75, S-103, CS-51, CS-50, S115, S-113, S-111, CS-49, S-114 and S-112 required dilutions because of the high concentration of aroclor 1260.

The third peak used for calculation of aroclor 1260 in sample S-112 was outside of RT windows due to matrix interference.

Samples S-102 and CS-43 required dilutions due to the sample matrix. The third peak used for calculation or aroclor 1260 in sample CS-43 was outside of RT windows.

After sample CS-43 was diluted, the aroclor present was indistinguishable on the RTX-35 column, therefore the results reported are from column DB-1701. The third peak of aroclor 1260 was outside of RT windows.

Samples CS-75 and CS-49 were confirmed by GC/MS for aroclor 1260.

There was no aroclor 1242 injected within 72 hours of the QC check standard on column 2, however the aroclors run every 72 hours are not used for quantitation, only for pattern recognition. Since this is a spike sample, aroclor 1242 is a known compound.

Because of the very high concentration of aroclor 1260 in sample S-100 and the dilution required, the spike percent recovery could not be calculated.

All samples with dilution factors of 100 and higher had surrogates diluted out.

In sample CS-50 and CS-50 DL, DCB was lost in matrix and is not reported.

DCB was below advisory QC limits on column 1 in samples FB 011893 and FB 012093 and method blank PBLK40.

DCB was below advisory QC limits on column 2 in sample FB 011893 and method blanks PBLK53, PBLk40 and PBLK51 and on column 1 in sample S-111 DL.

TCX was below advisory QC limits on column 2 in sample S-99 and method blanks PBLK44 and PBLK51.

DCB had high recovery because of interference with aroclors on column 1 in samples CS-43, S-100 MSD, CS-5-1 DL, CS-51, S-115 DL, S-113 and on column 2 in samples S-102, S-100 MS, S-100 MSD, CS-51 DL, CS-51, S-115 DL, S-111 DL, CS-49 and S-112 DL.

Many results have "P" flags due to the large percent RPD between column concentrations. This is believed to be due to the sample matrix.

Metals - IEC's are electronically employed by the TJA ICAP-61. However, the ICSA is utilized as a monitoring device to detect any additional adjustments that may be required. These modifications are calculated and applied manually. They are so noted in the raw data.

Copper, arsenic and selenium failed the control limits for spike recovery analysis of sample S-100, resulting in three "N" flags. It was noted during sample digestion that the sample contained numerous rocks. A problem with sample homogeneity appears to be the cause for the resultant flags.

No other problems were noted.

RESULTS

The results are presented in the following Tables. Also enclosed are the data packages containing all relevant data.

TABLE 1.0
30930-0060
ROUX ASSOCIATES
ANALYTICAL REQUESTS

Sample Identification	Requested Parameters
S-99, S-100, S-101, S-102, FB 011893	TCL volatile organics plus a library search for non-target compounds, TCL semi-volatile organics plus a library search for non-target compounds, PCB's, TAL metals
CS-43	PCB's, mercury
TB	TCL volatile organics plus a library search for non-target compounds
CS-75, S-103, CS-51, CS-50, S-115, S-113, S-111, CS-49, FB 012093, S-114, S-112	PCB'S

Soil

TABLE 2.0
30930-0060
ROUX ASSOCIATES
EPA TCL VOLATILE ORGANICS

All values are ug/Kg.

	Sample Identification					
Dilution Factor	1.0	1.10	1.12	1.12	1.12	
Method Blank I.D.	VBLKG2	VBLKG2	VBLKG2	VBLKG2	VBLKG2	
Compound	Method Blank	S-99	S-100	S-100 MS	S-100 MSD	Quantitation Limits with no Dilution
Chloromethane	U	U	U	U	U	10
Bromomethane	U	U	U	U	U	10
Vinyl Chloride	U	U	U	U	U	10
Chloroethane	U	U	U	U	U	10
Methylene Chloride	8J	10JB	7JB	15B	13B	10
Acetone	10	11B	27B	9JB	13B	10
Carbon Disulfide	U	U	U	U	U	10
1,1-Dichloroethene	U	U	U	96	89	10
1,1-Dichloroethane	U	U	U	U	U	10
1,2-Dichloroethene (total)	U	U	U	U	U	10
Chloroform	U	U	U	U	U	10
1,2-Dichloroethane	U	U	U	U	U	10
2-Butanone	U	U	U	4JB	6JB	10
1,1,1-Trichloroethane	U	U	U	1JB	1JB	10
Carbon Tetrachloride	U	U	U	U	U	10
Bromodichloromethane	U	U	U	U	U	10
1,2-Dichloropropane	U	U	U	U	U	10
cis-1,3-Dichloropropene	U	U	U	U	U	10
Trichloroethene	U	U	U	56	57	10
Dibromochloromethane	U	U	U	U	U	10
1,1,2-Trichloroethane	U	U	U	U	U	10
Benzene	U	U	U	55	61	10
trans-1,3-Dichloropropene	U	U	U	U	U	10
Bromoform	U	U	U	U	U	10
4-Methyl-2-pentanone	U	U	U	U	U	10
2-Hexanone	U	U	U	U	U	10
Tetrachloroethene	U	U	U	U	U	10
1,1,2,2-Tetrachloroethane	U	U	U	U	U	10
Toluene	2J	2JB	2JB	49	55	10
Chlorobenzene	U	U	U	51	55	10
Ethylbenzene	U	U	U	U	U	10
Styrene	U	U	U	U	U	10
Xylene (total)	U	U	U	U	U	10

U, J, B - See Appendix for definition.
Note: Sample detection limit = quantitation limit x dilution factor.

Soil

TABLE 2.1
30930-0060
ROUX ASSOCIATES
EPA TCL VOLATILE ORGANICS

All values are ug/Kg unless noted.

	Sample Identification					
Dilution Factor	1.0	1.16	1.14	1.0	1.0	
Method Blank I.D.	VBLKG2	VBLKG2	VBLKG2	VBLKG2	VBLKG2	
Compound	Method Blank	S-101	S-102	FB* 011893	TB*	Quantitation Limits with no Dilution
Chloromethane	U	U	U	U	U	10
Bromomethane	U	U	U	U	U	10
Vinyl Chloride	U	U	U	U	U	10
Chloroethane	U	U	U	U	U	10
Methylene Chloride	8J	6JB	8JB	10B	20B	10
Acetone	10	19B	16B	9JB	8JB	10
Carbon Disulfide	U	U	U	U	U	10
1,1-Dichloroethene	U	U	U	U	U	10
1,1-Dichloroethane	U	U	U	U	U	10
1,2-Dichloroethene (total)	U	U	U	U	U	10
Chloroform	U	U	U	U	U	10
1,2-Dichloroethane	U	U	U	U	U	10
2-Butanone	U	U	U	U	U	10
1,1,1-Trichloroethane	U	U	U	U	U	10
Carbon Tetrachloride	U	U	U	U	U	10
Bromodichloromethane	U	U	U	U	U	10
1,2-Dichloropropane	U	U	U	U	U	10
cis-1,3-Dichloropropene	U	U	U	U	U	10
Trichloroethene	U	U	U	U	U	10
Dibromochloromethane	U	U	U	U	U	10
1,1,2-Trichloroethane	U	U	U	U	U	10
Benzene	U	U	U	U	U	10
trans-1,3-Dichloropropene	U	U	U	U	U	10
Bromoform	U	U	U	U	U	10
4-Methyl-2-pentanone	U	U	U	U	U	10
2-Hexanone	U	U	U	U	U	10
Tetrachloroethene	U	U	U	U	U	10
1,1,2,2-Tetrachloroethane	U	U	U	U	U	10
Toluene	2J	1JB	U	U	U	10
Chlorobenzene	U	U	U	U	U	10
Ethylbenzene	U	U	U	U	U	10
Styrene	U	U	U	U	U	10
Xylene (total)	U	U	U	U	U	10

*Values are ug/L (see Discussion).
U, J, B - See Appendix for definition.
Note: Sample detection limit = quantitation limit x dilution factor.

TABLE 3.0
30930-0060
ROUX ASSOCIATES
VOLATILE TENTATIVELY IDENTIFIED COMPOUNDS

Sample Identification: Method Blank VBLKG2

CAS#	Compound	RT	Estimated Concentration, ug/Kg
	None detected		

Sample Identification: S-99

CAS#	Compound	RT	Estimated Concentration, ug/Kg
	None detected		

Sample Identification: S-100

CAS#	Compound	RT	Estimated Concentration, ug/Kg
	Unknown alcohol	7.03	9J
	Unknown alkane	24.81	9J

Sample Identification: S-101

CAS#	Compound	RT	Estimated Concentration, ug/Kg
	None detected		

Sample Identification: S-102

CAS#	Compound	RT	Estimated Concentration, ug/Kg
	None detected		

TABLE 3.1
30930-0060
ROUX ASSOCIATES
VOLATILE TENTATIVELY IDENTIFIED COMPOUNDS

Sample Identification: FB 011893

CAS#	Compound	RT	Estimated Concentration, ug/L
541059	Cyclotetrasiloxane, hexamethyl	18.31	10JN
556672	Cyclotetrasiloxane, octamethyl	23.12	7JN
	Unknown siloxane	25.91	7J

Sample Identification: TB

CAS#	Compound	RT	Estimated Concentration, ug/L
	None detected		

TABLE 4.0
30930-0060
ROUX ASSOCIATES
EPA TCL SEMI-VOLATILE ORGANICS

All values are ug/L.

	Sample Identification		
Dilution Factor	1.0	1.01	
Method Blank I.D.	SBLK53	SBLK53	
Compound	Method Blank	FB 011893	Quantitation Limits with no Dilution
Phenol	0.5J	1JB	10
bis(2-Chloroethyl)ether	U	U	10
2-Chlorophenol	U	U	10
1,3-Dichlorobenzene	U	U	10
1,4-Dichlorobenzene	U	U	10
1,2-Dichlorobenzene	U	U	10
2-Methylphenol	U	U	10
2,2'-oxybis(1-Chloropropane)	U	U	10
4-Methylphenol	U	U	10
N-Nitroso-di-n-propylamine	U	U	10
Hexachloroethane	U	U	10
Nitrobenzene	U	U	10
Isophorone	U	U	10
2-Nitrophenol	U	U	10
2,4-Dimethylphenol	U	U	10
bis(2-Chloroethoxy)methane	U	U	10
2,4-Dichlorophenol	U	U	10
1,2,4-Trichlorobenzene	U	U	10
Naphthalene	U	U	10
4-Chloroaniline	U	U	10
Hexachlorobutadiene	U	U	10
4-Chloro-3-methylphenol	U	U	10
2-Methylnaphthalene	U	U	10
Hexachlorocyclopentadiene	U	U	10
2,4,6-Trichlorophenol	U	U	10
2,4,5-Trichlorophenol	U	U	25
2-Chloronaphthalene	U	U	10
2-Nitroaniline	U	U	25
Dimethylphthalate	U	U	10
Acenaphthylene	U	U	10
2,6-Dinitrotoluene	U	U	10
3-Nitroaniline	U	U	25
Acenaphthene	U	U	10

U, J, B - See Appendix for definition.
Note: Sample detection limit = quantitation limit x dilution factor.

TABLE 4.0
30930-0060
ROUX ASSOCIATES
EPA TCL SEMI-VOLATILE ORGANICS

All values are ug/L.

	Sample Identification		
Dilution Factor	1.0	1.01	
Method Blank I.D.	SBLK53	SBLK53	
Compound	Method Blank	FB 011893	Quantitation Limits with no Dilution
2,4-Dinitrophenol	U	U	25
4-Nitrophenol	U	U	25
Dibenzofuran	U	U	10
2,4-Dinitrotoluene	U	U	10
Diethylphthalate	0.3J	0.3JB	10
4-Chlorophenyl-phenylether	U	U	10
Fluorene	U	U	10
4-Nitroaniline	U	U	25
4,6-Dinitro-2-methylphenol	U	U	25
N-Nitrosodiphenylamine (1)	U	U	10
4-Bromophenyl-phenylether	U	U	10
Hexachlorobenzene	U	U	10
Pentachlorophenol	U	U	25
Phenanthrene	U	U	10
Anthracene	U	U	10
Carbazole	U	U	10
Di-n-butylphthalate	0.3J	0.3JB	10
Fluoranthene	U	U	10
Pyrene	U	U	10
Butylbenzylphthalate	U	U	10
3,3'-Dichlorobenzidine	U	U	10
Benzo(a)anthracene	U	U	10
Chrysene	U	U	10
bis(2-Ethylhexyl)phthalate	0.8J	1JB	10
Di-n-octylphthalate	U	0.4J	10
Benzo(b)fluoranthene	U	U	10
Benzo(k)fluoranthene	U	U	10
Benzo(a)pyrene	U	U	10
Indeno(1,2,3-cd)pyrene	U	U	10
Dibenzo(a,h)anthracene	U	U	10
Benzo(g,h,i)perylene	U	U	10

U, J, B, (1) - See Appendix for definition.
Note: Sample detection limit = quantitation limit x dilution factor.

TABLE 4.1
30930-0060
ROUX ASSOCIATES
EPA TCL SEMI-VOLATILE ORGANICS

All values are ug/Kg.

	Sample Identification					
Dilution Factor	1.0	1.14	1.14	1.14	1.14	
Method Blank I.D.	SBLK51	SBLK51	SBLK51	SBLK51	SBLK51	
Compound	Method Blank	S-99	S-100	S-100 MS	S-100 MSD	Quantitation Limits with no Dilution
Phenol	U	U	U	2,000	1,900	330
bis(2-Chloroethyl)ether	U	U	U	U	U	330
2-Chlorophenol	U	U	U	1,900	1,900	330
1,3-Dichlorobenzene	U	U	U	U	U	330
1,4-Dichlorobenzene	U	U	U	1,300	1,200	330
1,2-Dichlorobenzene	U	U	U	U	U	330
2-Methylphenol	U	U	U	U	U	330
2,2'-oxybis(1-Chloropropane)	U	U	U	U	U	330
4-Methylphenol	U	U	U	U	U	330
N-Nitroso-di-n-propylamine	U	U	U	1,500	1,400	330
Hexachloroethane	U	U	U	U	U	330
Nitrobenzene	U	U	U	U	U	330
Isophorone	U	U	U	U	U	330
2-Nitrophenol	U	U	U	U	U	330
2,4-Dimethylphenol	U	U	U	U	U	330
bis(2-Chloroethoxy)methane	U	U	U	U	U	330
2,4-Dichlorophenol	U	U	U	U	U	330
1,2,4-Trichlorobenzene	U	U	U	1,400	1,300	330
Naphthalene	U	9J	85J	87J	77J	330
4-Chloroaniline	U	U	U	U	U	330
Hexachlorobutadiene	U	U	U	U	U	330
4-Chloro-3-methylphenol	U	U	U	2,400	2,400	330
2-Methylnaphthalene	U	11J	81J	86J	81J	330
Hexachlorocyclopentadiene	U	U	U	U	U	330
2,4,6-Trichlorophenol	U	U	U	U	U	330
2,4,5-Trichlorophenol	U	U	U	U	U	800
2-Chloronaphthalene	U	U	U	U	U	330
2-Nitroaniline	U	U	U	U	U	800
Dimethylphthalate	U	U	U	U	54J	330
Acenaphthylene	U	16J	380	480	540	330
2,6-Dinitrotoluene	U	U	U	U	U	330
3-Nitroaniline	U	U	U	U	U	800
Acenaphthene	U	U	74J	1,700	1,600	330

U, J - See Appendix for definition.
Note: Sample detection limit = quantitation limit x dilution factor.

TABLE 4.1
30930-0060
ROUX ASSOCIATES
EPA TCL SEMI-VOLATILE ORGANICS

All values are ug/Kg.

	Sample Identification					
Dilution Factor	1.0	1.14	1.14	1.14	1.14	
Method Blank I.D.	SBLK51	SBLK51	SBLK51	SBLK51	SBLK51	
Compound	Method Blank	S-99	S-100	S-100 MS	S-100 MSD	Quantitation Limits with no Dilution
2,4-Dinitrophenol	U	U	U	U	U	800
4-Nitrophenol	U	U	U	3,200	2,900	800
Dibenzofuran	U	8J	70J	72J	62J	330
2,4-Dinitrotoluene	U	U	U	1,700	1,400	330
Diethylphthalate	U	24J	U	21J	U	330
4-Chlorophenyl-phenylether	U	U	U	U	U	330
Fluorene	U	U	110J	110J	80J	330
4-Nitroaniline	U	U	U	U	U	800
4,6-Dinitro-2-methylphenol	U	U	U	U	U	800
N-Nitrosodiphenylamine (1)	U	U	U	U	U	330
4-Bromophenyl-phenylether	U	U	U	U	U	330
Hexachlorobenzene	U	U	U	U	U	330
Pentachlorophenol	U	U	U	1,600	1,600	800
Phenanthrene	U	45J	1,000	640	480	330
Anthracene	U	17J	460	350J	370J	330
Carbazole	U	26J	480	250J	270J	330
Di-n-butylphthalate	19J	36JB	160JB	62JB	U	330
Fluoranthene	U	100J	1,700	1,000	950	330
Pyrene	U	77J	U	2,000	2,000	330
Butylbenzylphthalate	5J	U	U	U	U	330
3,3'-Dichlorobenzidine	U	U	U	U	U	330
Benzo(a)anthracene	U	65J	1,100	820	760	330
Chrysene	U	110J	U	1,000	1,000	330
bis(2-Ethylhexyl)phthalate	28J	100JB	1,600B	250JB	270JB	330
Di-n-octylphthalate	U	U	U	U	U	330
Benzo(b)fluoranthene	U	100J	1,000	1,200	1,000	330
Benzo(k)fluoranthene	U	110J	940	770	680	330
Benzo(a)pyrene	U	88J	1,200	760	1,000	330
Indeno(1,2,3-cd)pyrene	U	110J	280J	230J	330J	330
Dibenzo(a,h)anthracene	U	13J	51J	35J	60J	330
Benzo(g,h,i)perylene	U	80J	150J	130J	220J	330

U, J, B, (1) - See Appendix for definition.
Note: Sample detection limit = quantitation limit x dilution factor.

TABLE 4.2
30930-0060
ROUX ASSOCIATES
EPA TCL SEMI-VOLATILE ORGANICS

All values are ug/Kg.

	Sample Identification					
Dilution Factor	1.0	9.28	9.28	1.14	1.14	
Method Blank I.D.	SBLK51	SBLK51	SBLK51	SBLK51	SBLK51	
Compound	Method Blank	S-101	S-101 RE	S-102	S-102 RE	Quantitation Limits with no Dilution
Phenol	U	U	U	U	U	330
bis(2-Chloroethyl)ether	U	U	U	U	U	330
2-Chlorophenol	U	U	U	U	U	330
1,3-Dichlorobenzene	U	U	U	U	U	330
1,4-Dichlorobenzene	U	U	U	U	U	330
1,2-Dichlorobenzene	U	U	U	U	U	330
2-Methylphenol	U	U	U	U	U	330
2,2'-oxybis(1-Chloropropane)	U	U	U	U	U	330
4-Methylphenol	U	U	U	U	28J	330
N-Nitroso-di-n-propylamine	U	U	U	U	U	330
Hexachloroethane	U	U	U	U	U	330
Nitrobenzene	U	U	U	U	U	330
Isophorone	U	U	U	U	U	330
2-Nitrophenol	U	U	U	U	U	330
2,4-Dimethylphenol	U	41J	U	U	15J	330
bis(2-Chloroethoxy)methane	U	U	U	U	U	330
2,4-Dichlorophenol	U	U	U	U	U	330
1,2,4-Trichlorobenzene	U	U	U	U	U	330
Naphthalene	U	700J	660J	260J	280J	330
4-Chloroaniline	U	U	U	U	U	330
Hexachlorobutadiene	U	U	U	U	U	330
4-Chloro-3-methylphenol	U	U	U	U	U	330
2-Methylnaphthalene	U	430J	440J	190J	230J	330
Hexachlorocyclopentadiene	U	U	U	U	U	330
2,4,6-Trichlorophenol	U	U	U	U	U	330
2,4,5-Trichlorophenol	U	U	U	U	U	800
2-Chloronaphthalene	U	U	U	U	U	330
2-Nitroaniline	U	U	U	U	U	800
Dimethylphthalate	U	U	U	U	U	330
Acenaphthylene	U	2,500J	3,500	600	710	330
2,6-Dinitrotoluene	U	U	U	U	U	330
3-Nitroaniline	U	U	U	U	U	800
Acenaphthene	U	240J	290J	45J	U	330

U, J - See Appendix for definition.
Note: Sample detection limit = quantitation limit x dilution factor.

TABLE 4.2
30930-0060
ROUX ASSOCIATES
EPA TCL SEMI-VOLATILE ORGANICS

All values are ug/Kg.

	Sample Identification					
Dilution Factor	1.0	9.28	9.28	1.14	1.14	
Method Blank I.D.	SBLK51	SBLK51	SBLK51	SBLK51	SBLK51	
Compound	Method Blank	S-101	S-101 RE	S-102	S-102 RE	Quantitation Limits with no Dilution
2,4-Dinitrophenol	U	U	U	U	U	800
4-Nitrophenol	U	U	U	U	U	800
Dibenzofuran	U	500J	600J	210J	180J	330
2,4-Dinitrotoluene	U	U	U	U	U	330
Diethylphthalate	U	U	U	41J	40J	330
4-Chlorophenyl-phenylether	U	U	U	U	U	330
Fluorene	U	460J	600J	U	U	330
4-Nitroaniline	U	U	U	U	U	800
4,6-Dinitro-2-methylphenol	U	U	U	U	U	800
N-Nitrosodiphenylamine (1)	U	U	U	U	U	330
4-Bromophenyl-phenylether	U	U	U	U	U	330
Hexachlorobenzene	U	U	U	U	U	330
Pentachlorophenol	U	U	U	U	U	800
Phenanthrene	U	3,100	3,600	680	630	330
Anthracene	U	3,100	3,200	370J	340J	330
Carbazole	U	3,600	2,300J	200J	350J	330
Di-n-butylphthalate	19J	U	160JB	49JB	U	330
Fluoranthene	U	7,000	6,800	260J	220J	330
Pyrene	U	6,900	7,800	U	710	330
Butylbenzylphthalate	5J	U	U	U	U	330
3,3'-Dichlorobenzidine	U	U	U	U	U	330
Benzo(a)anthracene	U	3,900	4,600	690	730	330
Chrysene	U	4,900	6,500	1,500	1,100	330
bis(2-Ethylhexyl)phthalate	28J	1,900JB	2,400JB	U	U	330
Di-n-octylphthalate	U	U	U	U	U	330
Benzo(b)fluoranthene	U	3,200	3,500	1,200	760	330
Benzo(k)fluoranthene	U	5,100	3,800	860	670	330
Benzo(a)pyrene	U	5,700	4,000	2,100	2,100	330
Indeno(1,2,3-cd)pyrene	U	920J	1,200J	770	670	330
Dibenzo(a,h)anthracene	U	U	U	250J	180J	330
Benzo(g,h,i)perylene	U	700J	550J	670	280J	330

U, J, B, (1) - See Appendix for definition.
Note: Sample detection limit = quantitation limit x dilution factor.

TABLE 5.0
30930-0060
ROUX ASSOCIATES
SEMI-VOLATILE TENTATIVELY IDENTIFIED COMPOUNDS

Sample Identification: Method Blank SBLK53

CAS#	Compound	RT	Estimated Concentration, ug/L
	Unknown	8.89	12J
	Aldol condensation product	8.47	6JA
	Unknown	9.56	3J
	Unknown	10.61	2J

Sample Identification: FB 011893

CAS#	Compound	RT	Estimated Concentration, ug/L
149575	Hexanoic acid, 2-ethyl	13.98	13JN
	Unknown	8.73	11JB
	Aldol condensation product	8.31	6JAB
	Unknown	9.41	3JB

Sample Identification: Method Blank SBLK51

CAS#	Compound	RT	Estimated Concentration, ug/Kg
	Aldol condensation product	8.64	13,000JA
	Unknown	7.91	1,200J
	Unknown	8.14	910J
625865	Furan,2,5-dimethyl	5.04	730JN
	Unknown	10.25	560J
	Unknown hydrocarbon	8.33	390J
4436753	3-Hexene-2,5-dione	10.92	370JN
	Unknown acid	20.81	360J
110861	Pyridine	5.97	220JN
4127473	3-Penten-2-one,4-methyl-	7.40	200JN
3404782	2-Hexene,2,5-dimethyl-	7.50	140JN
	Unknown	35.30	140J
7116861	1-hexene,5,5-dimethyl-	12.25	98JN
	Unknown hydrocarbon	12.96	94J
	Unknown alkane	9.04	84J
	Unknown	10.13	84J
	Unknown alkane	9.21	83J

J, A, B, N - See Appendix for definition.

TABLE 5.1
30930-0060
ROUX ASSOCIATES
SEMI-VOLATILE TENTATIVELY IDENTIFIED COMPOUNDS

Sample Identification: Method Blank SBLK51 (continued)

CAS#	Compound	RT	Estimated Concentration, ug/Kg
	Unknown	35.83	81J
	Unknown	7.68	77J
	Unknown	11.76	67J

Sample Identification: S-99

CAS#	Compound	RT	Estimated Concentration, ug/Kg
	Aldol condensation product	8.50	13,000JAB
	Unknown	12.91	2,600J
	Unknown	7.91	1,100JB
	Unknown	10.81	730JB
	Unknown	7.77	730JB
	Unknown C_8H_8	9.58	630J
	Unknown acid	14.92	540J
	Unknown	30.76	480J
	Unknown	10.43	470J
	Unknown	10.12	410J
	Unknown C_3 alkylbenzene	10.35	280J
	Unknown alkane	8.19	230J
	Unknown	20.67	220JB
	Unknown	23.07	170J
	Unknown acid	25.40	140J
	Unknown	13.86	140J
	Unknown	12.74	130J
	Unknown	11.21	120J
	Unknown	7.27	120J
	Unknown	11.13	120J
	Unknown alkane	24.76	100J

J, A, B - See Appendix for definition.

TABLE 5.2
30930-0060
ROUX ASSOCIATES
SEMI-VOLATILE TENTATIVELY IDENTIFIED COMPOUNDS

Sample Identification: S-100

CAS#	Compound	RT	Estimated Concentration, ug/Kg
	Aldol condensation product	8.48	14,000JAB
	Unknown	12.90	3,100J
	Unknown	10.44	2,600J
	Unknown	7.76	1,400JB
	Unknown	10.80	850J
	Unknown	10.11	500JB
	Unknown	11.20	260J
	Unknown alkane	8.18	240J
	Unknown	7.25	170J
	Unknown	12.73	110J
	Unknown	13.84	110J
	Unknown	20.68	100J
	Unknown	17.55	99J
	Unknown alkane	19.88	99J
	Unknown alkane	12.58	96J
	Unknown alkane	22.52	91J
	Unknown alkane	13.09	89J
	Unknown alkane	21.20	88J
	Unknown	8.80	85J
	Unknown alkane	12.32	84J

Sample Identification: S-101

CAS#	Compound	RT	Estimated Concentration, ug/Kg
	Aldol condensation product	8.37	59,000JAB
	Unknown	7.67	3,700JB
	Unknown	10.72	3,100J
	Unknown	12.78	1,900J
	Unknown	10.35	1,100J
	Unknown alkane	22.46	780J

J, A, B - See Appendix for definition.

TABLE 5.3
30930-0060
ROUX ASSOCIATES
SEMI-VOLATILE TENTATIVELY IDENTIFIED COMPOUNDS

Sample Identification: S-101 RE

CAS#	Compound	RT	Estimated Concentration, ug/Kg
	Aldol condensation product	8.43	61,000JAB
	Unknown	7.75	3,700JB
	Unknown	10.80	3,000J
	Unknown	12.86	1,400J
	Unknown	10.44	1,300J
	Unknown alkane	22.57	690J

Sample Identification: S-102

CAS#	Compound	RT	Estimated Concentration, ug/Kg
	Aldol condensation product	8.59	12,000JAB
	Unknown	7.88	1,600JB
	Unknown	8.02	1,100J
	Unknown	10.91	1,000J
	Unknown	13.00	880J
	Unknown	10.54	660J
	Unknown	10.24	500J
	Unknown	12.91	330J
	Unknown hydrocarbon	7.37	320J
	Unknown MW=142	17.40	220J
	Unknown MW=142	17.68	220J
	Unknown	11.12	190J
	Unknown	13.96	190J
	Unknown	12.12	150J
	Unknown alkane	20.01	150J
	Unknown alkane	18.62	140J
	Unknown alkane	8.29	140J
	Unknown dimethyl naphthalene	19.30	130J
	Unknown	16.52	110J
	Unknown	13.38	110J
	Unknown	10.47	110J

J, A, B - See Appendix for definition.

TABLE 5.4
30930-0060
ROUX ASSOCIATES
SEMI-VOLATILE TENTATIVELY IDENTIFIED COMPOUNDS

Sample Identification: S-102 RE

CAS#	Compound	RT	Estimated Concentration, ug/Kg
	Aldol condensation product	8.44	12,000JAB
	Unknown	12.87	2,100J
	Unknown	10.76	980J
	Unknown	7.72	980JB
	Unknown	7.86	900J
	Unknown	10.38	640J
	Unknown	10.07	500J
	Unknown hydrocarbon	7.21	400J
	Unknown	10.96	290J
	Unknown MW=142	17.50	250J
	Unknown	10.32	200J
	Unknown	13.78	190J
	Unknown	14.89	170J
	Unknown alkane	8.13	140J
	Unknown	11.96	140J
	Unknown	16.34	130J
	Unknown dimethyl napthalene	19.11	130J
	Unknown alkane	19.84	130J
	Unknown alkane	18.44	120J
	Unknown	12.74	99J
	Unknown dimethyl naphthalene	18.88	92J

J, A, B - See Appendix for definition.

Aqueous

TABLE 6.0
30930-0060
ROUX ASSOCIATES
POLYCHLORINATED BIPHENYLS (PCB's)

All values are ug/L.

	Sample Identification		
Dilution Factor	1.0	1.0	
Method Blank I.D.	PBLK40	PBLK40	
Compound	Method Blank	FB 011893	Quantitation Limits with no Dilution
PCB - 1016	U	U	1.0
PCB - 1221	U	U	2.0
PCB - 1232	U	U	1.0
PCB - 1242	U	U	1.0
PCB - 1248	U	U	1.0
PCB - 1254	U	U	1.0
PCB - 1260	U	U	1.0

U - See Appendix for definition.
Note: Sample detection limit = quantitation limit x dilution factor.

Aqueous

TABLE 6.1
30930-0060
ROUX ASSOCIATES
POLYCHLORINATED BIPHENYLS (PCB'S)

All values are ug/L.

	Sample Identification		
Dilution Factor	1.0	1.0	
Method Blank I.D.	PBLK53	PBLK53	
Compound	Method Blank	FB 012093	Quantitation Limits with no Dilution
PCB - 1016	U	U	1.0
PCB - 1221	U	U	2.0
PCB - 1232	U	U	1.0
PCB - 1242	U	U	1.0
PCB - 1248	U	U	1.0
PCB - 1254	U	U	1.0
PCB - 1260	U	U	1.0

U - See Appendix for definition.
Note: Sample detection limit = quantitation limit x dilution factor.

Soil

TABLE 6.2
30930-0060
ROUX ASSOCIATES
POLYCHLORINATED BIPHENYLS (PCB'S)

All values are ug/Kg.

Sample Identification

Dilution Factor	1.0	1.14	11.4	114.0	10.0	10.0	
Method Blank I.D.	PBLK44	PBLK44	PBLK44	PBLK44	PBLK44	PBLK44	
Compound	Method Blank	S-99	S-100	S-100 DL	S-100 MS	S-100 MSD	Quantitation Limits with no Dilution
PCB - 1016	U	U	U	U	U	U	33
PCB - 1221	U	U	U	U	U	U	67
PCB - 1232	U	U	U	U	U	U	33
PCB - 1242	U	U	U	U	U	U	33
PCB - 1248	U	U	U	U	U	U	33
PCB - 1254	U	U	U	U	U	U	33
PCB - 1260	U	120P	5,400P	4,100PD	5,300P	5,300P	33

Sample Identification

Dilution Factor	116.0	1,160.0	11.4	114.0	12.1	121.0	
Method Blank I.D.	PBLK44	PBLK44	PBLK44	PBLK44	PBLK44	PBLK44	
Compound	S-101	S-101 DL	S-102	S-102 DL	CS-43	CS-43 DL	Quantitation Limits with no Dilution
PCB - 1016	U	U	U	U	U	U	33
PCB - 1221	U	U	U	U	U	U	67
PCB - 1232	U	U	U	U	U	U	33
PCB - 1242	U	U	U	U	U	U	33
PCB - 1248	U	U	U	U	U	U	33
PCB - 1254	U	U	U	U	U	U	33
PCB - 1260	58,000P	71,000PD	1,400P	2,300JPD	1,400P	3,000JD	33

U, J, P, D - See Appendix for definition.
Note: Sample detection limit = quantitation limit x dilution factor.

Soil

TABLE 6.3
30930-0060
ROUX ASSOCIATES
POLYCHLORINATED BIPHENYLS (PCB'S)

All values are ug/Kg.

Sample Identification

Dilution Factor	1.0	11.1	111.0	110.0	1,100.0	1.15	
Method Blank I.D.	PBLK51	PBLK51	PBLK51	PBLK51	PBLK51	PBLK51	
Compound	Method Blank	CS-75	CS-75 DL	S-103	S-103 DL	CS-51	Quantitation Limits with no Dilution
PCB - 1016	U	U	U	U	U	U	33
PCB - 1221	U	U	U	U	U	U	67
PCB - 1232	U	U	U	U	U	U	33
PCB - 1242	U	U	U	U	U	U	33
PCB - 1248	U	U	U	U	U	U	33
PCB - 1254	U	U	U	U	U	U	33
PCB - 1260	U	3,600CP	6,900PD	40,000P	65,000PD	1,100P	33

Sample Identification

Dilution Factor	11.5	1.15	11.5	1.14	11.4	
Method Blank I.D.	PBLK51	PBLK51	PBLK51	PBLK51	PBLK51	
Compound	CS-51 DL	CS-50	CD-50 DL	S-115	S-115 DL	Quantitation Limits with no Dilution
PCB - 1016	U	U	U	U	U	33
PCB - 1221	U	U	U	U	U	67
PCB - 1232	U	U	U	U	U	33
PCB - 1242	U	U	U	U	U	33
PCB - 1248	U	U	U	U	U	33
PCB - 1254	U	U	U	U	U	33
PCB - 1260	1,100PD	250P	270JPD	480P	590PD	33

U, J, P, D, C - See Appendix for definition.
Note: Sample detection limit = quantitation limit x dilution factor.

TABLE 6.4
30930-0060
ROUX ASSOCIATES
POLYCHLORINATED BIPHENYLS (PCB'S)

All values are ug/Kg.

Sample Identification

Dilution Factor	1.0	11.4	114.0	1.18	11.8	11.4	
Method Blank I.D.	PBLK51	PBLK51	PBLK51	PBLK51	PBLK51	PBLK51	
Compound	Method Blank	S-113	S-113 DL	S-111	S-111 DL	CS-49	Quantitation Limits with no Dilution
PCB - 1016	U	U	U	U	U	U	33
PCB - 1221	U	U	U	U	U	U	67
PCB - 1232	U	U	U	U	U	U	33
PCB - 1242	U	U	U	U	U	U	33
PCB - 1248	U	U	U	U	U	U	33
PCB - 1254	U	U	U	U	U	U	33
PCB - 1260	U	3,100P	3,400JPD	1,300	1,500PD	2,800CP	33

Sample Identification

Dilution Factor	114.0	108.0	1,080.0	1.16	11.6	
Method Blank I.D.	PBLK51	PBLK51	PBLK51	PBLK51	PBLK51	
Compound	CS-49 DL	S-114	S-114 DL	S-112	S-112 DL	Quantitation Limits with no Dilution
PCB - 1016	U	U	U	U	U	33
PCB - 1221	U	U	U	U	U	67
PCB - 1232	U	U	U	U	U	33
PCB - 1242	U	U	U	U	U	33
PCB - 1248	U	U	U	U	U	33
PCB - 1254	U	U	U	U	U	33
PCB - 1260	3,500JPD	120,000P	90,000PD	1,600P	1,700PD	33

U, J, P, D, C - See Appendix for definition.
Note: Sample detection limit = quantitation limit x dilution factor.

TABLE 7.0
30930-0060
ROUX ASSOCIATES
TAL METALS

All values are ug/L.

Parameter	FB 011893
Aluminum	22.0U
Antimony	21.0U
Arsenic	1.0U
Barium	6.0U
Beryllium	1.0U
Cadmium	2.0U
Calcium	11.0U
Chromium	3.0U
Cobalt	3.0U
Copper	3.0U
Iron	82.0U
Lead	1.0UW
Magnesium	23.1B
Manganese	1.0U
Mercury	0.20U
Nickel	21.0U
Potassium	626U
Selenium	2.0U
Silver	3.0U
Sodium	29.0U
Thallium	2.0U
Vanadium	6.0U
Zinc	4.0U

B, U, W - See Metals Appendix for definition.

TABLE 7.1
30930-0060
ROUX ASSOCIATES
TAL METALS

All values are mg/Kg dry basis.

Parameter	CS-43	S-99	S-100	S-101	S-102
Aluminum	NR	9,370	8,330	4,050	3,020
Antimony	NR	4.2U	4.3U	4.3U	10.7B
Arsenic	NR	16.8NS	7.7N	25.0N	21.2N
Barium	NR	50.6	84.8	154	74.5
Beryllium	NR	0.22B	0.20U	0.21U	0.20U
Cadmium	NR	0.40U	1.6	9.2	1.4
Calcium	NR	920B	5,900	8,680	1,630
Chromium	NR	18.8	23.2	124	29.4
Cobalt	NR	7.5B	6.7B	12.7	6.5B
Copper	NR	90.7N	132N	629N	344N
Iron	NR	21,300	21,800	91,800	41,800
Lead	NR	61.9	251	1,190	393
Magnesium	NR	2,180	2,510	2,370	1,180
Manganese	NR	321	318	667	233
Mercury	22.5	0.20	0.49	1.3	0.94
Nickel	NR	13.8	20.6	168	26.1
Potassium	NR	762B	804B	928B	616B
Selenium	NR	0.40UN	0.52BNW	0.78BN	1.4N
Silver	NR	0.60U	0.61U	0.62U	0.59U
Sodium	NR	96.9B	120B	260B	144B
Thallium	NR	0.40U	0.36U	0.45U	0.40U
Vanadium	NR	30.6	38.0	41.8	41.7
Zinc	NR	56.8	275	1,310	134

B, N, U, W - See Metals Appendix for definition.

NR - Not Requested

APPENDIX

U - Indicates that the compound was analyzed for but not detected.

J - Indicates that the compound was analyzed for and determined to be present in the sample. The mass spectrum of the compound meets the identification criteria of the method. The concentration listed is an estimated value, which is less than the specified minimum detection limit but is greater than zero.

B - This flag is used when the analyte is found in the blanks as well as the sample. It indicates possible sample contamination and warns the data user to use caution when applying the results of this analyte.

N - Indicates that the compound was analyzed for but not requested as an analyte. Value will not be listed on tabular result sheet.

S - Estimated due to surrogate outliers.

X - Matrix spike compound.

(1) - Cannot be separated.

(2) - Decomposes to azobenzene. Measured and calibrated as azobenzene.

A - This flag indicates that a TIC is a suspected aldol condensation product.

E - Indicates that it exceeds calibration curve range.

D - This flag identifies all compounds identified in an analysis at a secondary dilution factor.

C - Confirmed by GC/MS.

T - Compound present in TCLP blank.

P - This flag is used for a pesticide/aroclor target analyte when there is a greater than 25 percent difference for detected concentrations between the two GC columns (see Form X).

APPENDIX/METALS DATA

C - Concentration qualifiers

U - Indicates analyte result less than instrument detection limit (IDL)

B - Indicates analyte result between IDL and contract required detection limit (CRDL)

Q - QC qualifiers

E - Reported value is estimated because of the presence of interference

M - Duplicate injection precision not met

N - Spiked sample recovery not within control limits

S - The reported value was determined by the method of standard additions (MSA)

W - Post-digest spike recovery furnace analysis was out of 85-115 percent control limit, while sample absorbance was less than 50 percent of spike absorbance

* - Duplicate analysis not within control limit

+ - Correlation coefficient for MSA is less than 0.995

M - Method codes

P - ICP

A - Flame AA

F - Furnace AA

CV - Cold vapor AA (manual)

C - Cyanide

NR - Not Required

NC - Not Calculated as per protocols

STATE CERTIFICATIONS

In some instances it may be necessary for environmental data to be reported to a regulatory authority with reference to a certified laboratory. For your convenience, the laboratory identification numbers for the IEA-Connecticut laboratory are provided in the following table. Many states certify laboratories for specific parameters or tests within a category (i.e. method 325.2 for wastewater). The information in the following table indicates the lab is certified in a general category of testing such as drinking water or wastewater analysis. The laboratory should be contacted directly if parameter-specific certification information is required.

IEA-Connecticut
Certification Summary (as of June 1992)

State	Responsible Agency	Certification	Lab Number
Connecticut	Department of Health Services	Drinking Water, Wastewater	PH-0497
Kansas	Department of Health and Environmental Services	Drinking Water, Wastewater/Solid, Hazardous Waste	E-210/E-1185
Massachusetts	Department of Environmental Protection	Potable/Non-Potable Water	CT023
New Hampshire	Department of Environmental Services	Drinking Water, Wastewater	252891
New Jersey	Department of Environmental Protection	Drinking Water, Wastewater	46410
New York	Department of Health	CLP, Drinking Water, Wastewater, Solid/ Hazardous Waste	10602
North Carolina	Division of Environmental Management	Wastewater	388
Rhode Island	Department of Health	Chemistry...Non-Potable Water and Wastewater	A43

IEA
An Aquarion Company

200 Monroe Turnpike
Monroe, Connecticut 06468

Phone 203·261·4458
Fax 203·268·5346

SAMPLE DATA SUMMARY PACKAGE

CLIENT:	ROUX ASSOCIATES
PROJECT ID:	AMTRAK SUNNYSIDE
P.O.#	05526Y
SDG#:	Z0060
IEA ID:	30930-0060

Sunrise, Florida 305·846·1730
Schaumburg, Illinois 708·705·0740
N. Billerica, Massachusetts 617·272·5212
Whippany, New Jersey 201·428·8181
Research Triangle Park, North Carolina 919·677·0090
Essex Junction, Vermont 802·878·5138

APPENDIX A
NYSDEC ANALYTICAL DATA FORMS

0001

JOB # : 3093-0050

CLIENT NAME : ROUX ASSOCIATES

PROJECT ID : AMTRAC SUNNYSIDE

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE IDENTIFICATION AND
ANALYTICAL REQUIREMENT SUMMARY

JOB # : 3093-0060

CUSTOMER SAMPLE CODE	LABORATORY SAMPLE CODE	ANALYTICAL REQUIREMENTS*						
		*VOA GC/MS	*BNA GC/MS	*VOA GC	*PEST PCB	*METALS	*OTHER	*OTHER
S-99	0060001	X	X		X	X		
S-100	0060002	X	X		X	X		
S-101	0060003	X	X		X	X		
S-102	0060004	X	X		X	X		
CS-43	0060005		X		X	X		
FIELD BLANK	0060006	X	X		X	X		
TRIP BLANK 1/18/93	0060007	X						
CS-75	0060008		X		X			
S-103	0060009				X			
CS-51	0060010		X		X			
CS-50	0060011		X		X			
S-115	0060012				X			
S-113	0060013				X			
S-111	0060014				X			
CS-49	0060015		X					
FIELD BLANK 1/20/93	0060016				X			
S-114	0060017				X			
S-112	0060018				X			

* Check Appropriate Boxes

* CLP, Non-CLP
* HSL, Priority Pollutant

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
VOA - TCL + TIC's
ANALYSIS

JOB # : 3093-0060

0003

SAMPLE ID	MATRIX	DATE COLLECTED	DATE RECVD AT LAB	DATE EXTRACTED	DATE ANALYZED
S-99	Soil	01/18/93	01/19/93	N/A	01/26/93
S-100	Soil		01/19/93		
S-101	Soil		01/19/93		
S-102	Soil		01/19/93		
FIELD BLANK	Aqueous		01/19/93		
TRIP BLANK 1/18/93	Aqueous		01/19/93		

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

0004

SAMPLE PREPARATION AND ANALYSIS SUMMARY
B/N-A - TCL + TIC's
ANALYSIS

JOB # : 3093-0060

SAMPLE ID	MATRIX	DATE COLLECTED	DATE RECVD AT LAB	DATE EXTRACTED	DATE ANALYZED
S-99	Soil	01/18/93	01/19/93	01/20/93	02/02/93
S-100	Soil	↓	01/19/93	↓	02/01/93
S-101	Soil	↓	01/19/93	↓	02/01/93
S-102	Soil	↓	01/19/93	↓	01/29/93
FIELD BLANK	Aqueous	01/18/93	01/19/93	01/21/93	02/01/93
S-100MS	SOIL	01/18/93	01/19/93	01/20/93	02/02/93
S-100MSD	↓	↓	↓	↓	↓
S-101RE	↓	↓	↓	↓	02/02/93
S-102RE	↓	↓	↓	↓	02/01/93
S-100MSB	↓	NA	↓	↓	02/01/93
&QC CHECK	↓	NA	↓	↓	02/01/93

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
B/N-A - TCL + TIC's
ORGANIC ANALYSIS

JOB # : 3093-0060

SAMPLE ID	MATRIX	ANALYTICAL PROTOCOL	EXTRACTION METHOD	AUXILARY CLEAN UP	DIL/CONC FACTOR
S-99	Soil	NYSDEC'91	SONC.	GPC	1.0
S-100	Soil				1.0
S-101	Soil				8.0
S-102	Soil				1.0
FIELD BLANK	Aqueous		CONT SONC	NONE GPC	
S-100MS	SOIL				8.0
S-100MSD					1.0
S-101RE					
S-102RE					
S-100MSB					
& QC CHECK					

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

0006

SAMPLE PREPARATION AND ANALYSIS SUMMARY
PESTICIDE/PCB
ANALYSES

Laboratory Sample ID	Matrix	Date Collected	Date Rec'd at Lab	Date Extracted	Date Analyzed
S-99	SOIL	01/18/93	01/19/93	01/21/93	02/18/93
S-100					02/10/93
S-100DL					"
S-100MS					02/12/93
S-100MSD					02/13/93
S-100MSS					02/10/93
QC CHECKSTD					02/12/93
S-101					02/10/93
S-101DL					
S-102					"
S-102DL					"
CS-43					
CS-43DL		"	"	"	"
CS-75		01/19/93	01/21/93	01/22/93	02/11/93
CS-75DL					
S-103					"
S-103DL		"			02/16/93
CS-51		01/20/93			02/13/93
CS-51DL					
CS-50					
CS-50DL	"	"	"	"	"

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION 0007

SAMPLE PREPARATION AND ANALYSIS SUMMARY
PESTICIDE/PCB
ANALYSES

Laboratory Sample ID	Matrix	Date Collected	Date Rec'd at Lab	Date Extracted	Date Analyzed
S-115	SOIL	01/20/93	01/21/93	01/22/93	02/13/93
S-115DL	↓	↓	↓	↓	↓
S-113					↓
S-113DL					02/20/93
S-111					02/14/93
S-111DL					↓
CS-49					↓
CS-49DL					02/20/93
S-114					02/16/93
S-114DL					↓
S-112					↓
S-112DL	↓	↓	↓	↓	↓
FIELD BLK 1/18	WATER	01/18/93	01/19/93	01/19/93	02/11/93
FIELD BLK. 1/20	↓	01/20/93	01/21/93	01/22/93	02/11/93

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
INORGANIC ANALYSIS

0008

JOB # : 3093-0060

ICAP

SAMPLE ID	MATRIX	METALS REQUESTED	DATE RECEIVED	DATE DIGESTED	DATE ANALYZED
S-99	Soil	TAL METALS	01/19/93	1/26/93	2/19/93
S-100	Soil	TAL METALS	01/19/93		
S-101	Soil	TAL METALS	01/19/93		
S-102	Soil	TAL METALS	01/19/93		
FIELD BLANK	Aqueous	TAL METALS	01/19/93	1/26/93	2/22/93

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
INORGANIC ANALYSIS

JOB # : 3093-0060

Furnace

SAMPLE ID	MATRIX	METALS REQUESTED	DATE RECEIVED	DATE DIGESTED	DATE ANALYZED
S-99	Soil	TAL METALS	01/19/93	1/25/93	2/1-2, 5-2/93
S-100	Soil	TAL METALS	01/19/93		
S-101	Soil	TAL METALS	01/19/93		
S-102	Soil	TAL METALS	01/19/93		
FIELD BLANK	Aqueous	TAL METALS	01/19/93	1/26/93	2/1-2 5/93

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

0010

SAMPLE PREPARATION AND ANALYSIS SUMMARY
INORGANIC ANALYSIS

JOB # : 3093-0060

Mercury

SAMPLE ID	MATRIX	METALS REQUESTED	DATE RECEIVED	DATE DIGESTED	DATE ANALYZED
S-99	Soil	TAL METALS	01/19/93	1/28/93	1/28/93
S-100	Soil	TAL METALS	01/19/93		
S-101	Soil	TAL METALS	01/19/93		
S-102	Soil	TAL METALS	01/19/93		
FIELD BLANK	Aqueous	TAL METALS	01/19/93	2/2/93	2/3/93

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

0011

SAMPLE PREPARATION AND ANALYSIS SUMMARY
INORGANIC ANALYSIS

JOB # : 3093-0060

SAMPLE ID	MATRIX	METALS REQUESTED	DATE RECEIVED	DATE DIGESTED	DATE ANALYZED
CS-43	Soil	MERCURY	01/19/93	2/12/93	2/12/93

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
TAL METALS
INORGANIC ANALYSIS

JOB # : 3093-0060

ICAP

LABORATORY SAMPLE CODE	MATRIX	ANALYTICAL PROTOCOL	DIGESTION PROCEDURE	MATRIX MODIFIER	DIL/CONC FACTOR
S-99	Soil	CLP	HNO_3, HCl	N/A	1:1
S-100	Soil	↓	↓	↓	↓
S-101	Soil				
S-102	Soil				
FIELD BLANK	Aqueous				

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
TAL METALS
INORGANIC ANALYSIS

JOB # : 3093-0060

Furnace: As, Se

LABORATORY SAMPLE CODE	MATRIX	ANALYTICAL PROTOCOL	DIGESTION PROCEDURE	MATRIX MODIFIER	DIL/CONC FACTOR
S-99	Soil	CLP	HNO3, H2O2	Nickel Nitrate	1:1
S-100	Soil				1:1
S-101	Soil				As 1:4 Se 1:1
S-102	Soil				As 1:4 Se 1:1
FIELD BLANK	Aqueous				1:1

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
TAL METALS
INORGANIC ANALYSIS

JOB # : 3093-0060

Fuccaro - TI

LABORATORY SAMPLE CODE	MATRIX	ANALYTICAL PROTOCOL	DIGESTION PROCEDURE	MATRIX MODIFIER	DIL/CONC FACTOR
S-99	Soil	CLP	HNO_3, H_2O_2	Heat	1:1
S-100	Soil	↓	↓	↓	↓
S-101	Soil				
S-102	Soil				
FIELD BLANK	Aqueous				

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
TAL METALS
INORGANIC ANALYSIS

JOB # : 3093-0060

Furnace - Pb

LABORATORY SAMPLE CODE	MATRIX	ANALYTICAL PROTOCOL	DIGESTION PROCEDURE	MATRIX MODIFIER	DIL/CONC FACTOR
S-99	Soil	CLP	HNO_3, H_2O_2	Ni Nitrate, Ascorbic	1:50
S-100	Soil				1:50
S-101	Soil				1:100
S-102	Soil				1:100
FIELD BLANK	Aqueous				1:1

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
TAL METALS
INORGANIC ANALYSIS

JOB # : 3093-0060

Mercury

LABORATORY SAMPLE CODE	MATRIX	ANALYTICAL PROTOCOL	DIGESTION PROCEDURE	MATRIX MODIFIER	DIL/CONC FACTOR
S-99	Soil	CLP	Manual Cold Vapor	N/A	1:1
S-100	Soil	↓	↓	↓	↓
S-101	Soil				
S-102	Soil				
FIELD BLANK	Aqueous				

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

0017

SAMPLE PREPARATION AND ANALYSIS SUMMARY
MERCURY
INORGANIC ANALYSIS

JOB # : 3093-0060

LABORATORY SAMPLE CODE	MATRIX	ANALYTICAL PROTOCOL	DIGESTION PROCEDURE	MATRIX MODIFIER	DIL/CONC FACTOR
CS-43	Soil	CLP	Manual Cold Vapor	N/A	1:10

IEA
An Aquarion Company

200 Monroe Turnpike
Monroe, Connecticut 06468

Phone 203·261·4458
Fax 203·268·5346

30930-0060
ROUX ASSOCIATES

SDG Narrative

Volatile Organics - In order to meet the 7-day from receipt holding time, the field blanks and the trip blank were analyzed along with the soil sample on a soil calibration curve.

Extractions - Sample S-100 for PCB's was inadvertently spiked with the incorrect concentration of the standard solution. The sample was re-extracted on 02/01/93 using the correct solution.

Semi-Volatile Organics - Samples S-101, S-100, S-100 MS, S-100 MSD and S-102 exhibited internal standard area suppression. Samples S-101 and S-102 were reanalyzed with similar results, therefore proving matrix interference. Samples S-100 MS and S-100MSD confirmed the matrix interference for sample S-100. Both analyses have been reported with the reanalysis designated with the suffix "RE".

PCB's - Samples S-100, S-100 MS, S-00 MSD, S-101, CS-75, S-103, CS-51, CS-50, S115, S-113, S-111, CS-49, S-114 and S-112 required dilutions because of the high concentration of aroclor 1260.

The third peak used for calculation of aroclor 1260 in sample S-112 was outside of RT windows due to matrix interference.

Samples S-102 and CS-43 required dilutions due to the sample matrix. The third peak used for calculation or aroclor 1260 in sample CS-43 was outside of RT windows.

After sample CS-43 was diluted, the aroclor present was indistinguishable on the RTX-35 column, therefore the results reported are from column DB-1701. The third peak of aroclor 1260 was outside of RT windows.

Samples CS-75 and CS-49 were confirmed by GC/MS for aroclor 1260.

There was no aroclor 1242 injected within 72 hours of the QC check standard on column 2, however the aroclors run every 72 hours are not used for quantitation, only for pattern recognition. Since this is a spike sample, aroclor 1242 is a known compound.

Because of the very high concentration of aroclor 1260 in sample S-100 and the dilution required, the spike percent recovery could not be calculated.

All samples with dilution factors of 100 and higher had surrogates diluted out.

In sample CS-50 and CS-50 DL, DCB was lost in matrix and is not reported.

DCB was below advisory QC limits on column 1 in samples FB 011893 and FB 012093 and method blank PBLK40.

DCB was below advisory QC limits on column 2 in sample FB 011893 and method blanks PBLK53, PBLk40 and PBLK51 and on column 1 in sample S-111 DL.

TCX was below advisory QC limits on column 2 in sample S-99 and method blanks PBLK44 and PBLK51.

DCB had high recovery because of interference with aroclors on column 1 in samples CS-43, S-100 MSD, CS-5-1 DL, CS-51, S-115 DL, S-113 and on column 2 in samples S-102, S-100 MS, S-100 MSD, CS-51 DL, CS-51, S-115 DL, S-111 DL, CS-49 and S-112 DL.

Many results have "P" flags due to the large percent RPD between column concentrations. This is believed to be due to the sample matrix.

Metals - IEC's are electronically employed by the TJA ICAP-61. However, the ICSA is utilized as a monitoring device to detect any additional adjustments that may be required. These modifications are calculated and applied manually. They are so noted in the raw data.

Copper, arsenic and selenium failed the control limits for spike recovery analysis of sample S-100, resulting in three "N" flags. It was noted during sample digestion that the sample contained numerous rocks. A problem with sample homogeneity appears to be the cause for the resultant flags.

No other problems were noted.

I certify that this data package is in compliance with the terms of this contract, both technically and for completeness, for other than the conditions detailed above. Release of this hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Jeffrey C. Curran
Laboratory Manager

March 5, 1993
Date

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S-99

Lab Name: IEA/CT Contract: 0044

Lab Code: IEACT Case No.: 0060 SAS No.: SDG No.: Z0060

Matrix: (soil/water) SOIL Lab Sample ID: 0060001

Sample wt/vol: 5.0 (g/mL) G Lab File ID: G3851.D

Level: (low/med) LOW Date Received: 01/19/93

% Moisture: not dec. 9 Data Analyzed: 01/26/93

GC Column: 007-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	10	JB
67-64-1	Acetone	11	B
75-15-0	Carbon Disulfide	11	U
75-35-4	1,1-Dichloroethene	11	U
75-34-3	1,1-Dichloroethane	11	U
540-59-0	1,2-Dichloroethene (total)	11	U
67-66-3	Chloroform	11	U
107-06-2	1,2-Dichloroethane	11	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	11	U
56-23-5	Carbon Tetrachloride	11	U
75-27-4	Bromodichloromethane	11	U
78-87-5	1,2-Dichloropropane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
79-01-6	Trichloroethene	11	U
124-48-1	Dibromochloromethane	11	U
79-00-5	1,1,2-Trichloroethane	11	U
71-43-2	Benzene	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
75-25-2	Bromoform	11	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
108-88-3	Toluene	2	JB
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	11	U
100-42-5	Styrene	11	U
1330-20-7	Xylene (total)	11	U

1E

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

S-99

Lab Name: IEA/CT Contract: 0045

Lab Code: IEACT Case No.: 0060 SAS No.: SDG No.: Z0060

Matrix: (soil/water) SOIL Lab Sample ID: 0060001

Sample wt/vol: 5.0 (g/mL) G Lab File ID: G3851.D

Level: (low/med) LOW Date Received: 01/19/93

% Moisture: not dec. 9 Data Analyzed: 01/26/93

GC Column:007-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
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21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S-100 0052

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060 SAS No.: SDG No.: Z0060

Matrix: (soil/water) SOIL Lab Sample ID: 0060002

Sample wt/vol: 5.0 (g/mL) G Lab File ID: G3852.D

Level: (low/med) LOW Date Received: 01/19/93

% Moisture: not dec. 11 Data Analyzed: 01/26/93

GC Column: 007-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	7	JB
67-64-1	Acetone	27	B
75-15-0	Carbon Disulfide	11	U
75-35-4	1,1-Dichloroethene	11	U
75-34-3	1,1-Dichloroethane	11	U
540-59-0	1,2-Dichloroethene (total)	11	U
67-66-3	Chloroform	11	U
107-06-2	1,2-Dichloroethane	11	U
78-93-3	2-Butanone	11	U JB LMD 01/31/93
71-55-6	1,1,1-Trichloroethane	11	U
56-23-5	Carbon Tetrachloride	11	U
75-27-4	Bromodichloromethane	11	U
78-87-5	1,2-Dichloropropane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
79-01-6	Trichloroethene	11	U
124-48-1	Dibromochloromethane	11	U
79-00-5	1,1,2-Trichloroethane	11	U
71-43-2	Benzene	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
75-25-2	Bromoform	11	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
108-88-3	Toluene	2	JB
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	11	U
100-42-5	Styrene	11	U
1330-20-7	Xylene (total)	11	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

0053

S-100

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060 SAS No.: SDG No.: Z0060

Matrix: (soil/water) SOIL Lab Sample ID: 0060002

Sample wt/vol: 5.0 (g/mL) G Lab File ID: G3852.D

Level: (low/med) LOW Date Received: 01/19/93

% Moisture: not dec. 11 Data Analyzed: 01/26/93

GC Column:007-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 2 PAS 01/28/93

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		Unknown ALCOHOL	7.03	9	J
2.		Unknown ALKANE	24.87	9	J
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
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27.					
28.					
29.					
30.					

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S-101

Lab Name: IEA/CT Contract: 0065

Lab Code: IEACT Case No.: 0060 SAS No.: SDG No.: Z0060

Matrix: (soil/water) SOIL Lab Sample ID: 0060003

Sample wt/vol: 5.0 (g/mL) G Lab File ID: G3853.D

Level: (low/med) LOW Date Received: 01/19/93

% Moisture: not dec. 14 Data Analyzed: 01/26/93

GC Column: 007-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	12	U
74-83-9	Bromomethane	12	U
75-01-4	Vinyl Chloride	12	U
75-00-3	Chloroethane	12	U
75-09-2	Methylene Chloride	6	JB
67-64-1	Acetone	19	B
75-15-0	Carbon Disulfide	12	U
75-35-4	1,1-Dichloroethene	12	U
75-34-3	1,1-Dichloroethane	12	U
540-59-0	1,2-Dichloroethene (total)	12	U
67-66-3	Chloroform	12	U
107-06-2	1,2-Dichloroethane	12	U
78-93-3	2-Butanone	12	U
71-55-6	1,1,1-Trichloroethane	12	U
56-23-5	Carbon Tetrachloride	12	U
75-27-4	Bromodichloromethane	12	U
78-87-5	1,2-Dichloropropane	12	U
10061-01-5	cis-1,3-Dichloropropene	12	U
79-01-6	Trichloroethene	12	U
124-48-1	Dibromochloromethane	12	U
79-00-5	1,1,2-Trichloroethane	12	U
71-43-2	Benzene	12	U
10061-02-6	trans-1,3-Dichloropropene	12	U
75-25-2	Bromoform	12	U
108-10-1	4-Methyl-2-Pentanone	12	U
591-78-6	2-Hexanone	12	U
127-18-4	Tetrachloroethene	12	U
79-34-5	1,1,2,2-Tetrachloroethane	12	U
108-88-3	Toluene	1	JB
108-90-7	Chlorobenzene	12	U
100-41-4	Ethylbenzene	12	U
100-42-5	Styrene	12	U
1330-20-7	Xylene (total)	12	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

S-101

Lab Name: IEA/CT Contract: 0066

Lab Code: IEACT Case No.: 0060 SAS No.: SDG No.: Z0060

Matrix: (soil/water) SOIL Lab Sample ID: 0060003

Sample wt/vol: 5.0 (g/mL) G Lab File ID: G3853.D

Level: (low/med) LOW Date Received: 01/19/93

% Moisture: not dec. 14 Data Analyzed: 01/26/93

GC Column:007-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S-102

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060 SAS No.: SDG No.: Z0060

0073

Matrix: (soil/water) SOIL Lab Sample ID: 0060004

Sample wt/vol: 5.0 (g/mL) G Lab File ID: G3859.D

Level: (low/med) LOW Date Received: 01/19/93

% Moisture: not dec. 12 Data Analyzed: 01/26/93

GC Column: 007-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q	
74-87-3	Chloromethane	11	U	
74-83-9	Bromomethane	11	U	
75-01-4	Vinyl Chloride	11	U	
75-00-3	Chloroethane	11	U	
75-09-2	Methylene Chloride	8	JB	
67-64-1	Acetone	16	B	
75-15-0	Carbon Disulfide	11	U	
75-35-4	1,1-Dichloroethene	11	U	
75-34-3	1,1-Dichloroethane	11	U	
540-59-0	1,2-Dichloroethene (total)	11	U	
67-66-3	Chloroform	11	U	LMD
107-06-2	1,2-Dichloroethane	11	U	01/31/93
78-93-3	2-Butanone	11	U JB	
71-55-6	1,1,1-Trichloroethane	11	U	
56-23-5	Carbon Tetrachloride	11	U	
75-27-4	Bromodichloromethane	11	U	
78-87-5	1,2-Dichloropropane	11	U	
10061-01-5	cis-1,3-Dichloropropene	11	U	
79-01-6	Trichloroethene	11	U	
124-48-1	Dibromochloromethane	11	U	
79-00-5	1,1,2-Trichloroethane	11	U	
71-43-2	Benzene	11	U	
10061-02-6	trans-1,3-Dichloropropene	11	U	
75-25-2	Bromoform	11	U	
108-10-1	4-Methyl-2-Pentanone	11	U	
591-78-6	2-Hexanone	11	U	
127-18-4	Tetrachloroethene	11	U	
79-34-5	1,1,2,2-Tetrachloroethane	11	U	
108-88-3	Toluene	11	U	
108-90-7	Chlorobenzene	11	U	
100-41-4	Ethylbenzene	11	U	
100-42-5	Styrene	11	U	
1330-20-7	Xylene (total)	11	U	

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

S-102

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060 SAS No.: SDG No.: Z0060 0074

Matrix: (soil/water) SOIL Lab Sample ID: 0060004

Sample wt/vol: 5.0 (g/mL) G Lab File ID: G3859.D

Level: (low/med) LOW Date Received: 01/19/93

% Moisture: not dec. 12 Data Analyzed: 01/26/93

GC Column:007-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FIELDBLANK

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060 SAS No.: SDG No.: Z0060

Matrix: (soil/water) WATER Lab Sample ID: 0060006 0080

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: G3864.D

Level: (low/med) LOW Date Received: 01/19/93

% Moisture: not dec. _____ Data Analyzed: 01/26/93

GC Column: 007-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	4	J
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	B
67-64-1	Acetone	9	JB
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10 ~~0.5~~	U ~~JB~~
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

LWD 02/31/93

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

0081 FIELDBLANK

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060 SAS No.: SDG No.: Z0060

Matrix: (soil/water) WATER Lab Sample ID: 0060006

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: G3864.D

Level: (low/med) LOW Date Received: 01/19/93

% Moisture: not dec. _____ Data Analyzed: 01/26/93

GC Column: 007-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 3

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	541059	CYCLOTETRASILOXANE, HEXAMETHYL	18.31	10	JN
2.	556672	CYCLOTETRASILOXANE, OCTAMETHYL	23.12	7	JN
3.		UNKNOWN SILOXANE	25.91	7	J
4.					
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1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TRIPBLANK

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060 SAS No.: SDG No.: Z0060

Matrix: (soil/water) WATER Lab Sample ID: 0060007 0094

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: G3865.D

Level: (low/med) LOW Date Received: 01/19/93

% Moisture: not dec. _____ Data Analyzed: 01/26/93

GC Column: 007-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	20	B
67-64-1	Acetone	8	JB
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10 ~~0.6~~	U ~~JB~~
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

CWD 01/31/93

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

0095 TRIPBLANK

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060 SAS No.: SDG No.: Z0060

Matrix: (soil/water) WATER Lab Sample ID: 0060007

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: G3865.D

Level: (low/med) LOW Date Received: 01/19/93

% Moisture: not dec. _____ Data Analyzed: 01/26/93

GC Column: 007-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
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2A

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

0035

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060 SAS No.: SDG No.: Z0060

	EPA SAMPLE NO.	SMC1 (TOL) #	SMC2 (BFB) #	SMC3 (DCE) #	OTHER	TOT OUT
01	FIELDBLANK	105	113	108		0
02	TRIPBLANK	102	107	106		0
03						
04						
05						
06						
07						
08						
09						
10						
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30						

	QC LIMITS
SMC1 (TOL) = Toluene-d8	(88-110)
SMC2 (BFB) = Bromofluorobenzene	(86-115)
SMC3 (DCE) = 1,2-Dichloroethane-d4	(76-114)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

2B

SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

0036

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060 SAS No.: SDG No.: Z0060

Level: (low/med) LOW

	EPA SAMPLE NO.	SMC1 (TOL) #	SMC2 (BFB) #	SMC3 (DCE) #	OTHER	TOT OUT
01	VBLKG2	101	100	110		0
02	S-99	101	96	113		0
03	S-100	108	96	112		0
04	S-101	113	94	103		0
05	S-100MS	109	101	110		0
06	S-100MSD	114	99	112		0
07	MSBS-100	100	105	110		0
08	QCCHKSTD	103	108	112		0
09	S-102	111	100	117		0
10						
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	QC LIMITS
SMC1 (TOL) = Toluene-d8	(84-138)
SMC2 (BFB) = Bromofluorobenzene	(59-113)
SMC3 (DCE) = 1,2-Dichloroethane-d4	(70-121)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

3B

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: IEA/CT Contract: 0037

Lab Code: IEACT Case No.: 0060 SAS No.: SDG No.: Z0060

Matrix Spike - EPA Sample No.: S-100 Level(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
1,1-Dichloroethene	56	0	96	171	59-172
Trichloroethene	56	0	56	100	62-137
Benzene	56	0	55	98	66-142
Toluene	56	2	49	84	59-139
Chlorobenzene	56	0	51	91	60-133

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	56	79	158	8	22	59-172
Trichloroethene	56	50	100	0	24	62-137
Benzene	56	54	108	10	21	66-142
Toluene	56	49	94	11	21	59-139
Chlorobenzene	56	49	98	7	21	60-133

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

LMD 01/31/93

RPD: 0 out of 5 outside limits
Spike Recovery: 0 out of 10 outside limits

COMMENTS: _____

3B

SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

0038

Name: IEA/CT Contract: _____

Lab Code: IEACT Case No.: 20260 SAS No.: _____ SDG No.: 20260

Matrix Spike - EPA Sample No.: MSBS-100 Level:(low/med) Low

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS B CONCENTRATION (ug/Kg)	MS B % REC #	QC. LIMITS REC.
1,1-Dichloroethene	50	0	80	160 *	59-172
Trichloroethene		0	54	108	62-137
Benzene		3	53	104	66-142
Toluene		3	43	86	59-139
Chlorobenzene		0	47	94	60-133

75-125

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene					22	59-172
Trichloroethene					24	62-137
Benzene					21	66-142
Toluene					21	59-139
Chlorobenzene					21	60-133

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

PAS 01/29/93

RPD: _____ out of _____ outside limits

Spike Recovery: 1 out of 5 outside limits

COMMENTS: _____

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKG2 0039

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060 SAS No.: SDG No.: Z0060

Lab File ID: G3850.D Lab Sample ID: VBLKG2

Date Analyzed: 01/26/93 Time Analyzed: 1027

GC Column:007-624 ID: 0.53 (mm) Heated Purge: (Y/N) Y

Instrument ID: HP5995G

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	S-99	0060001	G3851.D	1123
02	S-100	0060002	G3852.D	1157
03	S-101	0060003	G3853.D	1232
04	S-100MS	0060002MS	G3855.D	1341
05	S-100MSD	0060002MSD	G3856.D	1415
06	MSBS-100	0060002MSB	G3857.D	1450
07	QCCHKSTD	0060002STD	G3858.D	1524
08	S-102	0060004	G3859.D	1559
09	FIELDBLANK	0060006	G3864.D	2006
10	TRIPBLANK	0060007	G3865.D	2041
11				
12				
13				
14				
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COMMENTS:

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKG2

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060 SAS No.: SDG No.: Z0060

Matrix: (soil/water) SOIL Lab Sample ID: VBLKG2 0133

Sample wt/vol: 5.0 (g/mL) G Lab File ID: G3850.D

Level: (low/med) LOW Date Received: / /

% Moisture: not dec. 0 Data Analyzed: 01/26/93

GC Column:007-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(mL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	8	J
67-64-1	Acetone	10	
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	~~10~~ 2	~~U~~ J
71-55-6	1,1,1-Trichloroethane	~~10~~ 0.6	~~U~~ J
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	2	J
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

LMD 01/31/93

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLKG2

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060 SAS No.: SDG No.: Z0060**0134**

Matrix: (soil/water) SOIL Lab Sample ID: VBLKG2

Sample wt/vol: 5.0 (g/mL) G Lab File ID: G3850.D

Level: (low/med) LOW Date Received: / /

% Moisture: not dec. 0 Data Analyzed: 01/26/93

GC Column:007-624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
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8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

0 0043

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060 SAS No.: SDG No.: Z0060

Lab File ID (Standard): G3849.D Date Analyzed: 01/26/93

Instrument ID: HP5995G Time Analyzed: 0933

GC Column:007-624 ID: 0.53 (mm) Heated Purge: (Y/N) Y

		IS1(BCM) AREA #	RT #	IS2(DFB) AREA #	RT #	IS3(CBZ) AREA #	RT #
	12 HOUR STD	25974	10.84	181237	13.30	143140	20.41
	UPPER LIMIT	51948	11.34	362474	13.80	286280	20.91
	LOWER LIMIT	12987	10.34	90618	12.80	71570	19.91
	EPA SAMPLE No.						
01	VBLKG2	24084	10.84	193377	13.27	151932	20.45
02	S-99	24415	10.81	193980	13.22	142336	20.41
03	S-100	18409	10.82	132558	13.25	94561	20.44
04	S-101	19667	10.82	124451	13.23	77483	20.42
05	S-100MS	20193	10.84	145599	13.27	100777	20.37
06	S-100MSD	19366	10.85	143999	13.31	96727	20.53
07	MSBS-100	23182	10.92	182308	13.35	142171	20.51
08	QCCHKSTD	23017	10.76	178605	13.25	140054	20.48
09	S-102	18671	10.79	147310	13.23	105239	20.53
10	FIELDBLANK	23837	10.85	188674	13.29	135456	20.52
11	TRIPBLANK	23356	10.78	177456	13.27	134384	20.44
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S-99 0179

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: Z0060 SAS No.: SDG No.: Z0060

Matrix: (soil/water) SOIL Lab Sample ID: 0060001

Sample wt/vol: 30.0 (g/mL) G Lab File ID: C5931.D

Level: (low/med) LOW Date Received: 01/19/93

% Moisture: 12 decanted: (Y/N) N Date Extracted: 01/20/93

Concentrated Extract Volume: 500(UL) Date Analyzed: 02/02/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	380	U
111-44-4	bis(2-Chloroethyl)ether	380	U
95-57-8	2-Chlorophenol	380	U
541-73-1	1,3-Dichlorobenzene	380	U
106-46-7	1,4-Dichlorobenzene	380	U
95-50-1	1,2-Dichlorobenzene	380	U
95-48-7	2-Methylphenol	380	U
108-60-1	2,2'-oxybis(1-Chloropropane)	380	U
106-44-5	4-Methylphenol	380	U
621-64-7	N-Nitroso-di-n-propylamine	380	U
67-72-1	Hexachloroethane	380	U
98-95-3	Nitrobenzene	380	U
78-59-1	Isophorone	380	U
88-75-5	2-Nitrophenol	380	U
105-67-9	2,4-Dimethylphenol	380	U
111-91-1	bis(2-Chloroethoxy)methane	380	U
120-83-2	2,4-Dichlorophenol	380	U
120-82-1	1,2,4-Trichlorobenzene	380	U
91-20-3	Naphthalene	9	J
106-47-8	4-Chloroaniline	380	U
87-68-3	Hexachlorobutadiene	380	U
59-50-7	4-Chloro-3-methylphenol	380	U
91-57-6	2-Methylnaphthalene	11	J
77-47-4	Hexachlorocyclopentadiene	380	U
88-06-2	2,4,6-Trichlorophenol	380	U
95-95-4	2,4,5-Trichlorophenol	910	U
91-58-7	2-Chloronaphthalene	380	U
88-74-4	2-Nitroaniline	910	U
131-11-3	Dimethylphthalate	380	U
208-96-8	Acenaphthylene	16	J
606-20-2	2,6-Dinitrotoluene	380	U
99-09-2	3-Nitroaniline	910	U
83-32-9	Acenaphthene	380	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S-99 0180

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: Z0060 SAS No.: SDG No.: Z0060

Matrix: (soil/water) SOIL Lab Sample ID: 0060001

Sample wt/vol: 30.0 (g/mL) G Lab File ID: C5931.D

Level: (low/med) LOW Date Received: 01/19/93

% Moisture: 12 decanted: (Y/N) N Date Extracted: 01/20/93

Concentrated Extract Volume: 500(UL) Date Analyzed: 02/02/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	910	U
100-02-7	4-Nitrophenol	910	U
132-64-9	Dibenzofuran	8	J
121-14-2	2,4-Dinitrotoluene	380	U
84-66-2	Diethylphthalate	24	JB
7005-72-3	4-Chlorophenyl-phenylether	380	U
86-73-7	Fluorene	380	U
100-01-6	4-Nitroaniline	910	U
534-52-1	4,6-Dinitro-2-methylphenol	910	U
86-30-6	N-Nitrosodiphenylamine (1)	380	U
101-55-3	4-Bromophenyl-phenylether	380	U
118-74-1	Hexachlorobenzene	380	U
87-86-5	Pentachlorophenol	910	U
85-01-8	Phenanthrene	45	J
120-12-7	Anthracene	17	J
86-74-8	Carbazole	26	J
84-74-2	Di-n-butylphthalate	36	JB
206-44-0	Fluoranthene	100	J
129-00-0	Pyrene	77	J
85-68-7	Butylbenzylphthalate	380	U
91-94-1	3,3'-Dichlorobenzidine	380	U
56-55-3	Benzo(a)anthracene	65	J
218-01-9	Chrysene	110	J
117-81-7	bis(2-Ethylhexyl)phthalate	100	JB
117-84-0	Di-n-octylphthalate	380	U
205-99-2	Benzo(b)fluoranthene	100	J
207-08-9	Benzo(k)fluoranthene	110	J
50-32-8	Benzo(a)pyrene	88	J
193-39-5	Indeno(1,2,3-cd)pyrene	110	J
53-70-3	Dibenz(a,h)anthracene	13	J
191-24-2	Benzo(g,h,i)perylene	80	J

1F

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

S-99 0 0181

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: Z0060 SAS No.: SDG No.: Z0060

amc2/12/93

Matrix: (soil/water) SOIL Lab Sample ID: 0060001

Sample wt/vol: 30.0 (g/mL) G Lab File ID: C5931.D

Level: (low/med) LOW Date Received: 01/19/93

% Moisture: 12 decanted: (Y/N) N Date Extracted: 01/20/93

Concentrated Extract Volume: 500(uL) Date Analyzed: 02/02/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.0

Number TICs found: 21

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

amc2/11/93

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		ALDOL CONDENSATION PRODUCT	8.50	13000	JAB
2.		UNKNOWN	12.91	2600	J
3.		↓	7.91	1100	B
4.			10.81	720	B
5.			7.77	720	B
6.		UNKNOWN C8H8	9.58	680	
7.		UNKNOWN ACID	14.92	540	
8.		UNKNOWN	20.76	480	
9.		↓	10.43	470	
10.			10.12	410	
11.		UNKNOWN C3 ALKYL BENZENE	10.35	280	
12.		UNKNOWN ALKANE	8.19	230	
13.		UNKNOWN	20.67	220	B
14.		↓	23.07	170	
15.		UNKNOWN ACID	25.40	140	
16.		UNKNOWN	13.86	140	
17.		↓	12.74	130	
18.			11.21	120	
19.			7.27	120	
20.			11.13	120	
21.		UNKNOWN ALKANE	24.76	100	↓
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET 0232

EPA SAMPLE NO.

S-100

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060 SAS No.: SDG No.: Z0060

Matrix: (soil/water) SOIL Lab Sample ID: 0060002

Sample wt/vol: 30.0 (g/mL) G Lab File ID: C5920.D

Level: (low/med) LOW Date Received: 01/19/93

% Moisture: 12 decanted: (Y/N) N Date Extracted: 01/20/93

Concentrated Extract Volume: 500(UL) Date Analyzed: 02/01/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	380	U
111-44-4	bis(2-Chloroethyl)ether	380	U
95-57-8	2-Chlorophenol	380	U
541-73-1	1,3-Dichlorobenzene	380	U
106-46-7	1,4-Dichlorobenzene	380	U
95-50-1	1,2-Dichlorobenzene	380	U
95-48-7	2-Methylphenol	380	U
108-60-1	2,2'-oxybis(1-Chloropropane)	380	U
106-44-5	4-Methylphenol	380	U
621-64-7	N-Nitroso-di-n-propylamine	380	U
67-72-1	Hexachloroethane	380	U
98-95-3	Nitrobenzene	380	U
78-59-1	Isophorone	380	U
88-75-5	2-Nitrophenol	380	U
105-67-9	2,4-Dimethylphenol	380	U
111-91-1	bis(2-Chloroethoxy)methane	380	U
120-83-2	2,4-Dichlorophenol	380	U
120-82-1	1,2,4-Trichlorobenzene	380	U
91-20-3	Naphthalene	85	J
106-47-8	4-Chloroaniline	380	U
87-68-3	Hexachlorobutadiene	380	U
59-50-7	4-Chloro-3-methylphenol	380	U
91-57-6	2-Methylnaphthalene	81	J
77-47-4	Hexachlorocyclopentadiene	380	U
88-06-2	2,4,6-Trichlorophenol	380	U
95-95-4	2,4,5-Trichlorophenol	910	U
91-58-7	2-Chloronaphthalene	380	U
88-74-4	2-Nitroaniline	910	U
131-11-3	Dimethylphthalate	380	U
208-96-8	Acenaphthylene	380	
606-20-2	2,6-Dinitrotoluene	380	U
99-09-2	3-Nitroaniline	910	U
83-32-9	Acenaphthene	74	J

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET 0233

EPA SAMPLE NO.

S-100

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060 SAS No.: SDG No.: Z0060

Matrix: (soil/water) SOIL Lab Sample ID: 0060002

Sample wt/vol: 30.0 (g/mL) G Lab File ID: C5920.D

Level: (low/med) LOW Date Received: 01/19/93

% Moisture: 12 decanted: (Y/N) N Date Extracted: 01/20/93

Concentrated Extract Volume: 500(UL) Date Analyzed: 02/01/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	910	U
100-02-7	4-Nitrophenol	910	U
132-64-9	Dibenzofuran	70	J
121-14-2	2,4-Dinitrotoluene	380	U
84-66-2	Diethylphthalate	380	U
7005-72-3	4-Chlorophenyl-phenylether	380	U
86-73-7	Fluorene	110	J
100-01-6	4-Nitroaniline	910	U
534-52-1	4,6-Dinitro-2-methylphenol	910	U
86-30-6	N-Nitrosodiphenylamine (1)	380	U
101-55-3	4-Bromophenyl-phenylether	380	U
118-74-1	Hexachlorobenzene	380	U
87-86-5	Pentachlorophenol	910	U
85-01-8	Phenanthrene	1000	
120-12-7	Anthracene	460	
86-74-8	Carbazole	480	
84-74-2	Di-n-butylphthalate	160	JB
206-44-0	Fluoranthene	1700	
129-00-0	Pyrene	380	U
85-68-7	Butylbenzylphthalate	380 ~~210~~	~~JB~~ U
91-94-1	3,3'-Dichlorobenzidine	380	U
56-55-3	Benzo(a)anthracene	1100	
218-01-9	Chrysene	380	U
117-81-7	bis(2-Ethylhexyl)phthalate	1600	B
117-84-0	Di-n-octylphthalate	380	U
205-99-2	Benzo(b)fluoranthene	1000	
207-08-9	Benzo(k)fluoranthene	940	
50-32-8	Benzo(a)pyrene	1200	
193-39-5	Indeno(1,2,3-cd)pyrene	280	J
53-70-3	Dibenz(a,h)anthracene	51	J
191-24-2	Benzo(g,h,i)perylene	150	J

qmc 2/11/93

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

0234

S-100

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: Z0060 SAS No.: SDG No.: Z0060

amc 2/12/93

Matrix: (soil/water) SOIL Lab Sample ID: 0060002

Sample wt/vol: 30.0 (g/mL) G Lab File ID: C5920.D

Level: (low/med) LOW Date Received: 01/19/93

% Moisture: 12 decanted: (Y/N) N Date Extracted: 01/20/93

Concentrated Extract Volume: 500(uL) Date Analyzed: 02/01/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.4

Number TICs found: 021

amc 2/11/93

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		ALDOL CONDENSATION PRODUCT	8.48	14000	JAB
2.		UNKNOWN	12.90	3100	J
3.			10.11	21000	
4.			7.76	1400	B
5.			10.60	850	
6.			10.11	500	B
7.			11.20	260	
8.		UNKNOWN ALKANE	8.18	240	
9.		UNKNOWN	7.25	170	
10.			12.73	110	
11.			9.07	110	VOA amc 2/11/93
12.		UNKNOWN	13.84	110	J
13.			6.42	100	VOA
14.			20.15	100	Target
15.		UNKNOWN	20.68	140	J
16.			17.55	99	
17.		UNKNOWN ALKANE	19.88	99	
18.			12.58	96	
19.			22.52	91	
20.			13.09	89	
21.			21.20	86	
22.		UNKNOWN	8.60	85	
23.		UNKNOWN ALKANE	12.32	84	
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S-101

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060 SAS No.: SDG No.: Z0060

0283

Matrix: (soil/water) SOIL Lab Sample ID: 0060003

Sample wt/vol: 30.0 (g/mL) G Lab File ID: C5921.D

Level: (low/med) LOW Date Received: 01/19/93

% Moisture: 14 decanted: (Y/N) N Date Extracted: 01/20/93

Concentrated Extract Volume: 500(UL) Date Analyzed: 02/01/93

Injection Volume: 2.0(uL) Dilution Factor: 8.0

GPC Cleanup: (Y/N) Y pH: 7.3

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	3100	U
111-44-4	bis(2-Chloroethyl)ether	3100	U
95-57-8	2-Chlorophenol	3100	U
541-73-1	1,3-Dichlorobenzene	3100	U
106-46-7	1,4-Dichlorobenzene	3100	U
95-50-1	1,2-Dichlorobenzene	3100	U
95-48-7	2-Methylphenol	3100	U
108-60-1	2,2'-oxybis(1-Chloropropane)	3100	U
106-44-5	4-Methylphenol	3100	U
621-64-7	N-Nitroso-di-n-propylamine	3100	U
67-72-1	Hexachloroethane	3100	U
98-95-3	Nitrobenzene	3100	U
78-59-1	Isophorone	3100	U
88-75-5	2-Nitrophenol	3100	U
105-67-9	2,4-Dimethylphenol	41	J
111-91-1	bis(2-Chloroethoxy)methane	3100	U
120-83-2	2,4-Dichlorophenol	3100	U
120-82-1	1,2,4-Trichlorobenzene	3100	U
91-20-3	Naphthalene	700	J
106-47-8	4-Chloroaniline	3100	U
87-68-3	Hexachlorobutadiene	3100	U
59-50-7	4-Chloro-3-methylphenol	3100	U
91-57-6	2-Methylnaphthalene	430	J
77-47-4	Hexachlorocyclopentadiene	3100	U
88-06-2	2,4,6-Trichlorophenol	3100	U
95-95-4	2,4,5-Trichlorophenol	7400	U
91-58-7	2-Chloronaphthalene	3100	U
88-74-4	2-Nitroaniline	7400	U
131-11-3	Dimethylphthalate	3100	U
208-96-8	Acenaphthylene	2500	J
606-20-2	2,6-Dinitrotoluene	3100	U
99-09-2	3-Nitroaniline	7400	U
83-32-9	Acenaphthene	240	J

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S-101

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060 SAS No.: SDG No.: Z0060

0284

Matrix: (soil/water) SOIL Lab Sample ID: 0060003

Sample wt/vol: 30.0 (g/mL) G Lab File ID: C5921.D

Level: (low/med) LOW Date Received: 01/19/93

% Moisture: 14 decanted: (Y/N) N Date Extracted: 01/20/93

Concentrated Extract Volume: 500(UL) Date Analyzed: 02/01/93

Injection Volume: 2.0(uL) Dilution Factor: 8.0

GPC Cleanup: (Y/N) Y pH: 7.3

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	7400	U
100-02-7	4-Nitrophenol	7400	U
132-64-9	Dibenzofuran	500	J
121-14-2	2,4-Dinitrotoluene	3100	U
84-66-2	Diethylphthalate	3100	U
7005-72-3	4-Chlorophenyl-phenylether	3100	U
86-73-7	Fluorene	460	J
100-01-6	4-Nitroaniline	7400	U
534-52-1	4,6-Dinitro-2-methylphenol	7400	U
86-30-6	N-Nitrosodiphenylamine (1)	3100	U
101-55-3	4-Bromophenyl-phenylether	3100	U
118-74-1	Hexachlorobenzene	3100	U
87-86-5	Pentachlorophenol	7400	U
85-01-8	Phenanthrene	3100	
120-12-7	Anthracene	3100	
86-74-8	Carbazole	3600	
84-74-2	Di-n-butylphthalate	3100	U
206-44-0	Fluoranthene	7000	
129-00-0	Pyrene	6900	
85-68-7	Butylbenzylphthalate	3100	U
91-94-1	3,3'-Dichlorobenzidine	3100	U
56-55-3	Benzo(a)anthracene	3900	
218-01-9	Chrysene	4900	
117-81-7	bis(2-Ethylhexyl)phthalate	1900	JB
117-84-0	Di-n-octylphthalate	3100	U
205-99-2	Benzo(b)fluoranthene	3200	
207-08-9	Benzo(k)fluoranthene	5100	
50-32-8	Benzo(a)pyrene	5700	
193-39-5	Indeno(1,2,3-cd)pyrene	920	J
53-70-3	Dibenz(a,h)anthracene	3100	U
191-24-2	Benzo(g,h,i)perylene	700	J

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

S-101

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: Z0060 SAS No.: SDG No.: Z0060 0285

Matrix: (soil/water) SOIL conc 2/12/93 Lab Sample ID: 0060003

Sample wt/vol: 30.0 (g/mL) G Lab File ID: C5921.D

Level: (low/med) LOW Date Received: 01/19/93

% Moisture: 14 decanted: (Y/N) N Date Extracted: 01/20/93

Concentrated Extract Volume: 500(uL) Date Analyzed: 02/01/93

Injection Volume: 2.0(uL) Dilution Factor: 155.0

GPC Cleanup: (Y/N) Y pH: 7.3

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Number TICs found: 6 Conc 2/12/93

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		ALDOL CONDENSATION PRODUCT	8.37	59000	JAB
2.		UNKNOWN	7.607	3700	JB
3.			10.77	3100	J
4.			12.78	1900	
5.			10.35	1100	
6.		UNKNOWN ALKANE	22.46	760	
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9.					
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S-101RE

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: Z0060 SAS No.: SDG No.: Z0060 0321

GMC 2/12/93

Matrix: (soil/water) SOIL Lab Sample ID: 0060003RE

Sample wt/vol: 30.0 (g/mL) G Lab File ID: C5934.D

Level: (low/med) LOW Date Received: 01/19/93

% Moisture: 14 decanted: (Y/N) N Date Extracted: 01/20/93

Concentrated Extract Volume: 500(UL) Date Analyzed: 02/02/93

Injection Volume: 2.0(uL) Dilution Factor: 8.0

GPC Cleanup: (Y/N) Y pH: 7.3

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	3100	U
111-44-4	bis(2-Chloroethyl)ether	3100	U
95-57-8	2-Chlorophenol	3100	U
541-73-1	1,3-Dichlorobenzene	3100	U
106-46-7	1,4-Dichlorobenzene	3100	U
95-50-1	1,2-Dichlorobenzene	3100	U
95-48-7	2-Methylphenol	3100	U
108-60-1	2,2'-oxybis(1-Chloropropane)	3100	U
106-44-5	4-Methylphenol	3100	U
621-64-7	N-Nitroso-di-n-propylamine	3100	U
67-72-1	Hexachloroethane	3100	U
98-95-3	Nitrobenzene	3100	U
78-59-1	Isophorone	3100	U
88-75-5	2-Nitrophenol	3100	U
105-67-9	2,4-Dimethylphenol	3100	U
111-91-1	bis(2-Chloroethoxy)methane	3100	U
120-83-2	2,4-Dichlorophenol	3100	U
120-82-1	1,2,4-Trichlorobenzene	660	J
91-20-3	Naphthalene	3100	U
106-47-8	4-Chloroaniline	3100	U
87-68-3	Hexachlorobutadiene	3100	U
59-50-7	4-Chloro-3-methylphenol	440	J
91-57-6	2-Methylnaphthalene	3100	U
77-47-4	Hexachlorocyclopentadiene	3100	U
88-06-2	2,4,6-Trichlorophenol	7400	U
95-95-4	2,4,5-Trichlorophenol	3100	U
91-58-7	2-Chloronaphthalene	7400	U
88-74-4	2-Nitroaniline	3100	U
131-11-3	Dimethylphthalate	3500	U
208-96-8	Acenaphthylene	3100	U
606-20-2	2,6-Dinitrotoluene	7400	U
99-09-2	3-Nitroaniline	290	J
83-32-9	Acenaphthene		

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S-101RE 0322

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: Z0060 SAS No.: SDG No.: Z0060

amc 2/2/93

Matrix: (soil/water) SOIL Lab Sample ID: 0060003RE

Sample wt/vol: 30.0 (g/mL) G Lab File ID: C5934.D

Level: (low/med) LOW Date Received: 01/19/93

% Moisture: 14 decanted: (Y/N) N Date Extracted: 01/20/93

Concentrated Extract Volume: 500(UL) Date Analyzed: 02/02/93

Injection Volume: 2.0(uL) Dilution Factor: 8.0

GPC Cleanup: (Y/N) Y pH: 7.3

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	7400	U
100-02-7	4-Nitrophenol	7400	U
132-64-9	Dibenzofuran	600	J
121-14-2	2,4-Dinitrotoluene	3100	U
84-66-2	Diethylphthalate	3100	U
7005-72-3	4-Chlorophenyl-phenylether	3100	U
86-73-7	Fluorene	600	J
100-01-6	4-Nitroaniline	7400	U
534-52-1	4,6-Dinitro-2-methylphenol	7400	U
86-30-6	N-Nitrosodiphenylamine (1)	3100	U
101-55-3	4-Bromophenyl-phenylether	3100	U
118-74-1	Hexachlorobenzene	3100	U
87-86-5	Pentachlorophenol	7400	U
85-01-8	Phenanthrene	3600	
120-12-7	Anthracene	3200	
86-74-8	Carbazole	2300	J
84-74-2	Di-n-butylphthalate	160	JB
206-44-0	Fluoranthene	6800	
129-00-0	Pyrene	7800	
85-68-7	Butylbenzylphthalate	3100	U
91-94-1	3,3'-Dichlorobenzidine	3100	U
56-55-3	Benzo(a)anthracene	4600	
218-01-9	Chrysene	6500	
117-81-7	bis(2-Ethylhexyl)phthalate	2400	JB
117-84-0	Di-n-octylphthalate	3100	U
205-99-2	Benzo(b)fluoranthene	3500	
207-08-9	Benzo(k)fluoranthene	3800	
50-32-8	Benzo(a)pyrene	4000	
193-39-5	Indeno(1,2,3-cd)pyrene	1200	J
53-70-3	Dibenz(a,h)anthracene	3100	U
191-24-2	Benzo(g,h,i)perylene	550	J

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

S-101RE 0323

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: Z0060 SAS No.: SDG No.: Z0060

cmc 2/12/93

Matrix: (soil/water) SOIL Lab Sample ID: 0060003RE

Sample wt/vol: 30.0 (g/mL) G Lab File ID: C5934.D

Level: (low/med) LOW Date Received: 01/19/93

% Moisture: 14 decanted: (Y/N) N Date Extracted: 01/20/93

Concentrated Extract Volume: 500(uL) Date Analyzed: 02/02/93

Injection Volume: 2.0(uL) Dilution Factor: 8.0

GPC Cleanup: (Y/N) Y pH: 7.3

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Number TICs found: 6

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		ALDOL CONDENSATION PRODUCT	8.43	61000	JAB
2.		UNKNOWN	7.75	3200	JB
3.		↓	10.80	3000	↓
4.			12.86	1400	
5.			10.44	1300	
6.		UNKNOWN ALKANE	22.57	690	
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

0359

EPA SAMPLE NO.

S-102

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: Z0060 SAS No.: SDG No.: Z0060

GMC 2/12/93

Matrix: (soil/water) SOIL Lab Sample ID: 0060004

Sample wt/vol: 30.0 (g/mL) G Lab File ID: C5908.D

Level: (low/med) LOW Date Received: 01/19/93

% Moisture: 12 decanted: (Y/N) N Date Extracted: 01/20/93

Concentrated Extract Volume: 500(UL) Date Analyzed: 01/29/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG		Q
108-95-2	Phenol		380	U
111-44-4	bis(2-Chloroethyl)ether		380	U
95-57-8	2-Chlorophenol		380	U
541-73-1	1,3-Dichlorobenzene		380	U
106-46-7	1,4-Dichlorobenzene		380	U
95-50-1	1,2-Dichlorobenzene		380	U
95-48-7	2-Methylphenol		380	U
108-60-1	2,2'-oxybis(1-Chloropropane)		380	U
106-44-5	4-Methylphenol		380	U
621-64-7	N-Nitroso-di-n-propylamine		380	U
67-72-1	Hexachloroethane		380	U
98-95-3	Nitrobenzene		380	U
78-59-1	Isophorone		380	U
88-75-5	2-Nitrophenol		380	U
105-67-9	2,4-Dimethylphenol	380	~~12~~	~~J~~ U
111-91-1	bis(2-Chloroethoxy)methane		380	U
120-83-2	2,4-Dichlorophenol		380	U
120-82-1	1,2,4-Trichlorobenzene		380	U
91-20-3	Naphthalene		260	J
106-47-8	4-Chloroaniline		380	U
87-68-3	Hexachlorobutadiene		380	U
59-50-7	4-Chloro-3-methylphenol		380	U
91-57-6	2-Methylnaphthalene		190	J
77-47-4	Hexachlorocyclopentadiene		380	U
88-06-2	2,4,6-Trichlorophenol		380	U
95-95-4	2,4,5-Trichlorophenol		910	U
91-58-7	2-Chloronaphthalene		380	U
88-74-4	2-Nitroaniline		910	U
131-11-3	Dimethylphthalate	380	~~8~~	~~J~~ U
208-96-8	Acenaphthylene		600	
606-20-2	2,6-Dinitrotoluene		380	U
99-09-2	3-Nitroaniline		910	U
83-32-9	Acenaphthene		45	J

GMC 2/12/93

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S-102

Lab Name: IEA/CT Contract: 0360

Lab Code: IEACT Case No.: Z0060 SAS No.: SDG No.: Z0060

Matrix: (soil/water) SOIL GMC 2/12/93 Lab Sample ID: 0060004

Sample wt/vol: 30.0 (g/mL) G Lab File ID: C5908.D

Level: (low/med) LOW Date Received: 01/19/93

% Moisture: 12 decanted: (Y/N) N Date Extracted: 01/20/93

Concentrated Extract Volume: 500(UL) Date Analyzed: 01/29/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	910	U
100-02-7	4-Nitrophenol	910	U
132-64-9	Dibenzofuran	210	J
121-14-2	2,4-Dinitrotoluene	380	U
84-66-2	Diethylphthalate	41	JB
7005-72-3	4-Chlorophenyl-phenylether	380	U
86-73-7	Fluorene	380	U
100-01-6	4-Nitroaniline	910	U
534-52-1	4,6-Dinitro-2-methylphenol	910	U
86-30-6	N-Nitrosodiphenylamine (1)	380	U
101-55-3	4-Bromophenyl-phenylether	380	U
118-74-1	Hexachlorobenzene	380	U
87-86-5	Pentachlorophenol	910	U
85-01-8	Phenanthrene	680	
120-12-7	Anthracene	370	J
86-74-8	Carbazole	200	J
84-74-2	Di-n-butylphthalate	49	JB
206-44-0	Fluoranthene	260	J
129-00-0	Pyrene	380	U
85-68-7	Butylbenzylphthalate	380	U
91-94-1	3,3'-Dichlorobenzidine	380	U
56-55-3	Benzo(a)anthracene	690	
218-01-9	Chrysene	1500	
117-81-7	bis(2-Ethylhexyl)phthalate	380	U
117-84-0	Di-n-octylphthalate	380	U
205-99-2	Benzo(b)fluoranthene	1200	
207-08-9	Benzo(k)fluoranthene	860	
50-32-8	Benzo(a)pyrene	2100	
193-39-5	Indeno(1,2,3-cd)pyrene	770	
53-70-3	Dibenz(a,h)anthracene	250	J
191-24-2	Benzo(g,h,i)perylene	670	

PL 2/16/93

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EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

S-102

Lab Name: IEA/CT Contract: 0361

Lab Code: IEACT Case No.: Z0060 SAS No.: SDG No.: Z0060

CMC 2/12/93

Matrix: (soil/water) SOIL Lab Sample ID: 0060004

Sample wt/vol: 30.0 (g/mL) G Lab File ID: C5908.D

Level: (low/med) LOW Date Received: 01/19/93

% Moisture: 12 decanted: (Y/N) N Date Extracted: 01/20/93

Concentrated Extract Volume: 500(uL) Date Analyzed: 01/29/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Number TICs found: 021
CMC 2/12/93

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		ALDOL CONDENSATION PRODUCT	8.99	12000	JB
2.		UNKNOWN	7.88	1600	JB
3.			8.02	1100	
4.			6.91	1000	
5.			13.00	880	
6.			10.54	660	
7.			10.24	500	
8.			12.91	330	
9.		UNKNOWN HYDROCARBON	7.37	320	
10.		UNKNOWN MW 142	17.40	220	
11.			17.68	220	
12.		UNKNOWN	11.12	190	
13.			13.96	190	
14.			12.12	150	
15.		UNKNOWN ALKANE	20.01	150	
16.			18.62	140	
17.			8.29	140	
18.		UNKNOWN DIMETHYL NAPHTHALENE isO.	19.30	130	
19.		UNKNOWN	16.52	110	
20.			13.38	110	
21.			10.47	110	
22.			~~20.86~~		
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S-102RE

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060 SAS No.: SDG No.: Z0060

0411

Matrix: (soil/water) SOIL Lab Sample ID: 0060004RE

Sample wt/vol: 30.0 (g/mL) G Lab File ID: C5922.D

Level: (low/med) LOW Date Received: 01/19/93

% Moisture: 12 decanted: (Y/N) N Date Extracted: 01/20/93

Concentrated Extract Volume: 500(UL) Date Analyzed: 02/01/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	380	U
111-44-4	bis(2-Chloroethyl)ether	380	U
95-57-8	2-Chlorophenol	380	U
541-73-1	1,3-Dichlorobenzene	380	U
106-46-7	1,4-Dichlorobenzene	380	U
95-50-1	1,2-Dichlorobenzene	380	U
95-48-7	2-Methylphenol	380	U
108-60-1	2,2'-oxybis(1-Chloropropane)	380	U
106-44-5	4-Methylphenol	28	J
621-64-7	N-Nitroso-di-n-propylamine	380	U
67-72-1	Hexachloroethane	380	U
98-95-3	Nitrobenzene	380	U
78-59-1	Isophorone	380	U
88-75-5	2-Nitrophenol	380	U
105-67-9	2,4-Dimethylphenol	15	J
111-91-1	bis(2-Chloroethoxy)methane	380	U
120-83-2	2,4-Dichlorophenol	380	U
120-82-1	1,2,4-Trichlorobenzene	380	U
91-20-3	Naphthalene	280	J
106-47-8	4-Chloroaniline	380	U
87-68-3	Hexachlorobutadiene	380	U
59-50-7	4-Chloro-3-methylphenol	380	U
91-57-6	2-Methylnaphthalene	230	J
77-47-4	Hexachlorocyclopentadiene	380	U
88-06-2	2,4,6-Trichlorophenol	380	U
95-95-4	2,4,5-Trichlorophenol	910	U
91-58-7	2-Chloronaphthalene	380	U
88-74-4	2-Nitroaniline	910	U
131-11-3	Dimethylphthalate	380	U
208-96-8	Acenaphthylene	710	
606-20-2	2,6-Dinitrotoluene	380	U
99-09-2	3-Nitroaniline	910	U
83-32-9	Acenaphthene	380	U

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S-102RE

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060 SAS No.: SDG No.: Z0060 0412

Matrix: (soil/water) SOIL Lab Sample ID: 0060004RE

Sample wt/vol: 30.0 (g/mL) G Lab File ID: C5922.D

Level: (low/med) LOW Date Received: 01/19/93

% Moisture: 12 decanted: (Y/N) N Date Extracted: 01/20/93

Concentrated Extract Volume: 500(UL) Date Analyzed: 02/01/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	910	U
100-02-7	4-Nitrophenol	910	U
132-64-9	Dibenzofuran	180	J
121-14-2	2,4-Dinitrotoluene	380	U
84-66-2	Diethylphthalate	40	JB
7005-72-3	4-Chlorophenyl-phenylether	380	U
86-73-7	Fluorene	380	U
100-01-6	4-Nitroaniline	910	U
534-52-1	4,6-Dinitro-2-methylphenol	910	U
86-30-6	N-Nitrosodiphenylamine (1)	380	U
101-55-3	4-Bromophenyl-phenylether	380	U
118-74-1	Hexachlorobenzene	380	U
87-86-5	Pentachlorophenol	910	U
85-01-8	Phenanthrene	630	
120-12-7	Anthracene	340	J
86-74-8	Carbazole	350	J
84-74-2	Di-n-butylphthalate	380	U
206-44-0	Fluoranthene	220	J
129-00-0	Pyrene	710	
85-68-7	Butylbenzylphthalate	380	U
91-94-1	3,3'-Dichlorobenzidine	380	U
56-55-3	Benzo(a)anthracene	730	
218-01-9	Chrysene	1100	
117-81-7	bis(2-Ethylhexyl)phthalate	380	U
117-84-0	Di-n-octylphthalate	380	U
205-99-2	Benzo(b)fluoranthene	760	
207-08-9	Benzo(k)fluoranthene	670	
50-32-8	Benzo(a)pyrene	2100	
193-39-5	Indeno(1,2,3-cd)pyrene	670	
53-70-3	Dibenz(a,h)anthracene	180	J
191-24-2	Benzo(g,h,i)perylene	280	J

2/18/93

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

S-102RE

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: Z0060 SAS No.: SDG No.: Z0060 0413

Matrix: (soil/water) SOIL amc 2/12/93 Lab Sample ID: 0060004RE

Sample wt/vol: 30.0 (g/mL) G Lab File ID: C5922.D

Level: (low/med) LOW Date Received: 01/19/93

% Moisture: 12 decanted: (Y/N) N Date Extracted: 01/20/93

Concentrated Extract Volume: 500(uL) Date Analyzed: 02/01/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 7.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

Number TICs found: 021 amc 2/12/93

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		ALDOL CONDENSATION PRODUCT	8.44	12000	JAB
2.		UNKNOWN	12.87	2100	J
3.			10.76	980	
4.			7.72	980	B
5.			7.86	900	
6.			10.38	640	
7.			10.07	500	
8.		UNKNOWN HYDROCARBON	7.21	400	
9.		UNKNOWN	10.96	290	
10.		UNKNOWN MW=142	17.50	250	
11.		UNKNOWN	10.32	200	
12.			13.78	190	
13.			14.89	170	
14.		UNKNOWN ALKANE	8.13	140	
15.		UNKNOWN	11.96	140	
16.			16.34	130	
17.		UNKNOWN DIMETHYL NAPHTHALENE	19.11	130	
18.		UNKNOWN ALKANE	19.84	130	
19.			18.44	120	
20.		UNKNOWN	12.74	99	
21.		UNKNOWN DIMETHYL NAPHTHALENE	18.88	92	
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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

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Lab Name: IEA/CT Contract: 0464

Lab Code: IEACT Case No.: 0060 SAS No.: SDG No.: Z0060

Matrix: (soil/water) WATER Lab Sample ID: 0060006

Sample wt/vol: 990 (g/mL) ML Lab File ID: C5915.D

Level: (low/med) LOW Date Received: 01/19/93

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 01/21/93

Concentrated Extract Volume: 1000(UL) Date Analyzed: 02/01/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	1	JB
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

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Lab Name: IEA/CT Contract: 0465

Lab Code: IEACT Case No.: 0060 SAS No.: SDG No.: Z0060

Matrix: (soil/water) WATER Lab Sample ID: 0060006

Sample wt/vol: 990 (g/mL) ML Lab File ID: C5915.D

Level: (low/med) LOW Date Received: 01/19/93

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 01/21/93

Concentrated Extract Volume: 1000(UL) Date Analyzed: 02/01/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	0.3	JB
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	0.3	JB
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	1	JB
117-84-0	Di-n-octylphthalate	0.4	J
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

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EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

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Lab Name: IEA/CT Contract: 0466

Lab Code: IEACT Case No.: Z0060 SAS No.: SDG No.: Z0060

Matrix: (soil/water) WATER anc 2/12/93 Lab Sample ID: 0060006

Sample wt/vol: 990 (g/mL) ML Lab File ID: C5915.D

Level: (low/med) LOW Date Received: 01/19/93

% Moisture: ___ decanted: (Y/N)___ Date Extracted: 01/21/93

Concentrated Extract Volume: 1000(uL) Date Analyzed: 02/01/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:_____

Number TICs found: 04 GOC 2/11/93

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	149575	HEXANOIC ACID, 2-ETHYL-	13.98	13	JN
2.		UNKNOWN	8.73	11	JB
3.		ALDOL CONDENSATION PRODUCT	8.31	6	JAB
4.		UNKNOWN	9.41	3	JB
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2D

SOIL SEMIVOLATILE SURROGATE RECOVERY

0159

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060 SAS No.: SDG No.: Z0060

Level:(low/med) LOW

	EPA SAMPLE NO.	S1 (NBZ)#	S2 (FBP)#	S3 (TPH)#	S4 (PHL)#	S5 (2FP)#	S6 (TBP)#	S7 (2CP)#	S8 (DCB)#	TOT OUT
01	SBLK51	71	66	82	76	64	84	72	69	0
02	S-102	64	78	136	73	56	102	60	54	0
03	2-100MSB	61	54	83	63	65	55	60	66	0
04	QCCHECKSTD	54	60	73	52	50	67	47	49	0
05	S-100	59	68	70	66	60	78	51	56	0
06	S-101	61D	83D	94D	75D	72D	87D	84D	80D	0
07	S-102RE	61	72	75	66	58	90	59	59	0
08	s-99	50	62	73	59	54	70	51	54	0
09	S-100MS	62	79	80	70	63	105	66	67	0
10	S-100MSD	56	70	79	68	65	92	64	60	0
11	S-101RE	58D	96D	101D	75D	69D	100D	78D	71D	0
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		QC LIMITS	
S1 (NBZ)	= Nitrobenzene-d5	(23-120)	
S2 (FBP)	= 2-Fluorobiphenyl	(30-115)	
S3 (TPH)	= Terphenyl-d14	(18-137)	
S4 (PHL)	= Phenol-d5	(24-113)	
S5 (2FP)	= 2-Fluorophenol	(25-121)	
S6 (TBP)	= 2,4,6-Tribromophenol	(19-122)	
S7 (2CP)	= 2-Chlorophenol-d4	(20-130)	(advisory)
S8 (DCB)	= 1,2-Dichlorobenzene-d4	(20-130)	(advisory)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogate diluted out

2C
WATER SEMIVOLATILE SURROGATE RECOVERY

0160

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: Z0060 SAS No.: SDG No.: Z0060

	EPA SAMPLE NO.	S1 (NBZ) #	S2 (FBP) #	S3 (TPH) #	S4 (PHL) #	S5 (2FP) #	S6 (TBP) #	S7 (2CP) #	S8 (DCB) #	TOT OUT
01	SBLK53	78	80	98	82	74	92	84	83	0
02	FIELDBLANK	80	73	78	73	65	94	75	72	0
03										
04										
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		QC LIMITS	
S1 (NBZ)	= Nitrobenzene-d5	(35-114)	
S2 (FBP)	= 2-Fluorobiphenyl	(43-116)	
S3 (TPH)	= Terphenyl-d14	(33-141)	
S4 (PHL)	= Phenol-d5	(10-110)	
S5 (2FP)	= 2-Fluorophenol	(21-110)	
S6 (TBP)	= 2,4,6-Tribromophenol	(10-123)	
S7 (2CP)	= 2-Chlorophenol-d4	(33-110)	(advisory)
S8 (DCB)	= 1,2-Dichlorobenzene-d4	(16-110)	(advisory)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

3D

SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

0161

Lab Name: LEA/CT Contract: _____

Lab Code: LEACT Case No.: 0000 SAS No.: _____ SDG No.: 70000

Matrix Spike - EPA Sample No.: S-100 Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
Phenol	2800	0	2000	71	26- 90
2-Chlorophenol	2800		1900	68	25-102
1,4-Dichlorobenzene	1900		1300	68	28-104
N-Nitroso-di-n-prop.(1)	1900		1500	79	41-126
1,2,4-Trichlorobenzene	1900		1400	74	38-107
4-Chloro-3-methylphenol	2800		2400	85	26-103
Acenaphthene	1900	74	1700	~~89~~ 86	31-137
4-Nitrophenol	2800	0	3200	114	11-114
2,4-Dinitrotoluene	1900		1700	89	28- 89
Pentachlorophenol	7800		1600	57	17-109
Pyrene	1900		2000	105	35-142

GMC 2/12/93

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	2800	1900	68	4	35	26- 90
2-Chlorophenol	2800	1900	68	0	50	25-102
1,4-Dichlorobenzene	1900	1200	63	8	27	28-104
N-Nitroso-di-n-prop.(1)	1900	1400	74	7	38	41-126
1,2,4-Trichlorobenzene	1900	1300	68	8	23	38-107
4-Chloro-3-methylphenol	2800	2400	86	1	33	26-103
Acenaphthene	1900	1600	~~84~~ 80	7	19	31-137
4-Nitrophenol	2800	2900	104	9	50	11-114
2,4-Dinitrotoluene	1900	1400	74	18	47	28- 89
Pentachlorophenol	7800	1600	57	0	47	17-109
Pyrene	1900	2000	105	0	36	35-142

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 11 outside limits
Spike Recovery: 0 out of 22 outside limits

COMMENTS: _____

3D MSB

SOIL SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

0162

Lab Name: IEA/CT Contract: _____

Lab Code: IEACT Case No.: 00000 SAS No.: _____ SDG No.: 70000

Matrix Spike - EPA Sample No.: S-100 MSB Level:(low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC. LIMITS REC.
Phenol	2500	Ø	1500	60	26- 90
2-Chlorophenol	2500		1500	60	25-102
1,4-Dichlorobenzene	1700		1100	65	28-104
N-Nitroso-di-n-prop.(1)	1700		1100	65	41-126
1,2,4-Trichlorobenzene	1700		1000	59	38-107
4-Chloro-3-methylphenol	2500		1500	60	26-103
Acenaphthene	1700		916	54	31-137
4-Nitrophenol	2500		1700	68	11-114
2,4-Dinitrotoluene	1700		1100	65	28- 89
Pentachlorophenol	2500		1500	60	17-109
Pyrene	1700		1100	65	35-142

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol					35	26- 90
2-Chlorophenol					50	25-102
1,4-Dichlorobenzene					27	28-104
N-Nitroso-di-n-prop.(1)					38	41-126
1,2,4-Trichlorobenzene					23	38-107
4-Chloro-3-methylphenol					33	26-103
Acenaphthene					19	31-137
4-Nitrophenol					50	11-114
2,4-Dinitrotoluene					47	28- 89
Pentachlorophenol					47	17-109
Pyrene					36	35-142

(1) N-Nitroso-di-n-propylamine

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: ___ out of ___ outside limits
Spike Recovery: 0 out of 11 outside limits

COMMENTS: _____

QC CHECK
FORM 3

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

QCCHECKSTD

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060 SAS No.: SDG No.: Z0060

0163

Matrix: (soil/water) SOIL Lab Sample ID: 0060002STD

Sample wt/vol: 30.0 (g/mL) G Lab File ID: C5914.D

Level: (low/med) LOW Date Received: 01/19/93

% Moisture: 0 decanted: (Y/N) N Date Extracted: 01/20/93

Concentrated Extract Volume: 500(UL) Date Analyzed: 02/01/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	1800	108
111-44-4	bis(2-Chloroethyl)ether	1700	102
95-57-8	2-Chlorophenol	1600	96
541-73-1	1,3-Dichlorobenzene	1600	96
106-46-7	1,4-Dichlorobenzene	1500	90
95-50-1	1,2-Dichlorobenzene	1500	90
95-48-7	2-Methylphenol	1900	114
108-60-1	2,2'-oxybis(1-Chloropropane)	1900	114
106-44-5	4-Methylphenol	1900	114
621-64-7	N-Nitroso-di-n-propylamine	1900	114
67-72-1	Hexachloroethane	1500	90
98-95-3	Nitrobenzene	1800	108
78-59-1	Isophorone	2100	126
88-75-5	2-Nitrophenol	1900	114
105-67-9	2,4-Dimethylphenol	1600	96
111-91-1	bis(2-Chloroethoxy)methane	1900	114
120-83-2	2,4-Dichlorophenol	1900	114
120-82-1	1,2,4-Trichlorobenzene	1600	96
91-20-3	Naphthalene	1700	102
106-47-8	4-Chloroaniline	4700	282
87-68-3	Hexachlorobutadiene	1500	90
59-50-7	4-Chloro-3-methylphenol	2400	144
91-57-6	2-Methylnaphthalene	1600	96
77-47-4	Hexachlorocyclopentadiene	1200	72
88-06-2	2,4,6-Trichlorophenol	2100	126
95-95-4	2,4,5-Trichlorophenol	1900	114
91-58-7	2-Chloronaphthalene	1700	102
88-74-4	2-Nitroaniline	2600	156
131-11-3	Dimethylphthalate	2100	126
208-96-8	Acenaphthylene	1800	108
606-20-2	2,6-Dinitrotoluene	1900	114
99-09-2	3-Nitroaniline	16000	960
83-32-9	Acenaphthene	1700	102

GMC 2/12/93

QC CHECK
FORM 3

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

QCCHECKSTD

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060 SAS No.: SDG No.: Z0060

Matrix: (soil/water) SOIL Lab Sample ID: 0060002STD 0164

Sample wt/vol: 30.0 (g/mL) G Lab File ID: C5914.D

Level: (low/med) LOW Date Received: 01/19/93

% Moisture: 0 decanted: (Y/N) N Date Extracted: 01/20/93

Concentrated Extract Volume: 500(UL) Date Analyzed: 02/01/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	2900	174
100-02-7	4-Nitrophenol	2700	162
132-64-9	Dibenzofuran	1700	107
121-14-2	2,4-Dinitrotoluene	2200	132
84-66-2	Diethylphthalate	1900	114 B
7005-72-3	4-Chlorophenyl-phenylether	1400	84
86-73-7	Fluorene	1700	102
100-01-6	4-Nitroaniline	5400	323
534-52-1	4,6-Dinitro-2-methylphenol	2700	162
86-30-6	N-Nitrosodiphenylamine (1)	2800	168
101-55-3	4-Bromophenyl-phenylether	2000	120
118-74-1	Hexachlorobenzene	2000	120
87-86-5	Pentachlorophenol	2600	156
85-01-8	Phenanthrene	2100	126
120-12-7	Anthracene	2000	120
86-74-8	Carbazole	6700	402
84-74-2	Di-n-butylphthalate	2100	126 B
206-44-0	Fluoranthene	2300	138
129-00-0	Pyrene	2200	132
85-68-7	Butylbenzylphthalate	2100	126 B
91-94-1	3,3'-Dichlorobenzidine	3300	198
56-55-3	Benzo(a)anthracene	2400	144
218-01-9	Chrysene	2000	120
117-81-7	bis(2-Ethylhexyl)phthalate	1700	102 B
117-84-0	Di-n-octylphthalate	2200	132
205-99-2	Benzo(b)fluoranthene	1200	72
207-08-9	Benzo(k)fluoranthene	1300	78
50-32-8	Benzo(a)pyrene	2700	162
193-39-5	Indeno(1,2,3-cd)pyrene	790	47
53-70-3	Dibenz(a,h)anthracene	1300	78
191-24-2	Benzo(g,h,i)perylene	1200	72

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK51

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: Z0060 SAS No.: SDG No.: Z0060

Lab File ID: C5902.D Lab Sample ID: SBLK51

Instrument ID: HP5970C Date Extracted: 01/20/93

Matrix: (soil/water) SOIL Date Analyzed: 01/29/93

Level: (low/med) LOW Time Analyzed: 1206

0165

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	S-102	0060004	C5908.D	01/29/93
02	2-100MSB	0060002MSB	C5913.D	02/01/93
03	QCCHECKSTD	0060002STD	C5914.D	02/01/93
04	S-100	0060002	C5920.D	02/01/93
05	S-101	0060003	C5921.D	02/01/93
06	S-102RE	0060004RE	C5922.D	02/01/93
07	s-99	0060001	C5931.D	02/02/93
08	S-100MS	0060002MS	C5932.D	02/02/93
09	S-100MSD	0060002MSD	C5933.D	02/02/93
10	S-101RE	0060003RE	C5934.D	02/02/93
11				
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COMMENTS:

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0 0553 | SBLK51

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: Z0060 SAS No.: SDG No.: Z0060

Amc-2/12/93

Matrix: (soil/water) SOIL Lab Sample ID: SBLK51

Sample wt/vol: 30.0 (g/mL) G Lab File ID: C5902.D

Level: (low/med) LOW Date Received:.. / /

% Moisture: 0 decanted: (Y/N) N Date Extracted:01/20/93

Concentrated Extract Volume: 500(UL) Date Analyzed: 01/29/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	330	U
111-44-4	bis(2-Chloroethyl)ether	330	U
95-57-8	2-Chlorophenol	330	U
541-73-1	1,3-Dichlorobenzene	330	U
106-46-7	1,4-Dichlorobenzene	330	U
95-50-1	1,2-Dichlorobenzene	330	U
95-48-7	2-Methylphenol	330	U
108-60-1	2,2'-oxybis(1-Chloropropane)	330	U
106-44-5	4-Methylphenol	330	U
621-64-7	N-Nitroso-di-n-propylamine	330	U
67-72-1	Hexachloroethane	330	U
98-95-3	Nitrobenzene	330	U
78-59-1	Isophorone	330	U
88-75-5	2-Nitrophenol	330	U
105-67-9	2,4-Dimethylphenol	330	U
111-91-1	bis(2-Chloroethoxy)methane	330	U
120-83-2	2,4-Dichlorophenol	330	U
120-82-1	1,2,4-Trichlorobenzene	330	U
91-20-3	Naphthalene	330	U
106-47-8	4-Chloroaniline	330	U
87-68-3	Hexachlorobutadiene	330	U
59-50-7	4-Chloro-3-methylphenol	330	U
91-57-6	2-Methylnaphthalene	330	U
77-47-4	Hexachlorocyclopentadiene	330	U
88-06-2	2,4,6-Trichlorophenol	330	U
95-95-4	2,4,5-Trichlorophenol	800	U
91-58-7	2-Chloronaphthalene	330	U
88-74-4	2-Nitroaniline	800	U
131-11-3	Dimethylphthalate	330	U
208-96-8	Acenaphthylene	330	U
606-20-2	2,6-Dinitrotoluene	330	U
99-09-2	3-Nitroaniline	800	U
83-32-9	Acenaphthene	330	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK51

Lab Name: IEA/CT Contract: 0554

Lab Code: IEACT Case No.: Z0060 SAS No.: SDG No.: Z0060

Matrix: (soil/water) SOIL Lab Sample ID: SBLK51

Sample wt/vol: 30.0 (g/mL) G Lab File ID: C5902.D

Level: (low/med) LOW Date Received: / /

% Moisture: 0 decanted: (Y/N) N Date Extracted: 01/20/93

Concentrated Extract Volume: 500(UL) Date Analyzed: 01/29/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
51-28-5	2,4-Dinitrophenol	800	U
100-02-7	4-Nitrophenol	800	U
132-64-9	Dibenzofuran	330	U
121-14-2	2,4-Dinitrotoluene	330	U
84-66-2	Diethylphthalate	330 ~~28~~	~~J~~ U
7005-72-3	4-Chlorophenyl-phenylether	330	U
86-73-7	Fluorene	330	U
100-01-6	4-Nitroaniline	800	U
534-52-1	4,6-Dinitro-2-methylphenol	800	U
86-30-6	N-Nitrosodiphenylamine (1)	330	U
101-55-3	4-Bromophenyl-phenylether	330	U
118-74-1	Hexachlorobenzene	330	U
87-86-5	Pentachlorophenol	800	U
85-01-8	Phenanthrene	330	U
120-12-7	Anthracene	330	U
86-74-8	Carbazole	330	U
84-74-2	Di-n-butylphthalate	19	J
206-44-0	Fluoranthene	330	U
129-00-0	Pyrene	330	U
85-68-7	Butylbenzylphthalate	5	J
91-94-1	3,3'-Dichlorobenzidine	330	U
56-55-3	Benzo(a)anthracene	330	U
218-01-9	Chrysene	330	U
117-81-7	bis(2-Ethylhexyl)phthalate	28	J
117-84-0	Di-n-octylphthalate	330	U
205-99-2	Benzo(b)fluoranthene	330	U
207-08-9	Benzo(k)fluoranthene	330	U
50-32-8	Benzo(a)pyrene	330	U
193-39-5	Indeno(1,2,3-cd)pyrene	330	U
53-70-3	Dibenz(a,h)anthracene	330	U
191-24-2	Benzo(g,h,i)perylene	330	U

conc 2/11/93

1F

EPA SAMPLE NO.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SBLK51

Lab Name: IEA/CT Contract: 0555

Lab Code: IEACT Case No.: Z0060 SAS No.: SDG No.: Z0060

Matrix: (soil/water) SOIL Lab Sample ID: SBLK51

Sample wt/vol: 30.0 (g/mL) G Lab File ID: C5902.D

Level: (low/med) LOW Date Received: / /

% Moisture: 0 decanted: (Y/N) N Date Extracted: 01/20/93

Concentrated Extract Volume: 500(uL) Date Analyzed: 01/29/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:_____

Number TICs found: 20

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		ALDOL CONDENSATION PRODUCT	8.64	13000	JA
2.		UNKNOWN	7.91	1200	J
3.		↓	8.14	910	↓
4.	6258865	FURAN, 2,5-DIMETHYL-	5.04	730	JN
5.		UNKNOWN	10.25	500	J
6.		UNKNOWN HYDROCARBON	8.33	390	↓
7.	4436753	3-HEXENE-2,5-DIONE	10.92	370	JN
8.		UNKNOWN ACID	20.81	360 ~~370~~	J
9.	110861	PYRIDINE	5.97	220	JN
10.	4127937	3-PENTEN-2-ONE, 4-METHYL-	7.40	200	JN
11.	3404382	2-HEXENE, 2,5-DIMETHYL-	7.50	140	JN
12.		UNKNOWN	35.30	140	J
13.	7116860	1-HEXENE, 5,5-DIMETHYL-	12.25	98	JN
14.		~~1-HEXENE, 5~~ UNKNOWN HYDROCARBON	12.96	94	J
15.		UNKNOWN ALKANE	9.09	84	
16.		UNKNOWN	10.13	84	
17.		UNKNOWN ALKANE	9.21	83	
18.		UNKNOWN	35.83	81	
19.		↓	7.68	77	
20.			11.76	67	↓
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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK53

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: Z0060 SAS No.: SDG No.: Z0060

Lab File ID: C5903.D Lab Sample ID: SBLK53

Instrument ID: HP5970C Date Extracted: 01/21/93

Matrix: (soil/water) WATER Date Analyzed: 01/29/93

Level: (low/med) LOW Time Analyzed: 1309

0166

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	FIELDBLANK	0060006	C5915.D	02/01/93
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COMMENTS:

1B

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK53

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: Z0060 SAS No.: SDG No.: Z0060 0587

Matrix: (soil/water) WATER Lab Sample ID: SBLK53

Sample wt/vol: 1000 (g/mL) ML Lab File ID: C5903.D

Level: (low/med) LOW Date Received: / /

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 01/21/93

Concentrated Extract Volume: 1000(UL) Date Analyzed: 01/29/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-95-2	Phenol	0.5	J
111-44-4	bis(2-Chloroethyl)ether	10	U
95-57-8	2-Chlorophenol	10	U
541-73-1	1,3-Dichlorobenzene	10	U
106-46-7	1,4-Dichlorobenzene	10	U
95-50-1	1,2-Dichlorobenzene	10	U
95-48-7	2-Methylphenol	10	U
108-60-1	2,2'-oxybis(1-Chloropropane)	10	U
106-44-5	4-Methylphenol	10	U
621-64-7	N-Nitroso-di-n-propylamine	10	U
67-72-1	Hexachloroethane	10	U
98-95-3	Nitrobenzene	10	U
78-59-1	Isophorone	10	U
88-75-5	2-Nitrophenol	10	U
105-67-9	2,4-Dimethylphenol	10	U
111-91-1	bis(2-Chloroethoxy)methane	10	U
120-83-2	2,4-Dichlorophenol	10	U
120-82-1	1,2,4-Trichlorobenzene	10	U
91-20-3	Naphthalene	10	U
106-47-8	4-Chloroaniline	10	U
87-68-3	Hexachlorobutadiene	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-57-6	2-Methylnaphthalene	10	U
77-47-4	Hexachlorocyclopentadiene	10	U
88-06-2	2,4,6-Trichlorophenol	10	U
95-95-4	2,4,5-Trichlorophenol	25	U
91-58-7	2-Chloronaphthalene	10	U
88-74-4	2-Nitroaniline	25	U
131-11-3	Dimethylphthalate	10	U
208-96-8	Acenaphthylene	10	U
606-20-2	2,6-Dinitrotoluene	10	U
99-09-2	3-Nitroaniline	25	U
83-32-9	Acenaphthene	10	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK53

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: Z0060 SAS No.: SDG No.: Z0060

Matrix: (soil/water) WATER Lab Sample ID: SBLK53

Sample wt/vol: 1000 (g/mL) ML Lab File ID: C5903.D

Level: (low/med) LOW Date Received: / /

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 01/21/93

Concentrated Extract Volume: 1000(UL) Date Analyzed: 01/29/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
51-28-5	2,4-Dinitrophenol	25	U
100-02-7	4-Nitrophenol	25	U
132-64-9	Dibenzofuran	10	U
121-14-2	2,4-Dinitrotoluene	10	U
84-66-2	Diethylphthalate	0.3	J
7005-72-3	4-Chlorophenyl-phenylether	10	U
86-73-7	Fluorene	10	U
100-01-6	4-Nitroaniline	25	U
534-52-1	4,6-Dinitro-2-methylphenol	25	U
86-30-6	N-Nitrosodiphenylamine (1)	10	U
101-55-3	4-Bromophenyl-phenylether	10	U
118-74-1	Hexachlorobenzene	10	U
87-86-5	Pentachlorophenol	25	U
85-01-8	Phenanthrene	10	U
120-12-7	Anthracene	10	U
86-74-8	Carbazole	10	U
84-74-2	Di-n-butylphthalate	0.3	J
206-44-0	Fluoranthene	10	U
129-00-0	Pyrene	10	U
85-68-7	Butylbenzylphthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	10	U
56-55-3	Benzo(a)anthracene	10	U
218-01-9	Chrysene	10	U
117-81-7	bis(2-Ethylhexyl)phthalate	0.8	J
117-84-0	Di-n-octylphthalate	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
50-32-8	Benzo(a)pyrene	10	U
193-39-5	Indeno(1,2,3-cd)pyrene	10	U
53-70-3	Dibenz(a,h)anthracene	10	U
191-24-2	Benzo(g,h,i)perylene	10	U

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
0589
SBLK53

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: ~~Z~~0060 SAS No.: SDG No.: Z0060

Matrix: (soil/water) WATER ave 2/12/93 Lab Sample ID: SBLK53

Sample wt/vol: 1000 (g/mL) ML Lab File ID: C5903.D

Level: (low/med) LOW Date Received: / /

% Moisture: _____ decanted: (Y/N)___ Date Extracted: 01/21/93

Concentrated Extract Volume: 1000(uL) Date Analyzed: 01/29/93

Injection Volume: 2.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:_____

Number TICs found: ~~0~~ 4 CMC 2/11/93

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	8.89	12	J
2.		ALDOL CONDENSATION PRODUCT	8.47	6	JB
3.		UNKNOWN	9.56	3	J
4.		↓	10.61	2	J
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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

0173

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: Z0060 SAS No.: SDG No.: Z0060

Lab File ID (Standard): C5900.D CMC 2/12/93 Date Analyzed: 01/29/93

Instrument ID: HP5970C Time Analyzed: 0928

		IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT #
	12 HOUR STD	36871	12.28	140387	15.55	89315	20.20
	UPPER LIMIT	73742	12.78	280774	16.05	178630	20.70
	LOWER LIMIT	18436	11.78	70194	15.05	44658	19.70
	EPA SAMPLE No.						
01	SBLK51	32178	12.30	128738	15.55	81641	20.23
02	SBLK53	33040	12.27	132728	15.53	77614	20.20
03	S-102	29163	12.29	126456	15.55	78307	20.22
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IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

0174

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: Z0060 SAS No.: SDG No.: Z0060

Lab File ID (Standard): C5900.D Date Analyzed: 01/29/93

Instrument ID: HP5970C Time Analyzed: 0928

		IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6(PRY) AREA #	RT #
	12 HOUR STD	153800	24.10	131326	31.52	104503	38.61
	UPPER LIMIT	307600	24.60	262652	32.02	209006	39.11
	LOWER LIMIT	76900	23.60	65663	31.02	52252	38.11
	EPA SAMPLE No.						
01	SBLK51	150352	24.12	113972	31.51	86078	38.59
02	SBLK53	146754	24.10	87461	31.49	59973	38.55
03	S-102	95249	24.15	12601*	31.56	8811*	38.64
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IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

0175

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: Z0060 SAS No.: SDG No.: Z0060

Lab File ID (Standard): C5912.D Date Analyzed: 02/01/93

Instrument ID: HP5970C Time Analyzed: 1216

		IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT #
	12 HOUR STD	30668	12.13	121572	15.38	71044	20.03
	UPPER LIMIT	61336	12.63	243144	15.88	142088	20.53
	LOWER LIMIT	15334	11.63	60786	14.88	35522	19.53
	EPA SAMPLE No.						
01	2-100MSB	28727	12.13	119412	15.37	73719	20.03
02	QCCHECKSTD	30028	12.13	122436	15.39	80552	20.04
03	FIELDBLANK	29571	12.12	109792	15.37	72532	20.02
04	S-100	27910	12.17	110865	15.41	69230	20.07
05	S-101	25702	12.10	107963	15.35	62886	20.01
06	S-102RE	28059	12.12	117246	15.36	81765	20.01
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IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

0176

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: Z0060 SAS No.: SDG No.: Z0060

Lab File ID (Standard): C5912.D amc2/12/93 Date Analyzed: 02/01/93

Instrument ID: HP5970C Time Analyzed: 1216

		IS4(PHN) AREA #	RT #	IS5(CRY) AREA #	RT #	IS6(PRY) AREA #	RT #
	12 HOUR STD	145774	23.92	112561	31.25	106859	38.10
	UPPER LIMIT	291548	24.42	225122	31.75	213718	38.60
	LOWER LIMIT	72887	23.42	56280	30.75	53430	37.60
	EPA SAMPLE No.						
01	2-100MSB	139116	23.92	98779	31.22	76345	38.06
02	QCCHECKSTD	142838	23.94	112558	31.28	123548	38.11
03	FIELDBLANK	136329	23.90	117766	31.22	92878	38.06
04	S-100	131794	23.97	103107	31.40	49587*	38.24
05	S-101	129976	23.91	104060	31.30	44642*	38.15
06	S-102RE	109031	23.96	18592*	31.43	11299*	38.14
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IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

0177

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: Z0060 SAS No.: SDG No.: Z0060

Lab File ID (Standard): C5924.D Date Analyzed: 02/02/93

Instrument ID: HP5970C Time Analyzed: 1118

		IS1(DCB) AREA #	RT #	IS2(NPT) AREA #	RT #	IS3(ANT) AREA #	RT #
	12 HOUR STD	35902	12.17	136695	15.43	89550	20.10
	UPPER LIMIT	71804	12.67	273390	15.93	179100	20.60
	LOWER LIMIT	17951	11.67	68348	14.93	44775	19.60
	EPA SAMPLE No.						
01	s-99	29828	12.18	124654	15.43	79049	20.08
02	S-100MS	24332	12.17	96083	15.43	59600	20.09
03	S-100MSD	23506	12.18	96227	15.43	67553	20.08
04	S-101RE	25959	12.19	107614	15.45	64059	20.11
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IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

8C
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

0178

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: Z0060 SAS No.: SDG No.: Z0060

Lab File ID (Standard): C5924.D amc2112(am) Date Analyzed: 02/02/93

Instrument ID: HP5970C Time Analyzed: 1118

		IS4(PHN) AREA	#	RT	#	IS5(CRY) AREA	#	RT	#	IS6(PRY) AREA	#	RT	#
	12 HOUR STD	162227		23.99		129748		31.34		100452		38.26	
	UPPER LIMIT	324454		24.49		259496		31.84		200904		38.76	
	LOWER LIMIT	81114		23.49		64874		30.84		50226		37.76	
	EPA SAMPLE No.												
01	s-99	140301		23.97		131032		31.32		95840		38.24	
02	S-100MS	143980		23.99		100269		31.43		43694	*	38.39	
03	S-100MSD	149079		23.99		85664		31.46		29336	*	38.35	
04	S-101RE	143905		24.02		101370		31.45		37337	*	38.43	
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IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S99 0652

Lab Name: IEA/CT Contract:

Lab Code: IIEACT Case No.: 0060 SAS No.: SDG No.: Z0060

Matrix: (soil/water) SOIL Lab Sample ID: 0060001

Sample wt/vol: 30.0 (g/mL) G Lab File ID: A1209211.D

% Moisture: 12 decanted: (Y/N) N Date Received: 01/19/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 01/21/93

Concentrated Extract Volume: 5000(uL) Date Analyzed: 02/10/93

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	38	U
11104-28-2	Aroclor-1221	76	U
11141-16-5	Aroclor-1232	38	U
53469-21-9	Aroclor-1242	38	U
12672-29-6	Aroclor-1248	38	U
11097-69-1	Aroclor-1254	38	U
11096-82-5	Aroclor-1260	120	P

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S100 0662

Lab Name: IEA/CT Contract:

Lab Code: IIEACT Case No.: 0060 SAS No.: SDG No.: Z0060

Matrix: (soil/water) SOIL Lab Sample ID: 0060002

Sample wt/vol: 30.0 (g/mL) G Lab File ID: A1209213.D

% Moisture: 12 decanted: (Y/N) N Date Received: 01/19/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 01/21/93

Concentrated Extract Volume: 5000(uL) Date Analyzed: 02/10/93

Injection Volume: 1.0(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 7.4 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	380	U
11104-28-2	Aroclor-1221	760	U
11141-16-5	Aroclor-1232	380	U
53469-21-9	Aroclor-1242	380	U
12672-29-6	Aroclor-1248	380	U
11097-69-1	Aroclor-1254	380	U
11096-82-5	Aroclor-1260	5400	P

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S100DL

0671

Lab Name: IEA/CT Contract:

Lab Code: IIEACT Case No.: 0060 SAS No.: SDG No.: Z0060

Matrix: (soil/water) SOIL Lab Sample ID: 0060002DL

Sample wt/vol: 30.0 (g/mL) G Lab File ID: A1209212.D

% Moisture: 12 decanted: (Y/N) N Date Received: 01/19/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 01/21/93

Concentrated Extract Volume: 5000(uL) Date Analyzed: 02/10/93

Injection Volume: 1.0(uL) Dilution Factor: 100.0

GPC Cleanup: (Y/N) Y pH: 7.4 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	3800	U
11104-28-2	Aroclor-1221	7600	U
11141-16-5	Aroclor-1232	3800	U
53469-21-9	Aroclor-1242	3800	U
12672-29-6	Aroclor-1248	3800	U
11097-69-1	Aroclor-1254	3800	U
11096-82-5	Aroclor-1260	4100	PD

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0678 S101

Lab Name: IEA/CT Contract:

Lab Code: IIEACT Case No.: 0060 SAS No.: SDG No.: Z0060

Matrix: (soil/water) SOIL Lab Sample ID: 0060003

Sample wt/vol: 30.0 (g/mL) G Lab File ID: A1209215.D

% Moisture: 14 decanted: (Y/N) N Date Received: 01/19/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 01/21/93

Concentrated Extract Volume: 5000(uL) Date Analyzed: 02/10/93

Injection Volume: 1.0(uL) Dilution Factor: 100.0

GPC Cleanup: (Y/N) Y pH: 7.3 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	3800	U
11104-28-2	Aroclor-1221	7800	U
11141-16-5	Aroclor-1232	3800	U
53469-21-9	Aroclor-1242	3800	U
12672-29-6	Aroclor-1248	3800	U
11097-69-1	Aroclor-1254	3800	U
11096-82-5	Aroclor-1260	58000	P

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S101DL

Lab Name: IEA/CT Contract:

Lab Code: IIEACT Case No.: 0060 SAS No.: SDG No.: Z0060

Matrix: (soil/water) SOIL Lab Sample ID: 0060003DL

0687

Sample wt/vol: 30.0 (g/mL) G Lab File ID: A1209214.D

% Moisture: 14 decanted: (Y/N) N Date Received: 01/19/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 01/21/93

Concentrated Extract Volume: 5000(uL) Date Analyzed: 02/10/93

Injection Volume: 1.0(uL) Dilution Factor: 1000.0

GPC Cleanup: (Y/N) Y pH: 7.3 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	38000	U
11104-28-2	Aroclor-1221	78000	U
11141-16-5	Aroclor-1232	38000	U
53469-21-9	Aroclor-1242	38000	U
12672-29-6	Aroclor-1248	38000	U
11097-69-1	Aroclor-1254	38000	U
11096-82-5	Aroclor-1260	71000	PD

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S102 0694

Lab Name: IEA/CT Contract:

Lab Code: IIEACT Case No.: 0060 SAS No.: SDG No.: Z0060

Matrix: (soil/water) SOIL Lab Sample ID: 0060004

Sample wt/vol: 30.0 (g/mL) G Lab File ID: A1209217.D

% Moisture: 12 decanted: (Y/N) N Date Received: 01/19/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 01/21/93

Concentrated Extract Volume: 5000(uL) Date Analyzed: 02/10/93

Injection Volume: 1.0(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	380	U
11104-28-2	Aroclor-1221	760	U
11141-16-5	Aroclor-1232	380	U
53469-21-9	Aroclor-1242	380	U
12672-29-6	Aroclor-1248	380	U
11097-69-1	Aroclor-1254	380	U
11096-82-5	Aroclor-1260	1400	P

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

0703 S102DL

Lab Name: IEA/CT Contract:

Lab Code: IIEACT Case No.: 0060 SAS No.: SDG No.: Z0060

Matrix: (soil/water) SOIL Lab Sample ID: 0060004DL

Sample wt/vol: 30.0 (g/mL) G Lab File ID: A1209216.D

% Moisture: 12 decanted: (Y/N) N Date Received: 01/19/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 01/21/93

Concentrated Extract Volume: 5000(uL) Date Analyzed: 02/10/93

Injection Volume: 1.0(uL) Dilution Factor: 100.0

GPC Cleanup: (Y/N) Y pH: 7.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	3800	U
11104-28-2	Aroclor-1221	7600	U
11141-16-5	Aroclor-1232	3800	U
53469-21-9	Aroclor-1242	3800	U
12672-29-6	Aroclor-1248	3800	U
11097-69-1	Aroclor-1254	3800	U
11096-82-5	Aroclor-1260	2300	JPD

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CS43

Lab Name: IEA/CT Contract:

Lab Code: IIEACT Case No.: 0060 SAS No.: SDG No.: Z0060 0709

Matrix: (soil/water) SOIL Lab Sample ID: 0060005

Sample wt/vol: 30.0 (g/mL) G Lab File ID: A1209223.D

% Moisture: 18 decanted: (Y/N) N Date Received: 01/19/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 01/21/93

Concentrated Extract Volume: 5000(uL) Date Analyzed: 02/11/93

Injection Volume: 1.0(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 7.7 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	400	U
11104-28-2	Aroclor-1221	820	U
11141-16-5	Aroclor-1232	400	U
53469-21-9	Aroclor-1242	400	U
12672-29-6	Aroclor-1248	400	U
11097-69-1	Aroclor-1254	400	U
11096-82-5	Aroclor-1260	1400	P

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CS43DL

Lab Name: IEA/CT Contract:

Lab Code: IIEACT Case No.: 0060 SAS No.: SDG No.: Z0060 0718

Matrix: (soil/water) SOIL Lab Sample ID: 0060005DL

Sample wt/vol: 30.0 (g/mL) G Lab File ID: A1209218.D

% Moisture: 18 decanted: (Y/N) N Date Received: 01/19/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 01/21/93

Concentrated Extract Volume: 5000(uL) Date Analyzed: 02/10/93

Injection Volume: 1.0(uL) Dilution Factor: 100.0

GPC Cleanup: (Y/N) Y pH: 7.7 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	4000	U
11104-28-2	Aroclor-1221	8200	U
11141-16-5	Aroclor-1232	4000	U
53469-21-9	Aroclor-1242	4000	U
12672-29-6	Aroclor-1248	4000	U
11097-69-1	Aroclor-1254	4000	U
11096-82-5	Aroclor-1260	3000	JD

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FB011893

0725

Lab Name: IEA/CT Contract:

Lab Code: IIEACT Case No.: 0060 SAS No.: SDG No.: Z0060

Matrix: (soil/water) WATER Lab Sample ID: 0060006

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A1209225.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 01/19/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 01/19/93

Concentrated Extract Volume: 10000(uL) Date Analyzed: 02/11/93

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CS75 0730

Lab Name: IEA/CT Contract:

Lab Code: IIEACT Case No.: 0060 SAS No.: SDG No.: Z0060

Matrix: (soil/water) SOIL Lab Sample ID: 0060008

Sample wt/vol: 30.0 (g/mL) G Lab File ID: A1209230.D

% Moisture: 10 decanted: (Y/N) N Date Received: 01/21/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 01/22/93

Concentrated Extract Volume: 5000(uL) Date Analyzed: 02/11/93

Injection Volume: 1.0(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 7.7 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	370	U
11104-28-2	Aroclor-1221	740	U
11141-16-5	Aroclor-1232	370	U
53469-21-9	Aroclor-1242	370	U
12672-29-6	Aroclor-1248	370	U
11097-69-1	Aroclor-1254	370	U
11096-82-5	Aroclor-1260	3600	C P

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CS75DL - 0747

Lab Name: IEA/CT Contract:

Lab Code: IIEACT Case No.: 0060 SAS No.: SDG No.: Z0060

Matrix: (soil/water) SOIL Lab Sample ID: 0060008DL

Sample wt/vol: 30.0 (g/mL) G Lab File ID: A1209229.D

% Moisture: 10 decanted: (Y/N) N Date Received: 01/21/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 01/22/93

Concentrated Extract Volume: 5000(uL) Date Analyzed: 02/11/93

Injection Volume: 1.0(uL) Dilution Factor: 100.0

GPC Cleanup: (Y/N) Y pH: 7.7 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	3700	U
11104-28-2	Aroclor-1221	7400	U
11141-16-5	Aroclor-1232	3700	U
53469-21-9	Aroclor-1242	3700	U
12672-29-6	Aroclor-1248	3700	U
11097-69-1	Aroclor-1254	3700	U
11096-82-5	Aroclor-1260	6900	PD

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S103 0754

Lab Name: IEA/CT Contract:

Lab Code: IIEACT Case No.: 0060 SAS No.: SDG No.: Z0060

Matrix: (soil/water) SOIL Lab Sample ID: 0060009

Sample wt/vol: 30.0 (g/mL) G Lab File ID: A1209231.D

% Moisture: 9 decanted: (Y/N) N Date Received: 01/21/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 01/22/93

Concentrated Extract Volume: 5000(uL) Date Analyzed: 02/11/93

Injection Volume: 1.0(uL) Dilution Factor: 100.0

GPC Cleanup: (Y/N) Y pH: 7.1 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	3600	U
11104-28-2	Aroclor-1221	7400	U
11141-16-5	Aroclor-1232	3600	U
53469-21-9	Aroclor-1242	3600	U
12672-29-6	Aroclor-1248	3600	U
11097-69-1	Aroclor-1254	3600	U
11096-82-5	Aroclor-1260	40000	P

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S103DL

Lab Name: IEA/CT Contract:

Lab Code: IIEACT Case No.: 0060 SAS No.: SDG No.: Z0060

Matrix: (soil/water) SOIL Lab Sample ID: 0060009DL

Sample wt/vol: 30.0 (g/mL) G Lab File ID: A1209317.D 0763

% Moisture: 9 decanted: (Y/N) N Date Received: 01/21/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 01/22/93

Concentrated Extract Volume: 5000(uL) Date Analyzed: 02/16/93

Injection Volume: 1.0(uL) Dilution Factor: 1000.0

GPC Cleanup: (Y/N) Y pH: 7.1 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	36000	U
11104-28-2	Aroclor-1221	74000	U
11141-16-5	Aroclor-1232	36000	U
53469-21-9	Aroclor-1242	36000	U
12672-29-6	Aroclor-1248	36000	U
11097-69-1	Aroclor-1254	36000	U
11096-82-5	Aroclor-1260	65000	PD

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CS51

Lab Name: IEA/CT Contract:

Lab Code: IIEACT Case No.: 0060 SAS No.: SDG No.: Z0060

Matrix: (soil/water) SOIL Lab Sample ID: 0060010

Sample wt/vol: 30.0 (g/mL) G Lab File ID: A1209273.D

0770

% Moisture: 13 decanted: (Y/N) N Date Received: 01/21/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 01/22/93

Concentrated Extract Volume: 5000(uL) Date Analyzed: 02/13/93

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.4 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	38	U
11104-28-2	Aroclor-1221	77	U
11141-16-5	Aroclor-1232	38	U
53469-21-9	Aroclor-1242	38	U
12672-29-6	Aroclor-1248	38	U
11097-69-1	Aroclor-1254	38	U
11096-82-5	Aroclor-1260	1100	P

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CS51DL

Lab Name: IEA/CT Contract:

Lab Code: IIEACT Case No.: 0060 SAS No.: SDG No.: Z0060

Matrix: (soil/water) SOIL Lab Sample ID: 0060010DL 0781

Sample wt/vol: 30.0 (g/mL) G Lab File ID: A1209267.D

% Moisture: 13 decanted: (Y/N) N Date Received: 01/21/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 01/22/93

Concentrated Extract Volume: 5000(uL) Date Analyzed: 02/13/93

Injection Volume: 1.0(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 5.4 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	380	U
11104-28-2	Aroclor-1221	770	U
11141-16-5	Aroclor-1232	380	U
53469-21-9	Aroclor-1242	380	U
12672-29-6	Aroclor-1248	380	U
11097-69-1	Aroclor-1254	380	U
11096-82-5	Aroclor-1260	1100	PD

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CS50

Lab Name: IEA/CT Contract:

Lab Code: IIEACT Case No.: 0060 SAS No.: SDG No.: Z0060

Matrix: (soil/water) SOIL Lab Sample ID: 0060011 0791

Sample wt/vol: 30.0 (g/mL) G Lab File ID: A1209278.D

% Moisture: 13 decanted: (Y/N) N Date Received: 01/21/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 01/22/93

Concentrated Extract Volume: 5000(uL) Date Analyzed: 02/13/93

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.6 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	38	U
11104-28-2	Aroclor-1221	77	U
11141-16-5	Aroclor-1232	38	U
53469-21-9	Aroclor-1242	38	U
12672-29-6	Aroclor-1248	38	U
11097-69-1	Aroclor-1254	38	U
11096-82-5	Aroclor-1260	250	P

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CS50DL

Lab Name: IEA/CT Contract:

Lab Code: IIEACT Case No.: 0060 SAS No.: SDG No.: Z0060

Matrix: (soil/water) SOIL Lab Sample ID: 0060011DL

Sample wt/vol: 30.0 (g/mL) G Lab File ID: A1209277.D 0802

% Moisture: 13 decanted: (Y/N) N Date Received: 01/21/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 01/22/93

Concentrated Extract Volume: 5000(uL) Date Analyzed: 02/13/93

Injection Volume: 1.0(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 6.6 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	380	U
11104-28-2	Aroclor-1221	770	U
11141-16-5	Aroclor-1232	380	U
53469-21-9	Aroclor-1242	380	U
12672-29-6	Aroclor-1248	380	U
11097-69-1	Aroclor-1254	380	U
11096-82-5	Aroclor-1260	270	JPD

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S115

Lab Name: IEA/CT Contract:

Lab Code: IIEACT Case No.: 0060 SAS No.: SDG No.: Z0060

0811

Matrix: (soil/water) SOIL Lab Sample ID: 0060012

Sample wt/vol: 30.0 (g/mL) G Lab File ID: A1209286.D

% Moisture: 12 decanted: (Y/N) N Date Received: 01/21/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 01/22/93

Concentrated Extract Volume: 5000(uL) Date Analyzed: 02/13/93

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.6 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	38	U
11104-28-2	Aroclor-1221	76	U
11141-16-5	Aroclor-1232	38	U
53469-21-9	Aroclor-1242	38	U
12672-29-6	Aroclor-1248	38	U
11097-69-1	Aroclor-1254	38	U
11096-82-5	Aroclor-1260	480	P

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S115DL

Lab Name: IEA/CT Contract:

Lab Code: IIEACT Case No.: 0060 SAS No.: SDG No.: Z0060

Matrix: (soil/water) SOIL Lab Sample ID: 0060012DL

0822

Sample wt/vol: 30.0 (g/mL) G Lab File ID: A1209281.D

% Moisture: 12 decanted: (Y/N) N Date Received: 01/21/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 01/22/93

Concentrated Extract Volume: 5000(uL) Date Analyzed: 02/13/93

Injection Volume: 1.0(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 6.6 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	380	U
11104-28-2	Aroclor-1221	760	U
11141-16-5	Aroclor-1232	380	U
53469-21-9	Aroclor-1242	380	U
12672-29-6	Aroclor-1248	380	U
11097-69-1	Aroclor-1254	380	U
11096-82-5	Aroclor-1260	590	PD

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S113

Lab Name: IEA/CT Contract:

Lab Code: IIEACT Case No.: 0060 SAS No.: SDG No.: Z0060

Matrix: (soil/water) SOIL Lab Sample ID: 0060013 0831

Sample wt/vol: 30.0 (g/mL) G Lab File ID: A1209289.D

% Moisture: 12 decanted: (Y/N) N Date Received: 01/21/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 01/22/93

Concentrated Extract Volume: 5000(uL) Date Analyzed: 02/13/93

Injection Volume: 1.0(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 5.5 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	380	U
11104-28-2	Aroclor-1221	760	U
11141-16-5	Aroclor-1232	380	U
53469-21-9	Aroclor-1242	380	U
12672-29-6	Aroclor-1248	380	U
11097-69-1	Aroclor-1254	380	U
11096-82-5	Aroclor-1260	3100	P

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S113DL

Lab Name: IEA/CT Contract:

Lab Code: IIEACT Case No.: 0060 SAS No.: SDG No.: Z0060

Matrix: (soil/water) SOIL Lab Sample ID: 006001S3DL 0840

Sample wt/vol: 30.0 (g/mL) G Lab File ID: A1209419.D

% Moisture: 12 decanted: (Y/N) N Date Received: 01/21/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 01/22/93

Concentrated Extract Volume: 5000(uL) Date Analyzed: 02/20/93

Injection Volume: 1.0(uL) Dilution Factor: 100.0

GPC Cleanup: (Y/N) Y pH: 5.5 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	3800	U
11104-28-2	Aroclor-1221	7600	U
11141-16-5	Aroclor-1232	3800	U
53469-21-9	Aroclor-1242	3800	U
12672-29-6	Aroclor-1248	3800	U
11097-69-1	Aroclor-1254	3800	U
11096-82-5	Aroclor-1260	3400	JPD

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S111 0 0847

Lab Name: IEA/CT Contract:

Lab Code: IIEACT Case No.: 0060 SAS No.: SDG No.: Z0060

Matrix: (soil/water) SOIL Lab Sample ID: 0060014

Sample wt/vol: 30.0 (g/mL) G Lab File ID: A1209293.D

% Moisture: 15 decanted: (Y/N) N Date Received: 01/21/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 01/22/93

Concentrated Extract Volume: 5000(uL) Date Analyzed: 02/14/93

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 6.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	39	U
11104-28-2	Aroclor-1221	79	U
11141-16-5	Aroclor-1232	39	U
53469-21-9	Aroclor-1242	39	U
12672-29-6	Aroclor-1248	39	U
11097-69-1	Aroclor-1254	39	U
11096-82-5	Aroclor-1260	1300	

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S111DL

0 0857

Lab Name: IEA/CT Contract:

Lab Code: IIEACT Case No.: 0060 SAS No.: SDG No.: Z0060

Matrix: (soil/water) SOIL Lab Sample ID: 0060014DL

Sample wt/vol: 30.0 (g/mL) G Lab File ID: A1209292.D

% Moisture: 15 decanted: (Y/N) N Date Received: 01/21/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 01/22/93

Concentrated Extract Volume: 5000(uL) Date Analyzed: 02/14/93

Injection Volume: 1.0(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 6.0 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	390	U
11104-28-2	Aroclor-1221	790	U
11141-16-5	Aroclor-1232	390	U
53469-21-9	Aroclor-1242	390	U
12672-29-6	Aroclor-1248	390	U
11097-69-1	Aroclor-1254	390	U
11096-82-5	Aroclor-1260	1500	PD

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CS49

Lab Name: IEA/CT Contract:

Lab Code: IIEACT Case No.: 0060 SAS No.: SDG No.: Z0060

Matrix: (soil/water) SOIL Lab Sample ID: 0060015

0865

Sample wt/vol: 30.0 (g/mL) G Lab File ID: A1209295.D

% Moisture: 12 decanted: (Y/N) N Date Received: 01/21/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 01/22/93

Concentrated Extract Volume: 5000(uL) Date Analyzed: 02/14/93

Injection Volume: 1.0(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 7.2 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	380	U
11104-28-2	Aroclor-1221	760	U
11141-16-5	Aroclor-1232	380	U
53469-21-9	Aroclor-1242	380	U
12672-29-6	Aroclor-1248	380	U
11097-69-1	Aroclor-1254	380	U
11096-82-5	Aroclor-1260	2800	C P

1D 0882

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CS49DL

Lab Name: IEA/CT Contract:

Lab Code: IIEACT Case No.: 0060 SAS No.: SDG No.: Z0060

Matrix: (soil/water) SOIL Lab Sample ID: 0060015DL

Sample wt/vol: 30.0 (g/mL) G Lab File ID: A1209420.D

% Moisture: 12 decanted: (Y/N) N Date Received: 01/21/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 01/22/93

Concentrated Extract Volume: 5000(uL) Date Analyzed: 02/20/93

Injection Volume: 1.0(uL) Dilution Factor: 100.0

GPC Cleanup: (Y/N) Y pH: 7.2 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	3800	U
11104-28-2	Aroclor-1221	7600	U
11141-16-5	Aroclor-1232	3800	U
53469-21-9	Aroclor-1242	3800	U
12672-29-6	Aroclor-1248	3800	U
11097-69-1	Aroclor-1254	3800	U
11096-82-5	Aroclor-1260	3500	JPD

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

FB012093

Lab Name: IEA/CT Contract:

Lab Code: IIEACT Case No.: 0060 SAS No.: SDG No.: Z0060 0890

Matrix: (soil/water) WATER Lab Sample ID: 0060016

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A1209227.D

% Moisture: _____ decanted: (Y/N)___ Date Received: 01/21/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 01/22/93

Concentrated Extract Volume: 10000(uL) Date Analyzed: 02/11/93

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO. 0896

S114

Lab Name: IEA/CT Contract:

Lab Code: IIEACT Case No.: 0060 SAS No.: SDG No.: Z0060

Matrix: (soil/water) SOIL Lab Sample ID: 0060017

Sample wt/vol: 30.0 (g/mL) G Lab File ID: A1209320.D

% Moisture: 7 decanted: (Y/N) N Date Received: 01/21/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 01/22/93

Concentrated Extract Volume: 5000(uL) Date Analyzed: 02/16/93

Injection Volume: 1.0(uL) Dilution Factor: 100.0

GPC Cleanup: (Y/N) Y pH: 7.2 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	3500	U
11104-28-2	Aroclor-1221	7200	U
11141-16-5	Aroclor-1232	3500	U
53469-21-9	Aroclor-1242	3500	U
12672-29-6	Aroclor-1248	3500	U
11097-69-1	Aroclor-1254	3500	U
11096-82-5	Aroclor-1260	120000	P

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S114DL 0905

Lab Name: IEA/CT Contract:

Lab Code: IIEACT Case No.: 0060 SAS No.: SDG No.: Z0060

Matrix: (soil/water) SOIL Lab Sample ID: 0060017DL

Sample wt/vol: 30.0 (g/mL) G Lab File ID: A1209319.D

% Moisture: 7 decanted: (Y/N) N Date Received: 01/21/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 01/22/93

Concentrated Extract Volume: 5000(uL) Date Analyzed: 02/16/93

Injection Volume: 1.0(uL) Dilution Factor: 1000.0

GPC Cleanup: (Y/N) Y pH: 7.2 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	35000	U
11104-28-2	Aroclor-1221	72000	U
11141-16-5	Aroclor-1232	35000	U
53469-21-9	Aroclor-1242	35000	U
12672-29-6	Aroclor-1248	35000	U
11097-69-1	Aroclor-1254	35000	U
11096-82-5	Aroclor-1260	90000	PD

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S112 0913

Lab Name: IEA/CT Contract:

Lab Code: IIEACT Case No.: 0060 SAS No.: SDG No.: Z0060

Matrix: (soil/water) SOIL Lab Sample ID: 0060018

Sample wt/vol: 30.0 (g/mL) G Lab File ID: A1209322.D

% Moisture: 14 decanted: (Y/N) N Date Received: 01/21/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 01/22/93

Concentrated Extract Volume: 5000(uL) Date Analyzed: 02/16/93

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 5.9 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	38	U
11104-28-2	Aroclor-1221	78	U
11141-16-5	Aroclor-1232	38	U
53469-21-9	Aroclor-1242	38	U
12672-29-6	Aroclor-1248	38	U
11097-69-1	Aroclor-1254	38	U
11096-82-5	Aroclor-1260	1600	P

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S112DL 0924

Lab Name: IEA/CT Contract:

Lab Code: IIEACT Case No.: 0060 SAS No.: SDG No.: Z0060

Matrix: (soil/water) SOIL Lab Sample ID: 0060018DL

Sample wt/vol: 30.0 (g/mL) G Lab File ID: A1209321.D

% Moisture: 14 decanted: (Y/N) N Date Received: 01/21/93

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 01/22/93

Concentrated Extract Volume: 5000(uL) Date Analyzed: 02/16/93

Injection Volume: 1.0(uL) Dilution Factor: 10.0

GPC Cleanup: (Y/N) Y pH: 5.9 Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	380	U
11104-28-2	Aroclor-1221	780	U
11141-16-5	Aroclor-1232	380	U
53469-21-9	Aroclor-1242	380	U
12672-29-6	Aroclor-1248	380	U
11097-69-1	Aroclor-1254	380	U
11096-82-5	Aroclor-1260	1700	PD

2E
WATER PESTICIDE SURROGATE RECOVERY

0640

Lab Name: IEA/CT Contract:

Lab Code: IIEACT Case No.: 0060 SAS No.: SDG No.: Z0060

GC Column(1): RTX-35 ID: 0.53 (mm) GC Column(2): DB-1701 ID: 0.53 (mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	FB011893	80	78	19*	26*			2
02	PBLK53	78	74	68	46*			1
03	FB012093	89	86	42*	31*~~139~~			1
04	PBLK40	87	79	46*	52*			2
05								
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29								
30								

3/5/15

	ADVISORY QC LIMITS
TCX = Tetrachloro-m-xylene	(60-150)
DCB = Decachlorobiphenyl	(60-150)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

2F
SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: IEA/CT Contract: 0641

Lab Code: IEACT Case No.: 0060 SAS No.: SDG No.: Z0060

GC Column(1): RTX-35 ID: 0.53 (mm) GC Column(2): DB-1701 ID: 0.53 (mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	PBLK44	88	58*	61	62			1
02	S100MSB	96	69	64	78			0
03	S99	86	59*	83	94			1
04	S100DL	0D	0D	0D	0D			0
05	S100	95	108	90	93			0
06	S101DL	0D	0D	0D	0D			0
07	S101	0D	0D	0D	0D			0
08	S102DL	0D	0D	0D	0D			0
09	S102	89	166D	0D	547D			0
10	CS43DL	0D	0D	0D	0D			0
11	CS43	92	234D	409D	0D			0
12	PBLK51	75	54*	82	52*			2
13	CS75DL	0D	0D	0D	0D			0
14	CS75	96	132	104	132			0
15	S103	0D	0D	0D	0D			0
16	QCCKSTD	118	72	70	48*			1
17	S100MS	124	161D	123	204D			0
18	S100MSD	115	200D	219D	414D			0
19	CS51DL	90	264D	302D	437D			0
20	CS51	87	83	262*	869*			2
21	CS50DL	151D	188D	0D	0D			0
22	CS50	132	107	0*	0*			2
23	S115DL	119	122	216D	309D			0
24	S115	103	73	62	120			0
25	S113	137	217D	163D	114			0
26	S111DL	99	155D	48D	250D			0
27	S111	90	71	62	137			0
28	CS49	108	215D	66	1102D			0
29	S103DL	0D	0D	0D	0D			0
30	S114DL	0D	0D	0D	0D			0

	ADVISORY QC LIMITS
TCX = Tetrachloro-m-xylene	(60-150)
DCB = Decachlorobiphenyl	(60-150)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

2F

SOIL PESTICIDE SURROGATE RECOVERY

0642

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060 SAS No.: SDG No.: Z0060

GC Column(1): RTX-35 ID: 0.53 (mm) GC Column(2): DB-1701 ID: 0.53 (mm)

	EPA SAMPLE NO.	TCX 1 %REC #	TCX 2 %REC #	DCB 1 %REC #	DCB 2 %REC #	OTHER (1)	OTHER (2)	TOT OUT
01	S114	0D	0D	0D	0D			0
02	S112DL	106	202D	112	431D			0
03	S112	99	68	131	72			0
04	S113DL	0D	0D	0D	0D			0
05	CS49DL	0D	0D	0D	0D			0
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	ADVISORY QC LIMITS
TCX = Tetrachloro-m-xylene	(60-150)
DCB = Decachlorobiphenyl	(60-150)

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

IEA
200 Monroe Turnpike
Monroe, CT 06468 (203) ~~261-4458~~

0643

ug/L

PCB Matrix Spike/~~Matrix Spike Duplicate~~ ~~Recovery~~
Results Reported as ug/L mg/Kg ug/Kg

Lab Name: IEA Contract: _____

Lab Code: IEA Case No.: 0060 SAS No.: _____ SDG No.: 20060

Matrix Spike - EPA Sample No.:

S100 MSB

Compound	Spike Added	Sample Concentration	MS B Concentration	MS % Rec
Ar 1260	330.	0.	200	61.

Compound	Spike Added	MSD Concentration	MSD % Rec	% RPD

ug/L

Comments: _____

IEA
200 Monroe Turnpike
Monroe, CT 06468 (203) 261-4458

0644

FULL
PCB Matrix Spike/~~Matrix Spike Duplicate~~ Recovery
Results Reported as ug/L mg/Kg ug/Kg

Lab Name: IEA Contract:

Lab Code: IEA Case No.: 0060 SAS No.: SDG No.: 20060

Matrix Spike - EPA Sample No.:
QC CHECK STD

Compound	Spike Added	Sample Concentration	MS Concentration	MS % Rec
Ar 1242	330.	0.	280.	85.
Ar 1260	330.	0.	200.	61.

Compound	Spike Added	MSD Concentration	MSD % Rec	% RPD

Comments:

IEA
200 Monroe Turnpike
Monroe, CT 06468 (203) 261-4458

PCB Matrix Spike/Matrix Spike Duplicate Recovery
Results Reported as ug/L mg/Kg (ug/Kg)

Lab Name: IEA

Contract: ______________

Lab Code: IEA Case No.: 0060 SAS No.: ______ SDG No.: Z0060

Matrix Spike - EPA Sample No.: S100MS/MSD

Compound	Spike Added	Sample Concentration	MS Concentration	MS % Rec
Ar 1260	380.	5400.	5300.	~~NA~~ 0.0

VM 3/4/95

Compound	Spike Added	MSD Concentration	MSD % Rec	% RPD
Ar 1260	380.	5300.	~~NA~~ 0.0	0 ~~NA~~

a2 3/4

Comments: Impossible to calculate recovery due to the higher concentration in the sample

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLK40

Lab Name: IEA/CT Contract:

Lab Code: IIEACT Case No.: 0060 SAS No.: SDG No.: Z0060

Lab Sample ID: 0119-B05 Lab File ID: A1209262.D 0646

Matrix:(soil/water) WATER Extraction:(SepF,Cont/Sonc) SONC

Sulfur Cleanup: (Y/N) N Date Extracted: 01/19/93

Date Analyzed (1): 02/12/93 Date Analyzed (2): 02/22/93

Time Analyzed (1): 2107 Time Analyzed (2): 1011

Instrument ID (1): HP58901A Instrument ID (2): HP58905B

GC Column (1):RTX-35 ID: 0.53(mm) GC Column (2):DB-1701 ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	FB011893	0060006	02/11/93	02/22/93
02				
03				
04				
05				
06				
07				
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26				

COMMENTS: _____

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLK40

Lab Name: IEA/CT Contract:

Lab Code: IIEACT Case No.: 0060 SAS No.: SDG No.: Z0060

1239

Matrix: (soil/water) WATER Lab Sample ID: 0119-B05

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A1209262.D

% Moisture: _____ decanted: (Y/N)___ Date Received: / /

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 01/19/93

Concentrated Extract Volume: 10000(uL) Date Analyzed: 02/12/93

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLK44

Lab Name: IEA/CT Contract:

Lab Code: IEACT Case No.: 0060 SAS No.: SDG No.: Z0060 0647

Lab Sample ID: 0121-B01 Lab File ID: A1209208.D

Matrix:(soil/water) SOIL Extraction:(SepF,Cont/Sonc) SONC

Sulfur Cleanup: (Y/N) N Date Extracted: 01/21/93

Date Analyzed (1): 02/10/93 Date Analyzed (2): 02/23/93

Time Analyzed (1): 1414 Time Analyzed (2): 1614

Instrument ID (1): HP58901A Instrument ID (2): HP58905B

GC Column (1):RTX-35 ID: 0.53(mm) GC Column (2):DB-1701 ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	CS43	0060005	02/11/93	02/24/93
02	CS43DL	0060005DL	02/10/93	02/24/93
03	QCCKSTD	0060002STD	02/12/93	02/23/93
04	S100	0060002	02/10/93	02/24/93
05	S100DL	0060002DL	02/10/93	02/24/93
06	S100MS	0060002MS	02/12/93	02/24/93
07	S100MSB	0060002MSB	02/10/93	02/23/93
08	S100MSD	0060002MSD	02/13/93	02/24/93
09	S101	0060003	02/10/93	02/24/93
10	S101DL	0060003DL	02/10/93	02/24/93
11	S102	0060004	02/10/93	02/24/93
12	S102DL	0060004DL	02/10/93	02/24/93
13	S99	0060001	02/10/93	02/23/93
14				
15				
16				
17				
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COMMENTS: _____

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLK44

Lab Name: IEA/CT Contract: 1244

Lab Code: IIEACT Case No.: 0060 SAS No.: SDG No.: Z0060

Matrix: (soil/water) SOIL Lab Sample ID: 0121-B01

Sample wt/vol: 30.0 (g/mL) G Lab File ID: A1209208.D

% Moisture: 0 decanted: (Y/N) N Date Received: / /

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 01/21/93

Concentrated Extract Volume: 5000(uL) Date Analyzed: 02/10/93

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	33	U
11104-28-2	Aroclor-1221	67	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	33	U
11096-82-5	Aroclor-1260	33	U

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLK51 0648

Lab Name: IEA/CT Contract:

Lab Code: IIEACT Case No.: 0060 SAS No.: SDG No.: Z0060

Lab Sample ID: 0122-B01 Lab File ID: A1209228.D

Matrix:(soil/water) SOIL Extraction:(SepF,Cont/Sonc) SONC

Sulfur Cleanup: (Y/N) N Date Extracted: 01/22/93

Date Analyzed (1): 02/11/93 Date Analyzed (2): 02/22/93

Time Analyzed (1): 0811 Time Analyzed (2): 1214

Instrument ID (1): HP58901A Instrument ID (2): HP58905B

GC Column (1):RTX-35 ID: 0.53(mm) GC Column (2):DB-1701 ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	CS49	0060015	02/14/93	02/23/93
02	CS49DL	0060015DL	02/20/93	02/23/93
03	CS50	0060011	02/13/93	02/23/93
04	CS50DL	0060011DL	02/13/93	02/23/93
05	CS51	0060010	02/13/93	02/23/93
06	CS51DL	0060010DL	02/13/93	02/22/93
07	CS75	0060008	02/11/93	02/22/93
08	CS75DL	0060008DL	02/11/93	02/22/93
09	S103	0060009	02/11/93	02/22/93
10	S103DL	0060009DL	02/16/93	02/22/93
11	S111	0060014	02/14/93	02/23/93
12	S111DL	0060014DL	02/14/93	02/23/93
13	S112	0060018	02/16/93	02/25/93
14	S112DL	0060018DL	02/16/93	02/25/93
15	S113	0060013	02/13/93	02/23/93
16	S113DL	0060013DL	02/20/93	02/23/93
17	S114	0060017	02/16/93	02/24/93
18	S114DL	0060017DL	02/16/93	02/24/93
19	S115	0060012	02/13/93	02/23/93
20	S115DL	0060012DL	02/13/93	02/23/93
21				
22				
23				
24				
25				
26				

COMMENTS: _____

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLK51

Lab Name: IEA/CT Contract: 1250

Lab Code: IIEACT Case No.: 0060 SAS No.: SDG No.: Z0060

Matrix: (soil/water) SOIL Lab Sample ID: 0122-B01

Sample wt/vol: 30.0 (g/mL) G Lab File ID: A1209228.D

% Moisture: 0 decanted: (Y/N) N Date Received: / /

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 01/22/93

Concentrated Extract Volume: 5000(uL) Date Analyzed: 02/11/93

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
12674-11-2	Aroclor-1016	33	U
11104-28-2	Aroclor-1221	67	U
11141-16-5	Aroclor-1232	33	U
53469-21-9	Aroclor-1242	33	U
12672-29-6	Aroclor-1248	33	U
11097-69-1	Aroclor-1254	33	U
11096-82-5	Aroclor-1260	33	U

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PBLK53 0649

Lab Name: IEA/CT Contract:

Lab Code: IIEACT Case No.: 0060 SAS No.: SDG No.: Z0060

Lab Sample ID: 0122-B05 Lab File ID: A1209226.D

Matrix:(soil/water) WATER Extraction:(SepF,Cont/Sonc) SONC

Sulfur Cleanup: (Y/N) N Date Extracted: 01/22/93

Date Analyzed (1): 02/11/93 Date Analyzed (2): 02/24/93

Time Analyzed (1): 0624 Time Analyzed (2): 1229

Instrument ID (1): HP58901A Instrument ID (2): HP58905B

GC Column (1):RTX-35 ID: 0.53(mm) GC Column (2):DB-1701 ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD

	EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	FB012093	0060016	02/11/93	02/24/93
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS: _____

1D

PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

PBLK53

Lab Name: IEA/CT Contract: C 1261

Lab Code: IIEACT Case No.: 0060 SAS No.: SDG No.: Z0060

Matrix: (soil/water) WATER Lab Sample ID: 0122-B05

Sample wt/vol: 1000 (g/mL) ML Lab File ID: A1209226.D

% Moisture: _____ decanted: (Y/N)___ Date Received: / /

Extraction: (SepF/Cont/Sonc) SONC Date Extracted: 01/22/93

Concentrated Extract Volume: 10000(uL) Date Analyzed: 02/11/93

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	2.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U

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COVER PAGE - INORGANIC ANALYSES DATA PACKAGE 1376

Lab Name: IEA Contract:

Lab Code: IEA Case No.: 0060 SAS No.: SDG No.: Z0060

SOW No.: ILM02.0

EPA Sample No.	Lab Sample ID.
Z06001	S-99
Z06002	S-100
Z06002D	S-100D
Z060025	S-100S
Z06003	S-101
Z06004	S-102
Z06005	CS-43
Z06006	FIELDBLANK

Were ICP interelement corrections applied? Yes/No YES

Were ICP background corrections applied? Yes/No YES
If yes-were raw data generated before application of background corrections? Yes/No NO

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: J. C. Curran Name: J. Curran

Date: Feb 24, 1993 Title: Laboratory Manager

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1377
EPA SAMPLE NO.

INORGANIC ANALYSIS DATA SHEET

S-99

Lab Name: IEA Contract:

Lab Code: IEA Case No.: 0060 SAS No.: SDG No.: Z0060

Matrix (soil/water): SOIL Lab Sample ID: Z06001

Level (low/med): LOW Date Received: 01/19/93

% Solids: 87.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	9370			P
7440-36-0	Antimony	4.2	U		P
7440-38-2	Arsenic	16.8		NS	F
7440-39-3	Barium	50.6			P
7440-41-7	Beryllium	0.22	B		P
7440-43-9	Cadmium	0.40	U		P
7440-70-2	Calcium	920	B		P
7440-47-3	Chromium	18.8			P
7440-48-4	Cobalt	7.5	B		P
7440-50-8	Copper	90.7		N	P
7439-89-6	Iron	21300			P
7439-92-1	Lead	61.9		✗ JM 2/3/93	F
7439-95-4	Magnesium	2180			P
7439-96-5	Manganese	321			P
7439-97-6	Mercury	0.20			CV
7440-02-0	Nickel	13.8			P
7440-09-7	Potassium	762	B		P
7782-49-2	Selenium	0.40	U	N	F
7440-22-4	Silver	0.60	U		P
7440-23-5	Sodium	96.9	B		P
7440-28-0	Thallium	0.40	U		F
7440-62-2	Vanadium	30.6			P
7440-66-6	Zinc	56.8			P
	Cyanide				NR

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts: YES

Comments:
ROCKS

1378

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

S-100

Lab Name: IEA Contract:

Lab Code: IEA Case No.: 0060 SAS No.: SDG No.: Z0060

Matrix (soil/water): SOIL Lab Sample ID: Z06002

Level (low/med): LOW Date Received: 01/19/93

% Solids: 86.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	8330			P
7440-36-0	Antimony	4.3	U		P
7440-38-2	Arsenic	7.7		N	F
7440-39-3	Barium	84.8			P
7440-41-7	Beryllium	0.20	U		P
7440-43-9	Cadmium	1.6			P
7440-70-2	Calcium	5900			P
7440-47-3	Chromium	23.2			P
7440-48-4	Cobalt	6.7	B		P
7440-50-8	Copper	132		N	P
7439-89-6	Iron	21800			P
7439-92-1	Lead	251		~~X~~ m	F
7439-95-4	Magnesium	2510			P
7439-96-5	Manganese	318			P
7439-97-6	Mercury	0.49			CV
7440-02-0	Nickel	20.6			P
7440-09-7	Potassium	804	B		P
7782-49-2	Selenium	0.52	B	NW	F
7440-22-4	Silver	0.61	U		P
7440-23-5	Sodium	120	B		P
7440-28-0	Thallium	0.36	U		F
7440-62-2	Vanadium	38.0			P
7440-66-6	Zinc	275			P
	Cyanide				NR

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts: YES

Comments:
ROCKS

U.S. EPA - CLP

1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

S-101

Lab Name: IEA Contract:

Lab Code: IEA Case No.: 0060 SAS No.: SDG No.: Z0060

Matrix (soil/water): SOIL Lab Sample ID: Z06003

Level (low/med): LOW Date Received: 01/19/93

% Solids: 84.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	4050			P
7440-36-0	Antimony	4.3	U		P
7440-38-2	Arsenic	25.0		N	F
7440-39-3	Barium	154			P
7440-41-7	Beryllium	0.21	U		P
7440-43-9	Cadmium	9.2			P
7440-70-2	Calcium	8680			P
7440-47-3	Chromium	124			P
7440-48-4	Cobalt	12.7			P
7440-50-8	Copper	629		N	P
7439-89-6	Iron	91800			P
7439-92-1	Lead	1190		* DR 1/26/93	F
7439-95-4	Magnesium	2370			P
7439-96-5	Manganese	667			P
7439-97-6	Mercury	1.3			CV
7440-02-0	Nickel	168			P
7440-09-7	Potassium	928	B		P
7782-49-2	Selenium	0.78	B	N	F
7440-22-4	Silver	0.62	U		P
7440-23-5	Sodium	260	B		P
7440-28-0	Thallium	0.45	U		F
7440-62-2	Vanadium	41.8			P
7440-66-6	Zinc	1310			P
	Cyanide				NR

Color Before: BLACK Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts: YES

Comments:
ROCKS, ROOTS

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INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

S-102

Lab Name: IEA Contract:

Lab Code: IEA Case No.: 0060 SAS No.: SDG No.: Z0060

Matrix (soil/water): SOIL Lab Sample ID: Z06004

Level (low/med): LOW Date Received: 01/19/93

% Solids: 86.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	3020			P
7440-36-0	Antimony	10.7	B		P
7440-38-2	Arsenic	21.2		N	F
7440-39-3	Barium	74.5			P
7440-41-7	Beryllium	0.20	U		P
7440-43-9	Cadmium	1.4			P
7440-70-2	Calcium	1630			P
7440-47-3	Chromium	29.4			P
7440-48-4	Cobalt	6.5	B		P
7440-50-8	Copper	344		N	P
7439-89-6	Iron	41800			P
7439-92-1	Lead	393		*on 1/20/93	F
7439-95-4	Magnesium	1180			P
7439-96-5	Manganese	233			P
7439-97-6	Mercury	0.94			CV
7440-02-0	Nickel	26.1			P
7440-09-7	Potassium	616	B		P
7782-49-2	Selenium	1.4		N	F
7440-22-4	Silver	0.59	U		P
7440-23-5	Sodium	144	B		P
7440-28-0	Thallium	0.40	U		F
7440-62-2	Vanadium	41.7			P
7440-66-6	Zinc	134			P
	Cyanide				NR

Color Before: BLACK Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts: YES

Comments:
ROCKS, ROOTS

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1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

CS-43

Lab Name: IEA Contract:

Lab Code: IEA Case No.: 0060 SAS No.: SDG No.: Z0060

Matrix (soil/water): SOIL Lab Sample ID: Z06005

Level (low/med): LOW Date Received: 01/19/93

% Solids: 81.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum				NR
7440-36-0	Antimony				NR
7440-38-2	Arsenic				NR
7440-39-3	Barium				NR
7440-41-7	Beryllium				NR
7440-43-9	Cadmium				NR
7440-70-2	Calcium				NR
7440-47-3	Chromium				NR
7440-48-4	Cobalt				NR
7440-50-8	Copper				NR
7439-89-6	Iron				NR
7439-92-1	Lead				NR
7439-95-4	Magnesium				NR
7439-96-5	Manganese				NR
7439-97-6	Mercury	22.5			CV
7440-02-0	Nickel				NR
7440-09-7	Potassium				NR
7782-49-2	Selenium				NR
7440-22-4	Silver				NR
7440-23-5	Sodium				NR
7440-28-0	Thallium				NR
7440-62-2	Vanadium				NR
7440-66-6	Zinc				NR
	Cyanide				NR

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

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1

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

FIELDBLANK

Lab Name: IEA Contract:

Lab Code: IEA Case No.: 0060 SAS No.: SDG No.: Z0060

Matrix (soil/water): WATER Lab Sample ID: Z06006

Level (low/med): LOW Date Received: 01/19/93

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	22.0	U		P
7440-36-0	Antimony	21.0	U		P
7440-38-2	Arsenic	1.0	U		F
7440-39-3	Barium	6.0	U		P
7440-41-7	Beryllium	1.0	U		P
7440-43-9	Cadmium	2.0	U		P
7440-70-2	Calcium	11.0	U		P
7440-47-3	Chromium	3.0	U		P
7440-48-4	Cobalt	3.0	U		P
7440-50-8	Copper	3.0	U		P
7439-89-6	Iron	82.0	U		P
7439-92-1	Lead	1.0	U	W	F
7439-95-4	Magnesium	23.1	B		P
7439-96-5	Manganese	1.0	U		P
7439-97-6	Mercury	0.20	U		CV
7440-02-0	Nickel	21.0	U		P
7440-09-7	Potassium	626	U		P
7782-49-2	Selenium	2.0	U		F
7440-22-4	Silver	3.0	U		P
7440-23-5	Sodium	29.0	U		P
7440-28-0	Thallium	2.0	U		F
7440-62-2	Vanadium	6.0	U		P
7440-66-6	Zinc	4.0	U		P
	Cyanide				NR

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

3
BLANKS

Lab Name: IEA Contract:

Lab Code: IEA Case No.: 0060 SAS No.: SDG No.: Z0060

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum	22.0	U	22.9	B	22.0	U	22.0	U	22.000	U	P
Antimony	21.0	U	21.0	U	21.0	U	21.0	U	21.000	U	P
Arsenic	-1.0	B	-1.3	B	-1.0	B	-1.5	B	-1.200	B	P
Barium	6.0	U	6.0	U	6.0	U	6.0	U	6.000	U	P
Beryllium	1.0	U	1.0	U	1.0	U	1.0	U	1.000	U	P
Cadmium	2.0	U	2.0	U	2.0	U	2.0	U	2.000	U	P
Calcium	11.0	U	11.0	U	11.0	U	18.3	B	11.000	U	P
Chromium	3.0	U	3.0	U	3.2	B	3.0	U	3.000	U	P
Cobalt	3.0	U	3.0	U	3.0	U	3.0	U	3.000	U	P
Copper	3.0	U	3.0	U	7.0	B	3.0	U	-4.510	B	P
Iron	82.0	U	82.0	U	82.0	U	82.0	U	82.000	U	P
Lead	1.0	U	1.0	U	1.0	U	1.0	U	1.000	U	P
Magnesium	23.0	U	23.0	U	23.0	U	33.6	B	23.000	U	P
Manganese	1.0	U	1.0	U	1.0	U	1.0	U	1.000	U	P
Mercury	0.2	U	0.2	U	0.2	U	0.2	U	0.200	U	CV
Nickel	21.0	U	21.0	U	21.0	U	21.0	U	21.000	U	P
Potassium	626.0	U	626.0	U	626.0	U	626.0	U	626.000	U	P
Selenium	2.0	U	2.0	U	2.0	U			2.000	U	P
Silver	3.0	U	3.0	U	3.0	U	3.0	U	3.000	U	P
Sodium	29.0	U	29.0	U	29.0	U	29.0	U	29.000	U	P
Thallium	2.0	U	2.0	U	2.0	U			2.000	U	P
Vanadium	6.0	U	6.0	U	6.0	U	6.0	U	6.000	U	P
Zinc	4.0	U	4.0	U	4.0	U	4.0	U	4.000	U	P
Cyanide											NR

Lab Name: IEA Contract:

Lab Code: IEA Case No.: 0060 SAS No.: SDG No.: Z0060

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum	22.0	U	22.0	U	22.0	U	47.6	B	4.400	U	P
Antimony	21.0	U	21.0	U	21.0	U	-26.3	B	4.200	U	P
Arsenic	1.0	U	1.0	U	1.0	U	1.0	U	0.200	U	P
Barium	6.0	U	6.0	U	6.0	U	6.0	U	1.200	U	P
Beryllium	1.0	U	1.0	U	1.0	U	1.0	U	0.200	U	P
Cadmium	2.0	U	2.0	U	2.0	U	2.0	U	0.400	U	P
Calcium	11.0	U	11.0	U	11.0	U	11.0	U	2.200	U	P
Chromium	3.0	U	3.0	U	3.0	U	3.0	U	0.600	U	P
Cobalt	3.0	U	3.0	U	3.0	U	3.0	U	0.600	U	P
Copper	-3.9	B	-3.9	B	-7.2	B	-5.7	B	-0.614	B	P
Iron	82.0	U	82.0	U	82.0	U	82.0	U	16.400	U	P
Lead			1.0	U					0.200	U	P
Magnesium	23.0	U	33.6	B	23.0	U	30.1	B	4.600	U	P
Manganese	1.0	U	1.0	U	1.0	U	1.0	U	0.200	U	P
Mercury	0.2	U	0.2	U	0.2	U	0.2	U	0.100	U	CV
Nickel	21.0	U	21.0	U	21.0	U	21.0	U	4.200	U	P
Potassium	626.0	U	626.0	U	626.0	U	626.0	U	125.200	U	P
Selenium	2.0	U	2.0	U	2.0	U			0.400	U	P
Silver	3.0	U	3.0	U	3.0	U	3.0	U	0.600	U	P
Sodium	29.0	U	29.0	U	29.0	U	29.0	U	5.800	U	P
Thallium	2.0	U	2.0	U	2.0	U	2.0	U	0.400	U	P
Vanadium	6.0	U	6.0	U	6.0	U	6.0	U	1.200	U	P
Zinc	4.0	U	4.0	U	4.0	U	4.0	U	0.800	U	P
Cyanide											NR

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3
BLANKS

1396

Lab Name: IEA Contract:

Lab Code: IEA Case No.: 0060 SAS No.: SDG No.: Z0060

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											NR
Antimony											NR
Arsenic	1.0	U	1.0	U	1.0	U					F
Barium											NR
Beryllium											NR
Cadmium											NR
Calcium											NR
Chromium											NR
Cobalt											NR
Copper											NR
Iron											F
Lead	1.0	U	1.0	U	1.0	U	1.0	U			NR
Magnesium											NR
Manganese									0.100	U	CV
Mercury	0.2	U	0.2	U	0.2	U					NR
Nickel											NR
Potassium											F
Selenium	2.0	U	2.0	U	2.0	U					NR
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR
Cyanide											

Lab Name: IEA Contract:

Lab Code: IEA Case No.: 0060 SAS No.: SDG No.: Z0060

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											NR
Antimony											NR
Arsenic											NR
Barium											NR
Beryllium											NR
Cadmium											NR
Calcium											NR
Chromium											NR
Cobalt											NR
Copper											NR
Iron											NR
Lead	1.0	U	1.0	U	1.0	U	1.0	U			F
Magnesium											NR
Manganese											NR
Mercury											NR
Nickel											NR
Potassium											NR
Selenium											NR
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR
Cyanide											NR

3
BLANKS

Lab Name: IEA Contract:

Lab Code: IEA Case No.: 0060 SAS No.: SDG No.: Z0060

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											NR
Antimony											NR
Arsenic											NR
Barium											NR
Beryllium											NR
Cadmium											NR
Calcium											NR
Chromium											NR
Cobalt											NR
Copper											NR
Iron											NR
Lead	1.0	U	1.0	U	1.0	U					P
Magnesium											NR
Manganese											NR
Mercury											NR
Nickel											NR
Potassium											NR
Selenium											NR
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR
Cyanide											NR

U.S. EPA - CLP

1401

SA

SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

J-1001

~~Z0600225~~

Lab Name: IEA Contract:

Lab Code: IEA Case No.: 0060 SAS No.: SDG No.: Z0060

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 86.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony	75-125	79.0386		4.2870	U	98.58	80.2		P
Arsenic	75-125	13.1705		7.7430		7.89	68.8	N	F
Barium	75-125	455.6847		84.7986		394.33	94.1		P
Beryllium	75-125	10.0553		0.2041	U	9.86	102.0		P
Cadmium	75-125	9.3909		1.5841		9.86	79.2		P
Calcium									NR
Chromium	75-125	63.1493		23.1865		39.43	101.4		P
Cobalt	75-125	105.4466		6.6632	B	98.58	100.2		P
Copper	75-125	158.3829		131.5961		49.29	54.3	N	P
Iron									NR
Lead		321.3754		251.2450		3.94	1780.0		F
Magnesium									NR
Manganese	75-125	432.9361		318.0431		98.58	116.5		P
Mercury	75-125	1.0381		0.4902		0.55	99.6		CV
Nickel	75-125	120.4349		20.6102		98.58	101.3		P
Potassium									NR
Selenium	75-125	1.3999		0.5186	B	1.97	44.7	N	F
Silver	75-125	8.4524		0.6124	U	9.86	85.7		P
Sodium									NR
Thallium	75-125	10.0947		0.3576	U	9.86	102.4		F
Vanadium	75-125	135.4903		37.9725		98.58	98.9		P
Zinc	75-125	361.1609		275.0487		98.58	87.4		P
Cyanide									NR

Comments:

U.S. EPA - CLP

5B
POST DIGEST SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.
S-100A
~~Z06002A~~
JN 6/20/01

Lab Name: IEA Contract:

Lab Code: IEA Case No.: 0060 SAS No.: SDG No.: Z0060

Matrix (soil/water): SOIL Level (low/med): LOW

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									NR
Antimony									NR
Arsenic									NR
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium									NR
Cobalt									NR
Copper		2171.05		644.63		1300.0	117.4		P
Iron									NR
Lead									NR
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Cyanide									NR

Comments:

U.S. EPA - CLP

6
DUPLICATES

EPA SAMPLE NO.

S-100 D
~~Z06002D~~
ow 2/23/93

Lab Name: IEA   Contract:

Lab Code: IEA   Case No.: 0060   SAS No.:   SDG No.: Z0060

Matrix (soil/water): SOIL   Level (low/med): LOW

% Solids for Sample: 86.7   % Solids for Duplicate: 87.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		8326.7008		7535.9089		10.0		P
Antimony		4.2870	U	4.0035	U			P
Arsenic	1.8	7.7430		6.9828		10.3		F
Barium	40.8	84.7986		94.9775		11.3		P
Beryllium		0.2041	U	0.1906	U			P
Cadmium	1.0	1.5841		1.6205		2.3		P
Calcium		5901.9751		5775.8434		2.2		P
Chromium		23.1865		24.1948		4.3		P
Cobalt		6.6632	B	6.9719	B	4.5		P
Copper		131.5961		130.2201		1.1		P
Iron		21809.5980		23000.0870		5.3		P
Lead		251.2450		229.6414 ~~333.3815~~		~~28.1~~ 9.0	~~*~~	F
Magnesium	1020.7	2510.9879		2488.9893		0.9		P
Manganese		318.0431		384.5025		18.9		P
Mercury		0.4902		0.5369		9.1		CV
Nickel	8.2	20.6102		19.4973		5.5		P
Potassium		803.9052	B	772.9437	B	3.9		P
Selenium		0.5186	B	0.4156	U	200.0		F
Silver		0.6124	U	0.5719	U			P
Sodium		119.5190	B	100.9180	B	16.9		P
Thallium		0.3576	U	0.4156	U			F
Vanadium	10.2	37.9725		36.5657		3.8		P
Zinc		275.0487		298.7656		8.3		P
Cyanide								NR

bnr 2/23/93