

Case No:	43102	Contract:	BPW11031	SDG No:	E3P89	Lab Code:	KAP
Sample Number:	E3PA0	Method:	Pest	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:	SS-11	pH:	5.8	Sample Date:	11/06/2012	Sample Time:	12:51:00
% Moisture :	12.00			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
alpha-BHC	1.9	UG/KG	1.0	U	UJ	Yes	
beta-BHC	1.9	UG/KG	1.0	U	UJ	Yes	
delta-BHC	1.9	UG/KG	1.0	U	UJ	Yes	
gamma-BHC (Lindane)	1.9	UG/KG	1.0	U	UJ	Yes	
Heptachlor	1.9	UG/KG	1.0	U	UJ	Yes	
Aldrin	1.9	UG/KG	1.0	U	UJ	Yes	
Heptachlor epoxide	1.9	UG/KG	1.0	U	UJ	Yes	
Endosulfan I	1.9	UG/KG	1.0	U	UJ	Yes	
Dieldrin	3.7	UG/KG	1.0	U	UJ	Yes	
4,4'-DDE	3.7	UG/KG	1.0	U	UJ	Yes	
Endrin	3.7	UG/KG	1.0	U	UJ	Yes	
Endosulfan II	3.7	UG/KG	1.0	U	UJ	Yes	
4,4'-DDD	3.7	UG/KG	1.0	U	UJ	Yes	
Endosulfan sulfate	3.7	UG/KG	1.0	U	UJ	Yes	
4,4'-DDT	3.7	UG/KG	1.0	U	UJ	Yes	
Methoxychlor	19	UG/KG	1.0	U	UJ	Yes	
Endrin ketone	3.7	UG/KG	1.0	U	UJ	Yes	
Endrin aldehyde	3.7	UG/KG	1.0	U	UJ	Yes	
alpha-Chlordane	1.9	UG/KG	1.0	U	UJ	Yes	
gamma- Chlordane	1.9	UG/KG	1.0	U	UJ	Yes	
Toxaphene	190	UG/KG	1.0	U	UJ	Yes	

Case No:	43102	Contract:	EPW11031	SDG No:	E3P89	Lab Code:	KAP
Sample Number:	E3PA1	Method:	Pest	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:	SS-12	pH:	6.9	Sample Date:	11/06/2012	Sample Time:	10:30:00
% Moisture :	13.00			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
alpha-BHC	1.9	UG/KG	1.0	U	U	Yes	
beta-BHC	1.9	UG/KG	1.0	U	U	Yes	
delta-BHC	1.9	UG/KG	1.0	U	U	Yes	
gamma-BHC (Lindane)	1.9	UG/KG	1.0	U	U	Yes	
Heptachlor	1.9	UG/KG	1.0	U	U	Yes	
Aldrin	1.9	UG/KG	1.0	U	U	Yes	
Heptachlor epoxide	1.9	UG/KG	1.0	U	U	Yes	
Endosulfan I	1.9	UG/KG	1.0	U	U	Yes	
Dieldrin	3.8	UG/KG	1.0	U	U	Yes	
4,4'-DDE	3.8	UG/KG	1.0	U	U	Yes	
Endrin	3.8	UG/KG	1.0	U	U	Yes	
Endosulfan II	3.8	UG/KG	1.0	U	U	Yes	
4,4'-DDD	3.8	UG/KG	1.0	U	U	Yes	
Endosulfan sulfate	3.8	UG/KG	1.0	U	U	Yes	
4,4'-DDT	3.8	UG/KG	1.0	U	U	Yes	
Methoxychlor	19	UG/KG	1.0	U	U	Yes	
Endrin ketone	3.8	UG/KG	1.0	U	U	Yes	
Endrin aldehyde	3.8	UG/KG	1.0	U	U	Yes	
alpha-Chlordane	1.9	UG/KG	1.0	U	U	Yes	
gamma- Chlordane	1.9	UG/KG	1.0	U	U	Yes	
Toxaphene	190	UG/KG	1.0	U	U	Yes	

Case No:	43102	Contract:	EPW11031	SDG No:	E3P89	Lab Code:	KAP
Sample Number:	E3PA1	Method:	BNA	Matrix:	SOIL	MA Number:	DEFAULT
Sample Location:	SS-12	pH:	6.9	Sample Date:	11/06/2012	Sample Time:	10:30:00
% Moisture :	13			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	190	UG/KG	1.0	U	U	Yes	
Phenol	190	UG/KG	1.0	U	U	Yes	
Bis(2-chloroethyl)ether	190	UG/KG	1.0	U	U	Yes	
2-Chlorophenol	190	UG/KG	1.0	U	U	Yes	
2-Methylphenol	190	UG/KG	1.0	U	U	Yes	
2,2'-Oxybis(1-chloropropane)	190	UG/KG	1.0	U	U	Yes	
Acetophenone	190	UG/KG	1.0	U	U	Yes	
4-Methylphenol	190	UG/KG	1.0	U	U	Yes	
N-Nitroso-di-n-propylamine	190	UG/KG	1.0	U	U	Yes	
Hexachloroethane	190	UG/KG	1.0	U	U	Yes	
Nitrobenzene	190	UG/KG	1.0	U	U	Yes	
Isophorone	190	UG/KG	1.0	U	U	Yes	
2-Nitrophenol	190	UG/KG	1.0	U	U	Yes	
2,4-dimethylphenol	190	UG/KG	1.0	U	U	Yes	
Bis(2-chloroethoxy)methane	190	UG/KG	1.0	U	U	Yes	
2,4-Dichlorophenol	190	UG/KG	1.0	U	U	Yes	
Naphthalene	190	UG/KG	1.0	U	U	Yes	
4-Chloroaniline	190	UG/KG	1.0	U	U	Yes	
Hexachlorobutadiene	190	UG/KG	1.0	U	U	Yes	
Caprolactam	190	UG/KG	1.0	U	U	Yes	
4-Chloro-3-methylphenol	190	UG/KG	1.0	U	U	Yes	
2-Methylnaphthalene	190	UG/KG	1.0	U	U	Yes	
Hexachlorocyclopentadiene	190	UG/KG	1.0	U	U	Yes	
2,4,6-Trichlorophenol	190	UG/KG	1.0	U	U	Yes	
2,4,5-Trichlorophenol	190	UG/KG	1.0	U	U	Yes	
1,1'-Biphenyl	190	UG/KG	1.0	U	U	Yes	
2-Chloronaphthalene	190	UG/KG	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	380	UG/KG	1.0	U	U	Yes	
Dimethylphthalate	190	UG/KG	1.0	U	U	Yes	
2,6-Dinitrotoluene	190	UG/KG	1.0	U	U	Yes	
Acenaphthylene	190	UG/KG	1.0	U	U	Yes	
3-Nitroaniline	380	UG/KG	1.0	U	U	Yes	
Acenaphthene	190	UG/KG	1.0	U	U	Yes	
2,4-Dinitrophenol	380	UG/KG	1.0	U	U	Yes	
4-Nitrophenol	380	UG/KG	1.0	U	U	Yes	
Dibenzofuran	190	UG/KG	1.0	U	U	Yes	
2,4-Dinitrotoluene	190	UG/KG	1.0	U	U	Yes	
Diethylphthalate	190	UG/KG	1.0	U	U	Yes	
Fluorene	190	UG/KG	1.0	U	U	Yes	
4-Chlorophenylphenylether	190	UG/KG	1.0	U	U	Yes	
4-Nitroaniline	380	UG/KG	1.0	U	U	Yes	
4,6-Dinitro-2-methylphenol	380	UG/KG	1.0	U	U	Yes	
N-Nitrosodiphenylamine	190	UG/KG	1.0	U	U	Yes	
1,2,4,5-Tetrachlorobenzene	190	UG/KG	1.0	U	U	Yes	
4-Bromophenylphenylether	190	UG/KG	1.0	U	U	Yes	
Hexachlorobenzene	190	UG/KG	1.0	U	U	Yes	
Atrazine	190	UG/KG	1.0	U	U	Yes	
Pentachlorophenol	380	UG/KG	1.0	U	U	Yes	
Phenanthrene	190	UG/KG	1.0	U	U	Yes	
Anthracene	190	UG/KG	1.0	U	U	Yes	
Carbazole	190	UG/KG	1.0	U	U	Yes	
Di-n-butylphthalate	190	UG/KG	1.0	U	U	Yes	
Fluoranthene	130	UG/KG	1.0	J	J	Yes	
Pyrene	120	UG/KG	1.0	J	J	Yes	
Butylbenzylphthalate	190	UG/KG	1.0	U	U	Yes	
3,3'-Dichlorobenzidine	190	UG/KG	1.0	U	U	Yes	
Benzo(a)anthracene	190	UG/KG	1.0	U	U	Yes	
Chrysene	90	UG/KG	1.0	J	J	Yes	
Bis(2-ethylhexyl)	190	UG/KG	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	190	UG/KG	1.0	U	U	Yes	
Di-n-octylphthalate	190	UG/KG	1.0	U	U	Yes	
Benzo(b)fluoranthene	85	UG/KG	1.0	J	J	Yes	
Benzo(k)fluoranthene	84	UG/KG	1.0	J	J	Yes	
Benzo(a)pyrene	190	UG/KG	1.0	U	U	Yes	
Indeno(1,2,3-cd)pyrene	190	UG/KG	1.0	U	U	Yes	
Dibenzo(a,h)anthracene	190	UG/KG	1.0	U	U	Yes	
Benzo(g,h,i)perylene	190	UG/KG	1.0	U	U	Yes	
2,3,4,6-Tetrachlorophenol	190	UG/KG	1.0	U	U	Yes	

Case No:	43102	Contract:	EPWI1031	SDG No:	E3P89	Lab Code:	KAP
Sample Number:	E3PA1	Method:	Aroclor	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:	SS-12	pH:	6.9	Sample Date:	11/06/2012	Sample Time:	10:30:00
% Moisture :	13			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	38	UG/KG	1.0	U	U	Yes	
Aroclor-1221	38	UG/KG	1.0	U	U	Yes	
Aroclor-1232	38	UG/KG	1.0	U	U	Yes	
Aroclor-1242	38	UG/KG	1.0	U	U	Yes	
Aroclor-1248	38	UG/KG	1.0	U	U	Yes	
Aroclor-1254	38	UG/KG	1.0	U	U	Yes	
Aroclor-1260	38	UG/KG	1.0	U	U	Yes	
Aroclor-1262	38	UG/KG	1.0	U	U	Yes	
Aroclor-1268	38	UG/KG	1.0	U	U	Yes	

Case No:	43102	Contract:	BPW11031	SDG No:	E3P89	Lab Code:	KAP
Sample Number:	E3PA2	Method:	Pest	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:	SS-12D	pH:	7.0	Sample Date:	11/06/2012	Sample Time:	10:30:00
% Moisture :	13.00			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
alpha-BHC	1.9	UG/KG	1.0	U	UJ	Yes	
beta-BHC	1.9	UG/KG	1.0	U	UJ	Yes	
delta-BHC	1.9	UG/KG	1.0	U	UJ	Yes	
gamma-BHC (Lindane)	1.9	UG/KG	1.0	U	UJ	Yes	
Heptachlor	1.9	UG/KG	1.0	U	UJ	Yes	
Aldrin	1.9	UG/KG	1.0	U	UJ	Yes	
Heptachlor epoxide	1.9	UG/KG	1.0	U	UJ	Yes	
Endosulfan I	1.9	UG/KG	1.0	U	UJ	Yes	
Dieldrin	3.8	UG/KG	1.0	U	UJ	Yes	
4,4'-DDE	3.8	UG/KG	1.0	U	UJ	Yes	
Endrin	3.8	UG/KG	1.0	U	UJ	Yes	
Endosulfan II	3.8	UG/KG	1.0	U	UJ	Yes	
4,4'-DDD	3.8	UG/KG	1.0	U	UJ	Yes	
Endosulfan sulfate	3.8	UG/KG	1.0	U	UJ	Yes	
4,4'-DDT	3.8	UG/KG	1.0	U	UJ	Yes	
Methoxychlor	19	UG/KG	1.0	U	UJ	Yes	
Endrin ketone	3.8	UG/KG	1.0	U	UJ	Yes	
Endrin aldehyde	3.8	UG/KG	1.0	U	UJ	Yes	
alpha-Chlordane	1.9	UG/KG	1.0	U	UJ	Yes	
gamma- Chlordane	1.9	UG/KG	1.0	U	UJ	Yes	
Toxaphene	190	UG/KG	1.0	U	UJ	Yes	

Case No:	43102	Contract:	EPW11031	SDG No:	E3P89	Lab Code:	KAP
Sample Number:	E3PA2	Method:	BNA	Matrix:	SOIL	MA Number:	DEFAULT
Sample Location:	SS-12D	pH:	7.0	Sample Date:	11/06/2012	Sample Time:	10:30:00
% Moisture :	13			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	190	UG/KG	1.0	U	U	Yes	
Phenol	190	UG/KG	1.0	U	U	Yes	
Bis(2-chloroethyl)ether	190	UG/KG	1.0	U	U	Yes	
2-Chlorophenol	190	UG/KG	1.0	U	U	Yes	
2-Methylphenol	190	UG/KG	1.0	U	U	Yes	
2,2'-Oxybis(1-chloropropane)	190	UG/KG	1.0	U	U	Yes	
Acetophenone	190	UG/KG	1.0	U	U	Yes	
4-Methylphenol	190	UG/KG	1.0	U	U	Yes	
N-Nitroso-di-n-propylamine	190	UG/KG	1.0	U	U	Yes	
Hexachloroethane	190	UG/KG	1.0	U	U	Yes	
Nitrobenzene	190	UG/KG	1.0	U	U	Yes	
Isophorone	190	UG/KG	1.0	U	U	Yes	
2-Nitrophenol	190	UG/KG	1.0	U	U	Yes	
2,4-Dimethylphenol	190	UG/KG	1.0	U	U	Yes	
Bis(2-chloroethoxy)methane	190	UG/KG	1.0	U	U	Yes	
2,4-Dichlorophenol	190	UG/KG	1.0	U	U	Yes	
Naphthalene	190	UG/KG	1.0	U	U	Yes	
4-Chloroaniline	190	UG/KG	1.0	U	U	Yes	
Hexachlorobutadiene	190	UG/KG	1.0	U	U	Yes	
Caprolactam	190	UG/KG	1.0	U	U	Yes	
4-Chloro-3-methylphenol	190	UG/KG	1.0	U	U	Yes	
2-Methylnaphthalene	190	UG/KG	1.0	U	U	Yes	
Hexachlorocyclopentadiene	190	UG/KG	1.0	U	U	Yes	
2,4,6-Trichlorophenol	190	UG/KG	1.0	U	U	Yes	
2,4,5-Trichlorophenol	190	UG/KG	1.0	U	U	Yes	
1,1'-Biphenyl	190	UG/KG	1.0	U	U	Yes	
2-Chloronaphthalene	190	UG/KG	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	370	UG/KG	1.0	U	U	Yes	
Dimethylphthalate	190	UG/KG	1.0	U	U	Yes	
2,6-Dinitrotoluene	190	UG/KG	1.0	U	U	Yes	
Acenaphthylene	190	UG/KG	1.0	U	U	Yes	
3-Nitroaniline	370	UG/KG	1.0	U	U	Yes	
Acenaphthene	190	UG/KG	1.0	U	U	Yes	
2,4-Dinitrophenol	370	UG/KG	1.0	U	U	Yes	
4-Nitrophenol	370	UG/KG	1.0	U	U	Yes	
Dibenzofuran	190	UG/KG	1.0	U	U	Yes	
2,4-Dinitrotoluene	190	UG/KG	1.0	U	U	Yes	
Diethylphthalate	190	UG/KG	1.0	U	U	Yes	
Fluorene	190	UG/KG	1.0	U	U	Yes	
4-Chlorophenylphenylether	190	UG/KG	1.0	U	U	Yes	
4-Nitroaniline	370	UG/KG	1.0	U	U	Yes	
4,6-Dinitro-2-methylphenol	370	UG/KG	1.0	U	U	Yes	
N-Nitrosodiphenylamine	190	UG/KG	1.0	U	U	Yes	
1,2,4,5-tetrachlorobenzene	190	UG/KG	1.0	U	U	Yes	
4-Bromophenylphenylether	190	UG/KG	1.0	U	U	Yes	
Hexachlorobenzene	190	UG/KG	1.0	U	U	Yes	
Atrazine	190	UG/KG	1.0	U	U	Yes	
Pentachlorophenol	370	UG/KG	1.0	U	U	Yes	
Phenanthrene	190	UG/KG	1.0	U	U	Yes	
Anthracene	190	UG/KG	1.0	U	U	Yes	
Carbazole	190	UG/KG	1.0	U	U	Yes	
Di-n-butylphthalate	190	UG/KG	1.0	U	U	Yes	
Fluoranthene	140	UG/KG	1.0	J	J	Yes	
Pyrene	120	UG/KG	1.0	J	J	Yes	
Butylbenzylphthalate	190	UG/KG	1.0	U	U	Yes	
3,3'-Dichlorobenzidine	190	UG/KG	1.0	U	U	Yes	
Benzo(a)anthracene	190	UG/KG	1.0	U	U	Yes	
Chrysene	92	UG/KG	1.0	J	J	Yes	
Bis(2-ethylhexyl)	190	UG/KG	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	190	UG/KG	1.0	U	U	Yes	
Di-n-octylphthalate	190	UG/KG	1.0	U	U	Yes	
Benzo(b)fluorant hene	190	UG/KG	1.0	U	U	Yes	
Benzo(k)fluorant hene	76	UG/KG	1.0	J	J	Yes	
Benzo(a)pyrene	190	UG/KG	1.0	U	U	Yes	
Indeno(1,2,3-cd)pyrene	190	UG/KG	1.0	U	U	Yes	
Dibenzo(a,h)anthracene	190	UG/KG	1.0	U	U	Yes	
Benzo(g,h,i)perylene	190	UG/KG	1.0	U	U	Yes	
2,3,4,6-Tetrachlorophenol	190	UG/KG	1.0	U	U	Yes	
Dibenzo[def,mn]chrysene			1.0	NJ		Yes	

Case No:	43102	Contract:	EPW11031	SDG No:	B3P89	Lab Code:	KAP
Sample Number:	E3PA2	Method:	Aroclor	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:	SS-12D	pH:	7.0	Sample Date:	11/06/2012	Sample Time:	10:30:00
% Moisture :	13			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	38	UG/KG	1.0	U	UJ	Yes	
Aroclor-1221	38	UG/KG	1.0	U	UJ	Yes	
Aroclor-1232	38	UG/KG	1.0	U	UJ	Yes	
Aroclor-1242	38	UG/KG	1.0	U	UJ	Yes	
Aroclor-1248	38	UG/KG	1.0	U	UJ	Yes	
Aroclor-1254	38	UG/KG	1.0	U	UJ	Yes	
Aroclor-1260	38	UG/KG	1.0	U	UJ	Yes	
Aroclor-1262	38	UG/KG	1.0	U	UJ	Yes	
Aroclor-1268	38	UG/KG	1.0	U	UJ	Yes	

Case No:	43102	Contract:	EPW11031	SDG No:	E3P89	Lab Code:	KAP
Sample Number:	E3PA3	Method:	BNA	Matrix:	SOIL	MA Number:	DBFAULT
Sample Location:	SS-13	pH:	7.4	Sample Date:	11/06/2012	Sample Time:	17:10:00
% Moisture :	13			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	190	UG/KG	1.0	U	U	Yes	
Phenol	190	UG/KG	1.0	U	U	Yes	
Bis(2-chloroethyl)ether	190	UG/KG	1.0	U	U	Yes	
2-Chlorophenol	190	UG/KG	1.0	U	U	Yes	
2-Methylphenol	190	UG/KG	1.0	U	U	Yes	
2,2'-Oxybis(1-chloropropane)	190	UG/KG	1.0	U	U	Yes	
Acetophenone	190	UG/KG	1.0	U	U	Yes	
4-Methylphenol	190	UG/KG	1.0	U	U	Yes	
N-Nitroso-di-n-propylamine	190	UG/KG	1.0	U	U	Yes	
Hexachloroethane	190	UG/KG	1.0	U	U	Yes	
Nitrobenzene	190	UG/KG	1.0	U	U	Yes	
Isophorone	190	UG/KG	1.0	U	U	Yes	
2-Nitrophenol	190	UG/KG	1.0	U	U	Yes	
2,4-Dimethylphenol	190	UG/KG	1.0	U	U	Yes	
Bis(2-chloroethoxy)methane	190	UG/KG	1.0	U	U	Yes	
2,4-Dichlorophenol	190	UG/KG	1.0	U	U	Yes	
Naphthalene	190	UG/KG	1.0	U	U	Yes	
4-Chloroaniline	190	UG/KG	1.0	U	U	Yes	
Hexachlorobutadiene	190	UG/KG	1.0	U	U	Yes	
Caprolactam	190	UG/KG	1.0	U	U	Yes	
4-Chloro-3-methylphenol	190	UG/KG	1.0	U	U	Yes	
2-Methylnaphthalene	190	UG/KG	1.0	U	U	Yes	
Hexachlorocyclopentadiene	190	UG/KG	1.0	U	U	Yes	
2,4,6-Trichlorophenol	190	UG/KG	1.0	U	U	Yes	
2,4,5-Trichlorophenol	190	UG/KG	1.0	U	U	Yes	
1,1'-Biphenyl	190	UG/KG	1.0	U	U	Yes	
2-Chloronaphthalene	190	UG/KG	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	380	UG/KG	1.0	U	U	Yes	
Dimethylphthalate	190	UG/KG	1.0	U	U	Yes	
2,6-Dinitrotoluene	190	UG/KG	1.0	U	U	Yes	
Acenaphthylene	170	UG/KG	1.0	J	J	Yes	
3-Nitroaniline	380	UG/KG	1.0	U	U	Yes	
Acenaphthene	190	UG/KG	1.0	U	U	Yes	
2,4-Dinitrophenol	380	UG/KG	1.0	U	U	Yes	
4-Nitrophenol	380	UG/KG	1.0	U	U	Yes	
Dibenzofuran	190	UG/KG	1.0	U	U	Yes	
2,4-Dinitrotoluene	190	UG/KG	1.0	U	U	Yes	
Diethylphthalate	190	UG/KG	1.0	U	U	Yes	
Fluorene	190	UG/KG	1.0	U	U	Yes	
4-Chlorophenylphenylether	190	UG/KG	1.0	U	U	Yes	
4-Nitroaniline	380	UG/KG	1.0	U	U	Yes	
4,6-Dinitro-2-methylphenol	380	UG/KG	1.0	U	U	Yes	
N-Nitrosodiphenylamine	190	UG/KG	1.0	U	U	Yes	
1,2,4,5-Tetrachlorobenzene	190	UG/KG	1.0	U	U	Yes	
4-Bromophenylphenylether	190	UG/KG	1.0	U	U	Yes	
Hexachlorobenzene	190	UG/KG	1.0	U	U	Yes	
Atrazine	190	UG/KG	1.0	U	U	Yes	
Pentachlorophenol	380	UG/KG	1.0	U	U	Yes	
Phenanthrene	310	UG/KG	1.0			Yes	
Anthracene	160	UG/KG	1.0	J	J	Yes	
Carbazole	150	UG/KG	1.0	J	J	Yes	
Di-n-butylphthalate	190	UG/KG	1.0	U	U	Yes	
Fluoranthene	1900	UG/KG	1.0			Yes	
Pyrene	1400	UG/KG	1.0			Yes	
Butylbenzylphthalate	190	UG/KG	1.0	U	U	Yes	
3,3'-Dichlorobenzidine	190	UG/KG	1.0	U	U	Yes	
Benzo(a)anthracene	1000	UG/KG	1.0			Yes	
Chrysene	1100	UG/KG	1.0			Yes	
Bis(2-ethylhexyl)	190	UG/KG	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	190	UG/KG	1.0	U	U	Yes	
Di-n-octylphthalate	190	UG/KG	1.0	U	U	Yes	
Benzo(b)fluorant hene	610	UG/KG	1.0			Yes	
Benzo(k)fluorant hene	790	UG/KG	1.0			Yes	
Benzo(a)pyrene	800	UG/KG	1.0			Yes	
Indeno(1,2,3-cd)pyrene	650	UG/KG	1.0			Yes	
Dibenzo(a,h)anthracene	260	UG/KG	1.0			Yes	
Benzo(g,h,i)perylene	650	UG/KG	1.0			Yes	
2,3,4,6-Tetrachlorophenol	190	UG/KG	1.0	U	U	Yes	
7H-Benz[de]anthrac			1.0	NJ		Yes	

Case No:	43102	Contract:	EPW11031	SDG No:	E3P89	Lab Code:	KAP
Sample Number:	E3PA3	Method:	Pest	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:	SS-13	pH:	7.4	Sample Date:	11/06/2012	Sample Time:	17:10:00
% Moisture :	13.00			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
alpha-BHC	1.9	UG/KG	1.0	U	U	Yes	
beta-BHC	1.9	UG/KG	1.0	U	U	Yes	
delta-BHC	1.9	UG/KG	1.0	U	U	Yes	
gamma-BHC (Lindane)	1.9	UG/KG	1.0	U	U	Yes	
Heptachlor	1.9	UG/KG	1.0	U	U	Yes	
Aldrin	1.9	UG/KG	1.0	U	U	Yes	
Heptachlor epoxide	1.9	UG/KG	1.0	U	U	Yes	
Endosulfan I	1.9	UG/KG	1.0	U	U	Yes	
Dieldrin	3.8	UG/KG	1.0	U	U	Yes	
4,4'-DDE	3.8	UG/KG	1.0	U	U	Yes	
Endrin	3.8	UG/KG	1.0	U	U	Yes	
Endosulfan II	3.8	UG/KG	1.0	U	U	Yes	
4,4'-DDD	3.8	UG/KG	1.0	U	U	Yes	
Endosulfan sulfate	3.8	UG/KG	1.0	U	U	Yes	
4,4'-DDT	6.2	UG/KG	1.0	P	J	Yes	
Methoxychlor	19	UG/KG	1.0	U	U	Yes	
Endrin ketone	3.8	UG/KG	1.0	U	U	Yes	
Endrin aldehyde	3.8	UG/KG	1.0	U	U	Yes	
alpha-Chlordane	1.9	UG/KG	1.0	U	U	Yes	
gamma- Chlordane	1.9	UG/KG	1.0	U	U	Yes	
Toxaphene	190	UG/KG	1.0	U	U	Yes	

Case No: 43102	Contract: EPW11031	SDG No: E3P89	Lab Code: KAP
Sample Number: E3PA3	Method: Aroclor	Matrix: Soil	MA Number: DEFAULT
Sample Location: SS-13	pH: 7.4	Sample Date: 11/06/2012	Sample Time: 17:10:00
% Moisture: 13	% Solids :		

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	38	UG/KG	1.0	U	U	Yes	
Aroclor-1221	38	UG/KG	1.0	U	U	Yes	
Aroclor-1232	38	UG/KG	1.0	U	U	Yes	
Aroclor-1242	38	UG/KG	1.0	U	U	Yes	
Aroclor-1248	38	UG/KG	1.0	U	U	Yes	
Aroclor-1254	38	UG/KG	1.0	U	U	Yes	
Aroclor-1260	38	UG/KG	1.0	U	U	Yes	
Aroclor-1262	38	UG/KG	1.0	U	U	Yes	
Aroclor-1268	38	UG/KG	1.0	U	U	Yes	

Case No:	43102	Contract:	EPW11031	SDG No:	E3P89	Lab Code:	KAP
Sample Number:	E3PA4	Method:	Aroclor	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:	SS-14	pH:	5.5	Sample Date:	11/06/2012	Sample Time:	15:56:00
% Moisture :	34			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	50	UG/KG	1.0	U	U	Yes	
Aroclor-1221	50	UG/KG	1.0	U	U	Yes	
Aroclor-1232	50	UG/KG	1.0	U	U	Yes	
Aroclor-1242	50	UG/KG	1.0	U	U	Yes	
Aroclor-1248	50	UG/KG	1.0	U	U	Yes	
Aroclor-1254	50	UG/KG	1.0	U	U	Yes	
Aroclor-1260	50	UG/KG	1.0	U	U	Yes	
Aroclor-1262	50	UG/KG	1.0	U	U	Yes	
Aroclor-1268	50	UG/KG	1.0	U	U	Yes	

Case No:	43102	Contract:	EPW11031	SDG No:	E3P89	Lab Code:	KAP
Sample Number:	E3PA4	Method:	BNA	Matrix:	SOIL	MA Number:	DEFAULT
Sample Location:	SS-14	pH:	5.5	Sample Date:	11/06/2012	Sample Time:	15:56:00
% Moisture :	34			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	260	UG/KG	1.0	U	U	Yes	
Phenol	260	UG/KG	1.0	U	U	Yes	
Bis(2-chloroethyl)ether	260	UG/KG	1.0	U	U	Yes	
2-Chlorophenol	260	UG/KG	1.0	U	U	Yes	
2-Methylphenol	260	UG/KG	1.0	U	U	Yes	
2,2'-Oxybis(1-chloropropane)	260	UG/KG	1.0	U	U	Yes	
Acetophenone	260	UG/KG	1.0	U	U	Yes	
4-Methylphenol	260	UG/KG	1.0	U	U	Yes	
N-Nitroso-di-n-propylamine	260	UG/KG	1.0	U	U	Yes	
Hexachloroethane	260	UG/KG	1.0	U	U	Yes	
Nitrobenzene	260	UG/KG	1.0	U	U	Yes	
Isophorone	260	UG/KG	1.0	U	U	Yes	
2-Nitrophenol	260	UG/KG	1.0	U	U	Yes	
2,4-Dimethylphenol	260	UG/KG	1.0	U	U	Yes	
Bis(2-chloroethoxy)methane	260	UG/KG	1.0	U	U	Yes	
2,4-Dichlorophenol	260	UG/KG	1.0	U	U	Yes	
Naphthalene	260	UG/KG	1.0	U	U	Yes	
4-Chloroaniline	260	UG/KG	1.0	U	U	Yes	
Hexachlorobutadiene	260	UG/KG	1.0	U	U	Yes	
Caprolactam	260	UG/KG	1.0	U	U	Yes	
4-Chloro-3-methylphenol	260	UG/KG	1.0	U	U	Yes	
2-Methylnaphthalene	260	UG/KG	1.0	U	U	Yes	
Hexachlorocyclopentadiene	260	UG/KG	1.0	U	U	Yes	
2,4,6-Trichlorophenol	260	UG/KG	1.0	U	U	Yes	
2,4,5-Trichlorophenol	260	UG/KG	1.0	U	U	Yes	
1,1'-Biphenyl	260	UG/KG	1.0	U	U	Yes	
2-Chloronaphthalene	260	UG/KG	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	500	UG/KG	1.0	U	U	Yes	
Dimethylphthalate	260	UG/KG	1.0	U	U	Yes	
2,6-Dinitrotoluene	260	UG/KG	1.0	U	U	Yes	
Acenaphthylene	340	UG/KG	1.0			Yes	
3-Nitroaniline	500	UG/KG	1.0	U	U	Yes	
Acenaphthene	260	UG/KG	1.0	U	U	Yes	
2,4-Dinitrophenol	500	UG/KG	1.0	U	U	Yes	
4-Nitrophenol	500	UG/KG	1.0	U	U	Yes	
Dibenzofuran	260	UG/KG	1.0	U	U	Yes	
2,4-Dinitrotoluene	260	UG/KG	1.0	U	U	Yes	
Diethylphthalate	260	UG/KG	1.0	U	U	Yes	
Fluorene	120	UG/KG	1.0	J	J	Yes	
4-Chlorophenylphenylether	260	UG/KG	1.0	U	U	Yes	
4-Nitroaniline	500	UG/KG	1.0	U	U	Yes	
4,6-Dinitro-2-methylphenol	500	UG/KG	1.0	U	U	Yes	
N-Nitrosodiphenylamine	260	UG/KG	1.0	U	U	Yes	
1,2,4,5-tetrachlorobenzene	260	UG/KG	1.0	U	U	Yes	
4-Bromophenylphenylether	260	UG/KG	1.0	U	U	Yes	
Hexachlorobenzene	260	UG/KG	1.0	U	U	Yes	
Atrazine	260	UG/KG	1.0	U	U	Yes	
Pentachlorophenol	500	UG/KG	1.0	U	U	Yes	
Phenanthrene	1200	UG/KG	1.0			Yes	
Anthracene	410	UG/KG	1.0			Yes	
Carbazole	220	UG/KG	1.0	J	J	Yes	
Di-n-butylphthalate	260	UG/KG	1.0	U	U	Yes	
Fluoranthene	2900	UG/KG	1.0			Yes	
Pyrene	2300	UG/KG	1.0			Yes	
Butylbenzylphthalate	260	UG/KG	1.0	U	U	Yes	
3,3'-Dichlorobenzidine	260	UG/KG	1.0	U	U	Yes	
Benzo(a)anthracene	1500	UG/KG	1.0			Yes	
Chrysene	1800	UG/KG	1.0			Yes	
Bis(2-ethylhexyl)	110	UG/KG	1.0	J	J	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	110	UG/KG	1.0	J	J	Yes	
Di-n-octylphthalate	260	UG/KG	1.0	U	U	Yes	
Benzo(b)fluorant hene	1000	UG/KG	1.0			Yes	
Benzo(k)fluorant hene	980	UG/KG	1.0			Yes	
Benzo(a)pyrene	1100	UG/KG	1.0			Yes	
Indeno(1,2,3-cd)pyrene	830	UG/KG	1.0			Yes	
Dibenzo(a,h)anthracene	270	UG/KG	1.0			Yes	
Benzo(g,h,i)perylene	810	UG/KG	1.0			Yes	
2,3,4,6-Tetrachlorophenol	260	UG/KG	1.0	U	U	Yes	
Pyrene, 1-methyl-			1.0	NJ		Yes	
1-(2-Aminobenzylidene)-1,2,3,4-tetrahydroacridine N-oxide			1.0	NJ		Yes	
11H-Benzo[a]fluoren-			1.0	NJ		Yes	

Case No:	43102	Contract:	EPW11031	SDG No:	E3P89	Lab Code:	KAP
Sample Number:	E3PA4	Method:	Pest	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:	SS-14	pH:	5.5	Sample Date:	11/06/2012	Sample Time:	15:56:00
% Moisture :	34.00			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
alpha-BHC	2.6	UG/KG	1.0	U	U	Yes	
beta-BHC	2.6	UG/KG	1.0	U	U	Yes	
delta-BHC	2.6	UG/KG	1.0	U	U	Yes	
gamma-BHC (Lindane)	2.6	UG/KG	1.0	U	U	Yes	
Heptachlor	2.6	UG/KG	1.0	U	U	Yes	
Aldrin	2.6	UG/KG	1.0	U	U	Yes	
Heptachlor epoxide	2.6	UG/KG	1.0	U	U	Yes	
Endosulfan I	2.6	UG/KG	1.0	U	U	Yes	
Dieldrin	5.0	UG/KG	1.0	U	U	Yes	
4,4'-DDE	5.0	UG/KG	1.0	U	U	Yes	
Endrin	5.0	UG/KG	1.0	U	U	Yes	
Endosulfan II	5.0	UG/KG	1.0	U	U	Yes	
4,4'-DDD	5.0	UG/KG	1.0	U	U	Yes	
Endosulfan sulfate	5.0	UG/KG	1.0	U	U	Yes	
4,4'-DDT	5.0	UG/KG	1.0	U	U	Yes	
Methoxychlor	26	UG/KG	1.0	U	U	Yes	
Endrin ketone	5.0	UG/KG	1.0	U	U	Yes	
Endrin aldehyde	5.0	UG/KG	1.0	U	U	Yes	
alpha-Chlordane	2.6	UG/KG	1.0	U	U	Yes	
gamma- Chlordane	2.6	UG/KG	1.0	U	U	Yes	
Toxaphene	260	UG/KG	1.0	U	U	Yes	

Case No:	43102	Contract:	EPW11031	SDG No:	E3P89	Lab Code:	KAP
Sample Number:	E3PA9	Method:	Aroclor	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:	SB-01	pH:	7.2	Sample Date:	11/05/2012	Sample Time:	10:05:00
% Moisture :	10			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	37	UG/KG	1.0	U	U	Yes	
Aroclor-1221	37	UG/KG	1.0	U	U	Yes	
Aroclor-1232	37	UG/KG	1.0	U	U	Yes	
Aroclor-1242	37	UG/KG	1.0	U	U	Yes	
Aroclor-1248	37	UG/KG	1.0	U	U	Yes	
Aroclor-1254	37	UG/KG	1.0	U	U	Yes	
Aroclor-1260	37	UG/KG	1.0	U	U	Yes	
Aroclor-1262	37	UG/KG	1.0	U	U	Yes	
Aroclor-1268	37	UG/KG	1.0	U	U	Yes	

Case No: 43102	Contract: EPW11031	SDG No: E3P89	Lab Code: KAP
Sample Number: E3PA9	Method: BNA	Matrix: SOIL	MA Number: DEFAULT
Sample Location: SB-01	pH: 7.2	Sample Date: 11/05/2012	Sample Time: 10:05:00
% Moisture: 10	% Solids:		

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	190	UG/KG	1.0	U	U	Yes	
Phenol	190	UG/KG	1.0	U	U	Yes	
Bis(2-chloroethyl)ether	190	UG/KG	1.0	U	U	Yes	
2-Chlorophenol	190	UG/KG	1.0	U	U	Yes	
2-Methylphenol	190	UG/KG	1.0	U	U	Yes	
2,2'-Oxybis(1-chloropropane)	190	UG/KG	1.0	U	U	Yes	
Acetophenone	190	UG/KG	1.0	U	U	Yes	
4-Methylphenol	190	UG/KG	1.0	U	U	Yes	
N-Nitroso-di-n-propylamine	190	UG/KG	1.0	U	U	Yes	
Hexachloroethane	190	UG/KG	1.0	U	U	Yes	
Nitrobenzene	190	UG/KG	1.0	U	U	Yes	
Isophorone	190	UG/KG	1.0	U	U	Yes	
2-Nitrophenol	190	UG/KG	1.0	U	U	Yes	
2,4-dimethylphenol	190	UG/KG	1.0	U	U	Yes	
Bis(2-chloroethoxy)methane	190	UG/KG	1.0	U	U	Yes	
2,4-Dichlorophenol	190	UG/KG	1.0	U	U	Yes	
Naphthalene	190	UG/KG	1.0	U	U	Yes	
4-Chloroaniline	190	UG/KG	1.0	U	U	Yes	
Hexachlorobutadiene	190	UG/KG	1.0	U	U	Yes	
Caprolactam	190	UG/KG	1.0	U	U	Yes	
4-Chloro-3-methylphenol	190	UG/KG	1.0	U	U	Yes	
2-Methylnaphthalene	190	UG/KG	1.0	U	U	Yes	
Hexachlorocyclopentadiene	190	UG/KG	1.0	U	U	Yes	
2,4,6-Trichlorophenol	190	UG/KG	1.0	U	U	Yes	
2,4,5-Trichlorophenol	190	UG/KG	1.0	U	U	Yes	
1,1'-Biphenyl	190	UG/KG	1.0	U	U	Yes	
2-Chloronaphthalene	190	UG/KG	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	370	UG/KG	1.0	U	U	Yes	
Dimethylphthalate	190	UG/KG	1.0	U	U	Yes	
2,6-Dinitrotoluene	190	UG/KG	1.0	U	U	Yes	
Acenaphthylene	190	UG/KG	1.0	U	U	Yes	
3-Nitroaniline	370	UG/KG	1.0	U	U	Yes	
Acenaphthene	190	UG/KG	1.0	U	U	Yes	
2,4-Dinitrophenol	370	UG/KG	1.0	U	U	Yes	
4-Nitrophenol	370	UG/KG	1.0	U	U	Yes	
Dibenzofuran	190	UG/KG	1.0	U	U	Yes	
2,4-Dinitrotoluene	190	UG/KG	1.0	U	U	Yes	
Diethylphthalate	190	UG/KG	1.0	U	U	Yes	
Fluorene	190	UG/KG	1.0	U	U	Yes	
4-Chlorophenylphenylether	190	UG/KG	1.0	U	U	Yes	
4-Nitroaniline	370	UG/KG	1.0	U	U	Yes	
4,6-Dinitro-2-methylphenol	370	UG/KG	1.0	U	U	Yes	
N-Nitrosodiphenylamine	190	UG/KG	1.0	U	U	Yes	
1,2,4,5-Tetrachlorobenzene	190	UG/KG	1.0	U	U	Yes	
4-Bromophenylphenylether	190	UG/KG	1.0	U	U	Yes	
Hexachlorobenzene	190	UG/KG	1.0	U	U	Yes	
Atrazine	190	UG/KG	1.0	U	U	Yes	
Pentachlorophenol	370	UG/KG	1.0	U	U	Yes	
Phenanthrene	190	UG/KG	1.0	U	U	Yes	
Anthracene	190	UG/KG	1.0	U	U	Yes	
Carbazole	190	UG/KG	1.0	U	U	Yes	
Di-n-butylphthalate	190	UG/KG	1.0	U	U	Yes	
Fluoranthene	190	UG/KG	1.0	U	U	Yes	
Pyrene	190	UG/KG	1.0	U	U	Yes	
Butylbenzylphthalate	190	UG/KG	1.0	U	U	Yes	
3,3'-Dichlorobenzidine	190	UG/KG	1.0	U	U	Yes	
Benzo(a)anthracene	190	UG/KG	1.0	U	U	Yes	
Chrysene	190	UG/KG	1.0	U	U	Yes	
Bis(2-ethylhexyl)	190	UG/KG	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	190	UG/KG	1.0	U	U	Yes	
Di-n-octylphthalate	190	UG/KG	1.0	U	U	Yes	
Benzo(b)fluoranthene	190	UG/KG	1.0	U	U	Yes	
Benzo(k)fluoranthene	190	UG/KG	1.0	U	U	Yes	
Benzo(a)pyrene	190	UG/KG	1.0	U	U	Yes	
Indeno(1,2,3-cd)pyrene	190	UG/KG	1.0	U	U	Yes	
Dibenzo(a,h)anthracene	190	UG/KG	1.0	U	U	Yes	
Benzo(g,h,i)perylene	190	UG/KG	1.0	U	U	Yes	
2,3,4,6-Tetrachlorophenol	190	UG/KG	1.0	U	U	Yes	
1,2-Benzenedicarboxylic acid, bis(2-methylpropyl) ester			1.0	NJ		Yes	

Case No:	43102	Contract:	EPW11031	SDG No:	E3P89	Lab Code:	KAP
Sample Number:	E3PA9	Method:	Pest	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:	SB-01	pH:	7.2	Sample Date:	11/05/2012	Sample Time:	10:05:00
% Moisture :	10.00			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
alpha-BHC	1.9	UG/KG	1.0	U	UJ	Yes	
beta-BHC	1.9	UG/KG	1.0	U	UJ	Yes	
delta-BHC	1.9	UG/KG	1.0	U	UJ	Yes	
gamma-BHC (Lindane)	1.9	UG/KG	1.0	U	UJ	Yes	
Heptachlor	1.9	UG/KG	1.0	U	UJ	Yes	
Aldrin	1.9	UG/KG	1.0	U	UJ	Yes	
Heptachlor epoxide	1.9	UG/KG	1.0	U	UJ	Yes	
Endosulfan I	1.9	UG/KG	1.0	U	UJ	Yes	
Dieldrin	3.6	UG/KG	1.0	U	UJ	Yes	
4,4'-DDE	3.6	UG/KG	1.0	U	UJ	Yes	
Endrin	3.6	UG/KG	1.0	U	UJ	Yes	
Endosulfan II	3.6	UG/KG	1.0	U	UJ	Yes	
4,4'-DDD	3.6	UG/KG	1.0	U	UJ	Yes	
Endosulfan sulfate	3.6	UG/KG	1.0	U	UJ	Yes	
4,4'-DDT	3.6	UG/KG	1.0	U	UJ	Yes	
Methoxychlor	19	UG/KG	1.0	U	UJ	Yes	
Endrin ketone	3.6	UG/KG	1.0	U	UJ	Yes	
Endrin aldehyde	3.6	UG/KG	1.0	U	UJ	Yes	
alpha-Chlordane	1.9	UG/KG	1.0	U	UJ	Yes	
gamma- Chlordane	1.9	UG/KG	1.0	U	UJ	Yes	
Toxaphene	190	UG/KG	1.0	U	UJ	Yes	

Case No:	43102	Contract:	EPW11031	SDG No:	E3P89	Lab Code:	KAP
Sample Number:	E3PB0	Method:	Pest	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:	SB-02	pH:	8.0	Sample Date:	11/05/2012	Sample Time:	14:35:00
% Moisture :	9.00			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
alpha-BHC	1.9	UG/KG	1.0	U	U	Yes	
beta-BHC	1.9	UG/KG	1.0	U	U	Yes	
delta-BHC	1.9	UG/KG	1.0	U	U	Yes	
gamma-BHC (Lindane)	1.9	UG/KG	1.0	U	U	Yes	
Heptachlor	1.9	UG/KG	1.0	U	U	Yes	
Aldrin	1.9	UG/KG	1.0	U	U	Yes	
Heptachlor epoxide	1.9	UG/KG	1.0	U	U	Yes	
Endosulfan I	1.9	UG/KG	1.0	U	U	Yes	
Dieldrin	3.6	UG/KG	1.0	U	U	Yes	
4,4'-DDE	3.6	UG/KG	1.0	U	U	Yes	
Endrin	3.6	UG/KG	1.0	U	U	Yes	
Endosulfan II	3.6	UG/KG	1.0	U	U	Yes	
4,4'-DDD	3.6	UG/KG	1.0	U	U	Yes	
Endosulfan sulfate	3.6	UG/KG	1.0	U	U	Yes	
4,4'-DDT	3.6	UG/KG	1.0	U	U	Yes	
Methoxychlor	19	UG/KG	1.0	U	U	Yes	
Endrin ketone	3.6	UG/KG	1.0	U	U	Yes	
Endrin aldehyde	3.6	UG/KG	1.0	U	U	Yes	
alpha-Chlordane	1.9	UG/KG	1.0	U	U	Yes	
gamma- Chlordane	1.9	UG/KG	1.0	U	U	Yes	
Toxaphene	190	UG/KG	1.0	U	U	Yes	

Case No:	43102	Contract:	EPW11031	SDG No:	E3P89	Lab Code:	KAP
Sample Number:	E3PB0	Method:	Aroclor	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:	SB-02	pH:	8.0	Sample Date:	11/05/2012	Sample Time:	14:35:00
% Moisture :	9.0			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	36	UG/KG	1.0	U	U	Yes	
Aroclor-1221	36	UG/KG	1.0	U	U	Yes	
Aroclor-1232	36	UG/KG	1.0	U	U	Yes	
Aroclor-1242	36	UG/KG	1.0	U	U	Yes	
Aroclor-1248	36	UG/KG	1.0	U	U	Yes	
Aroclor-1254	36	UG/KG	1.0	U	U	Yes	
Aroclor-1260	36	UG/KG	1.0	U	U	Yes	
Aroclor-1262	36	UG/KG	1.0	U	U	Yes	
Aroclor-1268	36	UG/KG	1.0	U	U	Yes	

Case No:	43102	Contract:	EPW11031	SDG No:	E3P89	Lab Code:	KAP
Sample Number:	E3PB0	Method:	BNA	Matrix:	SOIL	MA Number:	DEFAULT
Sample Location:	SB-02	pH:	8.0	Sample Date:	11/05/2012	Sample Time:	14:35:00
% Moisture :	9.0			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	190	UG/KG	1.0	U	U	Yes	
Phenol	190	UG/KG	1.0	U	U	Yes	
Bis(2-chloroethyl)ether	190	UG/KG	1.0	U	U	Yes	
2-Chlorophenol	190	UG/KG	1.0	U	U	Yes	
2-Methylphenol	190	UG/KG	1.0	U	U	Yes	
2,2'-Oxybis(1-chloropropane)	190	UG/KG	1.0	U	U	Yes	
Acetophenone	190	UG/KG	1.0	U	U	Yes	
4-Methylphenol	190	UG/KG	1.0	U	U	Yes	
N-Nitroso-di-n-propylamine	190	UG/KG	1.0	U	U	Yes	
Hexachloroethane	190	UG/KG	1.0	U	U	Yes	
Nitrobenzene	190	UG/KG	1.0	U	U	Yes	
Isophorone	190	UG/KG	1.0	U	U	Yes	
2-Nitrophenol	190	UG/KG	1.0	U	U	Yes	
2,4-dimethylphenol	190	UG/KG	1.0	U	U	Yes	
Bis(2-chloroethoxy)methane	190	UG/KG	1.0	U	U	Yes	
2,4-Dichlorophenol	190	UG/KG	1.0	U	U	Yes	
Naphthalene	190	UG/KG	1.0	U	U	Yes	
4-Chloroaniline	190	UG/KG	1.0	U	U	Yes	
Hexachlorobutadiene	190	UG/KG	1.0	U	U	Yes	
Caprolactam	190	UG/KG	1.0	U	U	Yes	
4-Chloro-3-methylphenol	190	UG/KG	1.0	U	U	Yes	
2-Methylnaphthalene	190	UG/KG	1.0	U	U	Yes	
Hexachlorocyclopentadiene	190	UG/KG	1.0	U	U	Yes	
2,4,6-Trichlorophenol	190	UG/KG	1.0	U	U	Yes	
2,4,5-Trichlorophenol	190	UG/KG	1.0	U	U	Yes	
1,1'-Biphenyl	190	UG/KG	1.0	U	U	Yes	
2-Chloronaphthalene	190	UG/KG	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	360	UG/KG	1.0	U	U	Yes	
Dimethylphthalate	190	UG/KG	1.0	U	U	Yes	
2,6-Dinitrotoluene	190	UG/KG	1.0	U	U	Yes	
Acenaphthylene	190	UG/KG	1.0	U	U	Yes	
3-Nitroaniline	360	UG/KG	1.0	U	U	Yes	
Acenaphthene	190	UG/KG	1.0	U	U	Yes	
2,4-Dinitrophenol	360	UG/KG	1.0	U	U	Yes	
4-Nitrophenol	360	UG/KG	1.0	U	U	Yes	
Dibenzofuran	190	UG/KG	1.0	U	U	Yes	
2,4-Dinitrotoluene	190	UG/KG	1.0	U	U	Yes	
Diethylphthalate	190	UG/KG	1.0	U	U	Yes	
Fluorene	190	UG/KG	1.0	U	U	Yes	
4-Chlorophenylphenylether	190	UG/KG	1.0	U	U	Yes	
4-Nitroaniline	360	UG/KG	1.0	U	U	Yes	
4,6-Dinitro-2-methylphenol	360	UG/KG	1.0	U	U	Yes	
N-Nitrosodiphenylamine	190	UG/KG	1.0	U	U	Yes	
1,2,4,5-Tetrachlorobenzene	190	UG/KG	1.0	U	U	Yes	
4-Bromophenylphenylether	190	UG/KG	1.0	U	U	Yes	
Hexachlorobenzene	190	UG/KG	1.0	U	U	Yes	
Atrazine	190	UG/KG	1.0	U	U	Yes	
Pentachlorophenol	360	UG/KG	1.0	U	U	Yes	
Phenanthrene	220	UG/KG	1.0			Yes	
Anthracene	190	UG/KG	1.0	U	U	Yes	
Carbazole	190	UG/KG	1.0	U	U	Yes	
Di-n-butylphthalate	190	UG/KG	1.0	U	U	Yes	
Fluoranthene	530	UG/KG	1.0			Yes	
Pyrene	350	UG/KG	1.0			Yes	
Butylbenzylphthalate	190	UG/KG	1.0	U	U	Yes	
3,3'-Dichlorobenzidine	190	UG/KG	1.0	U	U	Yes	
Benzo(a)anthracene	190	UG/KG	1.0			Yes	
Chrysene	260	UG/KG	1.0			Yes	
Bis(2-ethylhexyl)	190	UG/KG	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	190	UG/KG	1.0	U	U	Yes	
Di-n-octylphthalate	190	UG/KG	1.0	U	U	Yes	
Benzo(b)fluoranthene	160	UG/KG	1.0	J	J	Yes	
Benzo(k)fluoranthene	180	UG/KG	1.0	J	J	Yes	
Benzo(a)pyrene	200	UG/KG	1.0			Yes	
Indeno(1,2,3-cd)pyrene	130	UG/KG	1.0	J	J	Yes	
Dibenzo(a,h)anthracene	190	UG/KG	1.0	U	U	Yes	
Benzo(g,h,i)perylene	150	UG/KG	1.0	J	J	Yes	
2,3,4,6-Tetrachlorophenol	190	UG/KG	1.0	U	U	Yes	
Total Alkanes			1.0	J		Yes	
Cyclodocosane, ethyl-			1.0	NJ		No	

Case No:	43102	Contract:	EPW11031	SDG No:	E3P89	Lab Code:	KAP
Sample Number:	E3PB1	Method:	Aroclor	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:	SB-02D	pH:	8.1	Sample Date:	11/05/2012	Sample Time:	14:35:00
% Moisture :	11			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	37	UG/KG	1.0	U	U	Yes	
Aroclor-1221	37	UG/KG	1.0	U	U	Yes	
Aroclor-1232	37	UG/KG	1.0	U	U	Yes	
Aroclor-1242	37	UG/KG	1.0	U	U	Yes	
Aroclor-1248	37	UG/KG	1.0	U	U	Yes	
Aroclor-1254	37	UG/KG	1.0	U	U	Yes	
Aroclor-1260	37	UG/KG	1.0	U	U	Yes	
Aroclor-1262	37	UG/KG	1.0	U	U	Yes	
Aroclor-1268	37	UG/KG	1.0	U	U	Yes	

Case No:	43102	Contract:	EPW11031	SDG No:	E3P89	Lab Code:	KAP
Sample Number:	E3PB1	Method:	Pest	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:	SB-02D	pH:	8.1	Sample Date:	11/05/2012	Sample Time:	14:35:00
% Moisture :	11.00			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
alpha-BHC	1.9	UG/KG	1.0	U	U	Yes	
beta-BHC	1.9	UG/KG	1.0	U	U	Yes	
delta-BHC	1.9	UG/KG	1.0	U	U	Yes	
gamma-BHC (Lindane)	1.9	UG/KG	1.0	U	U	Yes	
Heptachlor	1.9	UG/KG	1.0	U	U	Yes	
Aldrin	1.9	UG/KG	1.0	U	U	Yes	
Heptachlor epoxide	1.9	UG/KG	1.0	U	U	Yes	
Endosulfan I	1.9	UG/KG	1.0	U	U	Yes	
Dieldrin	3.7	UG/KG	1.0	U	U	Yes	
4,4'-DDE	3.7	UG/KG	1.0	U	U	Yes	
Endrin	3.7	UG/KG	1.0	U	U	Yes	
Endosulfan II	3.7	UG/KG	1.0	U	U	Yes	
4,4'-DDD	3.7	UG/KG	1.0	U	U	Yes	
Endosulfan sulfate	3.7	UG/KG	1.0	U	U	Yes	
4,4'-DDT	3.7	UG/KG	1.0	U	U	Yes	
Methoxychlor	19	UG/KG	1.0	U	U	Yes	
Endrin ketone	3.7	UG/KG	1.0	U	U	Yes	
Endrin aldehyde	3.7	UG/KG	1.0	U	U	Yes	
alpha-Chlordane	1.9	UG/KG	1.0	U	U	Yes	
gamma- Chlordane	1.9	UG/KG	1.0	U	U	Yes	
Toxaphene	190	UG/KG	1.0	U	U	Yes	

Case No:	43102	Contract:	EPW11031	SDG No:	E3P89	Lab Code:	KAP
Sample Number:	E3PB1	Method:	BNA	Matrix:	SOIL	MA Number:	DEFAULT
Sample Location:	SB-02D	pH:	8.1	Sample Date:	11/05/2012	Sample Time:	14:35:00
% Moisture :	11			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	190	UG/KG	1.0	U	U	Yes	
Phenol	190	UG/KG	1.0	U	U	Yes	
Bis(2-chloroethyl)ether	190	UG/KG	1.0	U	U	Yes	
2-Chlorophenol	190	UG/KG	1.0	U	U	Yes	
2-Methylphenol	190	UG/KG	1.0	U	U	Yes	
2,2'-Oxybis(1-chloropropane)	190	UG/KG	1.0	U	U	Yes	
Acetophenone	190	UG/KG	1.0	U	U	Yes	
4-Methylphenol	190	UG/KG	1.0	U	UJ	Yes	
N-Nitroso-di-n-propylamine	190	UG/KG	1.0	U	UJ	Yes	
Hexachloroethane	190	UG/KG	1.0	U	U	Yes	
Nitrobenzene	190	UG/KG	1.0	U	U	Yes	
Isophorone	190	UG/KG	1.0	U	U	Yes	
2-Nitrophenol	190	UG/KG	1.0	U	U	Yes	
2,4-Dimethylphenol	190	UG/KG	1.0	U	U	Yes	
Bis(2-chloroethoxy)methane	190	UG/KG	1.0	U	U	Yes	
2,4-Dichlorophenol	190	UG/KG	1.0	U	U	Yes	
Naphthalene	190	UG/KG	1.0	U	U	Yes	
4-Chloroaniline	190	UG/KG	1.0	U	U	Yes	
Hexachlorobutadiene	190	UG/KG	1.0	U	U	Yes	
Caprolactam	190	UG/KG	1.0	U	U	Yes	
4-Chloro-3-methylphenol	190	UG/KG	1.0	U	U	Yes	
2-Methylnaphthalene	190	UG/KG	1.0	U	U	Yes	
Hexachlorocyclopentadiene	190	UG/KG	1.0	U	U	Yes	
2,4,6-Trichlorophenol	190	UG/KG	1.0	U	U	Yes	
2,4,5-Trichlorophenol	190	UG/KG	1.0	U	U	Yes	
1,1'-Biphenyl	190	UG/KG	1.0	U	U	Yes	
2-Chloronaphthalene	190	UG/KG	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	370	UG/KG	1.0	U	U	Yes	
Dimethylphthalate	190	UG/KG	1.0	U	U	Yes	
2,6-Dinitrotoluene	190	UG/KG	1.0	U	U	Yes	
Acenaphthylene	190	UG/KG	1.0	U	U	Yes	
3-Nitroaniline	370	UG/KG	1.0	U	U	Yes	
Acenaphthene	190	UG/KG	1.0	U	U	Yes	
2,4-Dinitrophenol	370	UG/KG	1.0	U	U	Yes	
4-Nitrophenol	370	UG/KG	1.0	U	U	Yes	
Dibenzofuran	190	UG/KG	1.0	U	U	Yes	
2,4-Dinitrotoluene	190	UG/KG	1.0	U	U	Yes	
Diethylphthalate	190	UG/KG	1.0	U	U	Yes	
Fluorene	190	UG/KG	1.0	U	U	Yes	
4-Chlorophenylphenylether	190	UG/KG	1.0	U	U	Yes	
4-Nitroaniline	370	UG/KG	1.0	U	U	Yes	
4,6-Dinitro-2-methylphenol	370	UG/KG	1.0	U	U	Yes	
N-Nitrosodiphenylamine	190	UG/KG	1.0	U	U	Yes	
1,2,4,5-tetrachlorobenzene	190	UG/KG	1.0	U	U	Yes	
4-Bromophenylphenylether	190	UG/KG	1.0	U	U	Yes	
Hexachlorobenzene	190	UG/KG	1.0	U	U	Yes	
Atrazine	190	UG/KG	1.0	U	U	Yes	
Pentachlorophenol	370	UG/KG	1.0	U	UJ	Yes	
Phenanthrene	320	UG/KG	1.0			Yes	
Anthracene	190	UG/KG	1.0	U	U	Yes	
Carbazole	190	UG/KG	1.0	U	U	Yes	
Di-n-butylphthalate	190	UG/KG	1.0	U	U	Yes	
Fluoranthene	470	UG/KG	1.0			Yes	
Pyrene	450	UG/KG	1.0			Yes	
Butylbenzylphthalate	190	UG/KG	1.0	U	U	Yes	
3,3'-Dichlorobenzidine	190	UG/KG	1.0	U	U	Yes	
Benzo(a)anthracene	250	UG/KG	1.0			Yes	
Chrysene	290	UG/KG	1.0			Yes	
Bis(2-ethylhexyl)	180	UG/KG	1.0	J	J	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	180	UG/KG	1.0	J	J	Yes	
Di-n-octylphthalate	190	UG/KG	1.0	U	U	Yes	
Benzo(b)fluorant hene	200	UG/KG	1.0			Yes	
Benzo(k)fluorant hene	170	UG/KG	1.0	J	J	Yes	
Benzo(a)pyrene	230	UG/KG	1.0			Yes	
Indeno(1,2,3-cd)pyrene	140	UG/KG	1.0	J	J	Yes	
Dibenzo(a,h)anthracene	190	UG/KG	1.0	U	U	Yes	
Benzo(g,h,i)perylene	150	UG/KG	1.0	J	J	Yes	
2,3,4,6-Tetrachlorophenol	190	UG/KG	1.0	U	U	Yes	
n-Hexadecanoic acid			1.0	NJ		Yes	
9-Eicosene, (E)-			1.0	NJ		Yes	
.gamma.-Sitosterol			1.0	NJ		Yes	

Case No:	43102	Contract:	EPW11031	SDG No:	E3P89	Lab Code:	KAP
Sample Number:	E3PB3	Method:	BNA	Matrix:	SOIL	MA Number:	DEFAULT
Sample Location:	SB-04	pH:	8.0	Sample Date:	11/06/2012	Sample Time:	13:00:00
% Moisture :	7.0			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	180	UG/KG	1.0	U	U	Yes	
Phenol	180	UG/KG	1.0	U	U	Yes	
Bis(2-chloroethyl)ether	180	UG/KG	1.0	U	U	Yes	
2-Chlorophenol	180	UG/KG	1.0	U	U	Yes	
2-Methylphenol	180	UG/KG	1.0	U	U	Yes	
2,2'-Oxybis(1-chloropropane)	180	UG/KG	1.0	U	U	Yes	
Acetophenone	180	UG/KG	1.0	U	U	Yes	
4-Methylphenol	180	UG/KG	1.0	U	U	Yes	
N-Nitroso-di-n-propylamine	180	UG/KG	1.0	U	U	Yes	
Hexachloroethane	180	UG/KG	1.0	U	U	Yes	
Nitrobenzene	180	UG/KG	1.0	U	U	Yes	
Isophorone	180	UG/KG	1.0	U	U	Yes	
2-Nitrophenol	180	UG/KG	1.0	U	U	Yes	
2,4-dimethylphenol	180	UG/KG	1.0	U	U	Yes	
Bis(2-chloroethoxy)methane	180	UG/KG	1.0	U	U	Yes	
2,4-Dichlorophenol	180	UG/KG	1.0	U	U	Yes	
Naphthalene	180	UG/KG	1.0	U	U	Yes	
4-Chloroaniline	180	UG/KG	1.0	U	U	Yes	
Hexachlorobutadiene	180	UG/KG	1.0	U	U	Yes	
Caprolactam	180	UG/KG	1.0	U	U	Yes	
4-Chloro-3-methylphenol	180	UG/KG	1.0	U	U	Yes	
2-Methylnaphthalene	180	UG/KG	1.0	U	U	Yes	
Hexachlorocyclopentadiene	180	UG/KG	1.0	U	U	Yes	
2,4,6-Trichlorophenol	180	UG/KG	1.0	U	U	Yes	
2,4,5-Trichlorophenol	180	UG/KG	1.0	U	U	Yes	
1,1'-Biphenyl	180	UG/KG	1.0	U	U	Yes	
2-Chloronaphthalene	180	UG/KG	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	350	UG/KG	1.0	U	U	Yes	
Dimethylphthalate	180	UG/KG	1.0	U	U	Yes	
2,6-Dinitrotoluene	180	UG/KG	1.0	U	U	Yes	
Acenaphthylene	180	UG/KG	1.0	U	U	Yes	
3-Nitroaniline	350	UG/KG	1.0	U	U	Yes	
Acenaphthene	180	UG/KG	1.0	U	U	Yes	
2,4-Dinitrophenol	350	UG/KG	1.0	U	U	Yes	
4-Nitrophenol	350	UG/KG	1.0	U	U	Yes	
Dibenzofuran	180	UG/KG	1.0	U	U	Yes	
2,4-Dinitrotoluene	180	UG/KG	1.0	U	U	Yes	
Diethylphthalate	180	UG/KG	1.0	U	U	Yes	
Fluorene	180	UG/KG	1.0	U	U	Yes	
4-Chlorophenylphenylether	180	UG/KG	1.0	U	U	Yes	
4-Nitroaniline	350	UG/KG	1.0	U	U	Yes	
4,6-Dinitro-2-methylphenol	350	UG/KG	1.0	U	U	Yes	
N-Nitrosodiphenylamine	180	UG/KG	1.0	U	U	Yes	
1,2,4,5-Tetrachlorobenzene	180	UG/KG	1.0	U	U	Yes	
4-Bromophenylphenylether	180	UG/KG	1.0	U	U	Yes	
Hexachlorobenzene	180	UG/KG	1.0	U	U	Yes	
Atrazine	180	UG/KG	1.0	U	U	Yes	
Pentachlorophenol	350	UG/KG	1.0	U	U	Yes	
Phenanthrene	180	UG/KG	1.0	U	U	Yes	
Anthracene	180	UG/KG	1.0	U	U	Yes	
Carbazole	180	UG/KG	1.0	U	U	Yes	
Di-n-butylphthalate	180	UG/KG	1.0	U	U	Yes	
Fluoranthene	320	UG/KG	1.0			Yes	
Pyrene	320	UG/KG	1.0			Yes	
Butylbenzylphthalate	180	UG/KG	1.0	U	U	Yes	
3,3'-Dichlorobenzidine	180	UG/KG	1.0	U	U	Yes	
Benzo(a)anthracene	130	UG/KG	1.0	J	J	Yes	
Chrysene	160	UG/KG	1.0	J	J	Yes	
Bis(2-ethylhexyl)	180	UG/KG	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	180	UG/KG	1.0	U	U	Yes	
Di-n-octylphthalate	180	UG/KG	1.0	U	U	Yes	
Benzo(b)fluoranthene	130	UG/KG	1.0	J	J	Yes	
Benzo(k)fluoranthene	120	UG/KG	1.0	J	J	Yes	
Benzo(a)pyrene	130	UG/KG	1.0	J	J	Yes	
Indeno(1,2,3-cd)pyrene	80	UG/KG	1.0	J	J	Yes	
Dibenzo(a,h)anthracene	180	UG/KG	1.0	U	U	Yes	
Benzo(g,h,i)perylene	99	UG/KG	1.0	J	J	Yes	
2,3,4,6-Tetrachlorophenol	180	UG/KG	1.0	U	U	Yes	
1,2-Benzenedicarboxylic acid, bis(2-methylpropyl) ester			1.0	NJ		Yes	

Case No: 43102	Contract: EPW11031	SDG No: E3P89	Lab Code: KAP
Sample Number: E3PB3	Method: Aroclor	Matrix: Soil	MA Number: DEFAULT
Sample Location: SB-04	pH: 8.0	Sample Date: 11/06/2012	Sample Time: 13:00:00
% Moisture : 7.0	% Solids :		

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	35	UG/KG	1.0	U	U	Yes	
Aroclor-1221	35	UG/KG	1.0	U	U	Yes	
Aroclor-1232	35	UG/KG	1.0	U	U	Yes	
Aroclor-1242	35	UG/KG	1.0	U	U	Yes	
Aroclor-1248	35	UG/KG	1.0	U	U	Yes	
Aroclor-1254	35	UG/KG	1.0	U	U	Yes	
Aroclor-1260	35	UG/KG	1.0	U	U	Yes	
Aroclor-1262	35	UG/KG	1.0	U	U	Yes	
Aroclor-1268	35	UG/KG	1.0	U	U	Yes	

Case No:	43102	Contract:	EPW11031	SDG No:	E3P89	Lab Code:	KAP
Sample Number:	E3PB3	Method:	Pest	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:	SB-04	pH:	8.0	Sample Date:	11/06/2012	Sample Time:	13:00:00
% Moisture :	7.00			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
alpha-BHC	1.8	UG/KG	1.0	U	UJ	Yes	
beta-BHC	1.8	UG/KG	1.0	U	UJ	Yes	
delta-BHC	1.8	UG/KG	1.0	U	UJ	Yes	
gamma-BHC (Lindane)	1.8	UG/KG	1.0	U	UJ	Yes	
Heptachlor	1.8	UG/KG	1.0	U	UJ	Yes	
Aldrin	1.8	UG/KG	1.0	U	UJ	Yes	
Heptachlor epoxide	1.8	UG/KG	1.0	U	UJ	Yes	
Endosulfan I	1.8	UG/KG	1.0	U	UJ	Yes	
Dieldrin	3.5	UG/KG	1.0	U	UJ	Yes	
4,4'-DDE	3.5	UG/KG	1.0	U	UJ	Yes	
Endrin	3.5	UG/KG	1.0	U	UJ	Yes	
Endosulfan II	3.5	UG/KG	1.0	U	UJ	Yes	
4,4'-DDD	3.5	UG/KG	1.0	U	UJ	Yes	
Endosulfan sulfate	3.5	UG/KG	1.0	U	UJ	Yes	
4,4'-DDT	3.5	UG/KG	1.0	U	UJ	Yes	
Methoxychlor	18	UG/KG	1.0	U	UJ	Yes	
Endrin ketone	3.5	UG/KG	1.0	U	UJ	Yes	
Endrin aldehyde	3.5	UG/KG	1.0	U	UJ	Yes	
alpha-Chlordane	1.8	UG/KG	1.0	U	UJ	Yes	
gamma- Chlordane	1.8	UG/KG	1.0	U	UJ	Yes	
Toxaphene	180	UG/KG	1.0	U	UJ	Yes	

Case No:	43102	Contract:	EPW11031	SDG No:	E3P89	Lab Code:	KAP
Sample Number:	E3PB3MS	Method:	Aroclor	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:	SB-04	pH:	8.0	Sample Date:	11/06/2012	Sample Time:	13:00:00
% Moisture :	7.0			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	100	UG/KG	1.0	P	J	Yes	
Aroclor-1260	73	UG/KG	1.0			Yes	
Aroclor-1221	35	UG/KG	1.0	U	U	Yes	
Aroclor-1232	35	UG/KG	1.0	U	U	Yes	
Aroclor-1242	35	UG/KG	1.0	U	U	Yes	
Aroclor-1248	35	UG/KG	1.0	U	U	Yes	
Aroclor-1254	35	UG/KG	1.0	U	U	Yes	
Aroclor-1262	35	UG/KG	1.0	U	U	Yes	
Aroclor-1268	35	UG/KG	1.0	U	U	Yes	

Case No:	43102	Contract:	EPW11031	SDG No:	E3P89	Lab Code:	KAP
Sample Number:	E3PB3MSD	Method:	Aroclor	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:	SB-04	pH:	8.0	Sample Date:	11/06/2012	Sample Time:	13:00:00
% Moisture :	7.0			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	100	UG/KG	1.0	P	J	Yes	
Aroclor-1260	73	UG/KG	1.0	P	J	Yes	
Aroclor-1221	36	UG/KG	1.0	U	U	Yes	
Aroclor-1232	36	UG/KG	1.0	U	U	Yes	
Aroclor-1242	36	UG/KG	1.0	U	U	Yes	
Aroclor-1248	36	UG/KG	1.0	U	U	Yes	
Aroclor-1254	36	UG/KG	1.0	U	U	Yes	
Aroclor-1262	36	UG/KG	1.0	U	U	Yes	
Aroclor-1268	36	UG/KG	1.0	U	U	Yes	

Case No: 43102	Contract: EPW11031	SDG No: E3P89	Lab Code: KAP
Sample Number: PBLK71	Method: Pest	Matrix: Soil	MA Number: DEFAULT
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture : 0.00		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
alpha-BHC	1.7	UG/KG	1.0	U	U	Yes	
beta-BHC	1.7	UG/KG	1.0	U	U	Yes	
delta-BHC	1.7	UG/KG	1.0	U	U	Yes	
gamma-BHC (Lindane)	1.7	UG/KG	1.0	U	U	Yes	
Heptachlor	1.7	UG/KG	1.0	U	U	Yes	
Aldrin	1.7	UG/KG	1.0	U	U	Yes	
Heptachlor epoxide	1.7	UG/KG	1.0	U	U	Yes	
Endosulfan I	1.7	UG/KG	1.0	U	U	Yes	
Dieldrin	3.3	UG/KG	1.0	U	U	Yes	
4,4'-DDE	3.3	UG/KG	1.0	U	U	Yes	
Endrin	3.3	UG/KG	1.0	U	U	Yes	
Endosulfan II	3.3	UG/KG	1.0	U	U	Yes	
4,4'-DDD	3.3	UG/KG	1.0	U	U	Yes	
Endosulfan sulfate	3.3	UG/KG	1.0	U	U	Yes	
4,4'-DDT	3.3	UG/KG	1.0	U	U	Yes	
Methoxychlor	17	UG/KG	1.0	U	U	Yes	
Endrin ketone	3.3	UG/KG	1.0	U	U	Yes	
Endrin aldehyde	3.3	UG/KG	1.0	U	U	Yes	
alpha-Chlordane	1.7	UG/KG	1.0	U	U	Yes	
gamma- Chlordane	1.7	UG/KG	1.0	U	U	Yes	
Toxaphene	170	UG/KG	1.0	U	U	Yes	

Case No:	43102	Contract:	EPW11031	SDG No:	E3P89	Lab Code:	KAP
Sample Number:	SBLK58	Method:	BNA	Matrix:	SOIL	MA Number:	DEFAULT
Sample Location:		pH:		Sample Date:		Sample Time:	
% Moisture :	0.00			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	170	UG/KG	1.0	U	U	Yes	
Phenol	170	UG/KG	1.0	U	U	Yes	
Bis(2-chloroethyl)ether	170	UG/KG	1.0	U	U	Yes	
2-Chlorophenol	170	UG/KG	1.0	U	U	Yes	
2-Methylphenol	170	UG/KG	1.0	U	U	Yes	
2,2'-Oxybis(1-chloropropane)	170	UG/KG	1.0	U	U	Yes	
Acetophenone	170	UG/KG	1.0	U	U	Yes	
4-Methylphenol	170	UG/KG	1.0	U	U	Yes	
N-Nitroso-di-n-propylamine	170	UG/KG	1.0	U	U	Yes	
Hexachloroethane	170	UG/KG	1.0	U	U	Yes	
Nitrobenzene	170	UG/KG	1.0	U	U	Yes	
Isophorone	170	UG/KG	1.0	U	U	Yes	
2-Nitrophenol	170	UG/KG	1.0	U	U	Yes	
2,4-dimethylphenol	170	UG/KG	1.0	U	U	Yes	
Bis(2-chloroethoxy)methane	170	UG/KG	1.0	U	U	Yes	
2,4-Dichlorophenol	170	UG/KG	1.0	U	U	Yes	
Naphthalene	170	UG/KG	1.0	U	U	Yes	
4-Chloroaniline	170	UG/KG	1.0	U	U	Yes	
Hexachlorobutadiene	170	UG/KG	1.0	U	U	Yes	
Caprolactam	170	UG/KG	1.0	U	U	Yes	
4-Chloro-3-methylphenol	170	UG/KG	1.0	U	U	Yes	
2-Methylnaphthalene	170	UG/KG	1.0	U	U	Yes	
Hexachlorocyclopentadiene	170	UG/KG	1.0	U	U	Yes	
2,4,6-Trichlorophenol	170	UG/KG	1.0	U	U	Yes	
2,4,5-Trichlorophenol	170	UG/KG	1.0	U	U	Yes	
1,1'-Biphenyl	170	UG/KG	1.0	U	U	Yes	
2-Chloronaphthalene	170	UG/KG	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	330	UG/KG	1.0	U	U	Yes	
Dimethylphthalate	170	UG/KG	1.0	U	U	Yes	
2,6-Dinitrotoluene	170	UG/KG	1.0	U	U	Yes	
Acenaphthylene	170	UG/KG	1.0	U	U	Yes	
3-Nitroaniline	330	UG/KG	1.0	U	U	Yes	
Acenaphthene	170	UG/KG	1.0	U	U	Yes	
2,4-Dinitrophenol	330	UG/KG	1.0	U	U	Yes	
4-Nitrophenol	330	UG/KG	1.0	U	U	Yes	
Dibenzofuran	170	UG/KG	1.0	U	U	Yes	
2,4-Dinitrotoluene	170	UG/KG	1.0	U	U	Yes	
Diethylphthalate	170	UG/KG	1.0	U	U	Yes	
Fluorene	170	UG/KG	1.0	U	U	Yes	
4-Chlorophenylphenylether	170	UG/KG	1.0	U	U	Yes	
4-Nitroaniline	330	UG/KG	1.0	U	U	Yes	
4,6-Dinitro-2-methylphenol	330	UG/KG	1.0	U	U	Yes	
N-Nitrosodiphenylamine	170	UG/KG	1.0	U	U	Yes	
1,2,4,5-Tetrachlorobenzene	170	UG/KG	1.0	U	U	Yes	
4-Bromophenylphenylether	170	UG/KG	1.0	U	U	Yes	
Hexachlorobenzene	170	UG/KG	1.0	U	U	Yes	
Atrazine	170	UG/KG	1.0	U	U	Yes	
Pentachlorophenol	330	UG/KG	1.0	U	U	Yes	
Phenanthrene	170	UG/KG	1.0	U	U	Yes	
Anthracene	170	UG/KG	1.0	U	U	Yes	
Carbazole	170	UG/KG	1.0	U	U	Yes	
Di-n-butylphthalate	170	UG/KG	1.0	U	U	Yes	
Fluoranthene	170	UG/KG	1.0	U	U	Yes	
Pyrene	170	UG/KG	1.0	U	U	Yes	
Butylbenzylphthalate	170	UG/KG	1.0	U	U	Yes	
3,3'-Dichlorobenzidine	170	UG/KG	1.0	U	U	Yes	
Benzo(a)anthracene	170	UG/KG	1.0	U	U	Yes	
Chrysene	170	UG/KG	1.0	U	U	Yes	
Bis(2-ethylhexyl)	170	UG/KG	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	170	UG/KG	1.0	U	U	Yes	
Di-n-octylphthalate	170	UG/KG	1.0	U	U	Yes	
Benzo(b)fluoranthene	170	UG/KG	1.0	U	U	Yes	
Benzo(k)fluoranthene	170	UG/KG	1.0	U	U	Yes	
Benzo(a)pyrene	170	UG/KG	1.0	U	U	Yes	
Indeno(1,2,3-cd)pyrene	170	UG/KG	1.0	U	U	Yes	
Dibenzo(a,h)anthracene	170	UG/KG	1.0	U	U	Yes	
Benzo(g,h,i)perylene	170	UG/KG	1.0	U	U	Yes	
2,3,4,6-Tetrachlorophenol	170	UG/KG	1.0	U	U	Yes	

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Lab KAP(KAP Technologies, Inc.) SDG E3P89 Case 43102 Contract EPW11031 Region 5 DDTID 166048 SOW SOM01.2

Tentatively Identified Compounds

BNA Sample=E3P89 Location=SS-01 Matrix=SOIL Level=LOW

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
000124-25-4	Tetradecanal	19.08	430	UG/KG	NJ
000083-47-6	.gamma.-Sitosterol	21.64	410	UG/KG	NJ

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Lab KAP(KAP Technologies, Inc.) SDG E3P89 Case 43102 Contract EPW11031 Region 5 DDTID 166048 SOW SOM01.2

Tentatively Identified Compounds

BNA Sample=E3P90 Location=SS-02 Matrix=SOIL Level=LOW

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
	Unknown-01	23.79	690	UG/KG	J
	Unknown-02	24.39	570	UG/KG	J
000058-22-0	Testosterone	24.76	820	UG/KG	NJ

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Lab KAP(KAP Technologies, Inc.) SDG E3P89 Case 43102 Contract EPW11031 Region 5 DDTID 166048 SOW SOM01.2

Tentatively Identified Compounds

BNA Sample=E3P91 Location=SS-02D Matrix=SOIL Level=LOW

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
	Unknown-01	20.59	480	UG/KG	J
	Unknown-02	23.79	550	UG/KG	J
000604-39-7	Androst-4-en-3-one, 17-hydroxy-, (10.alpha.,17.beta.)-	24.76	580	UG/KG	NJ

National Functional Guidelines Report #09

Lab KAP(KAP Technologies, Inc.) **SDG** E3P89 **Case** 43102 **Contract** EPW11031 **Region** 5 **DDTID** 166048 **SOW** SOM01.2

Tentatively Identified Compounds

BNA Sample=E3P92 Location=SS-03 Matrix=SOIL Level=LOW

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
	Unknown-01	18.49	1500	UG/KG	J
	Unknown-02	18.79	1500	UG/KG	J
	Unknown-03	20.60	2100	UG/KG	J
	Unknown-04	20.91	2100	UG/KG	J
	Unknown-05	21.29	1600	UG/KG	J
	Unknown-06	23.33	3600	UG/KG	J
	Unknown-07	23.65	2000	UG/KG	J
	Unknown-08	23.88	5000	UG/KG	J
	Unknown-09	24.59	1600	UG/KG	J
001058-61-3	Stigmast-4-en-3-one	24.81	3400	UG/KG	NJ

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Lab KAP(KAP Technologies, Inc.) SDG E3P89 Case 43102 Contract EPW11031 Region 5 DDTID 166048 SOW SOM01.2

Tentatively Identified Compounds

BNA Sample=E3P92DL Location=SS-03 Matrix=SOIL Level=LOW

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
	Unknown-01	14.99	3000	UG/KG	DJ
	Unknown-02	15.51	2500	UG/KG	DJ
003353-12-6	Pyrene, 4-methyl-	16.32	2900	UG/KG	DNJ
002381-21-7	Pyrene, 1-methyl-	16.42	2600	UG/KG	DNJ
	Unknown-03	20.33	3100	UG/KG	DJ
	Unknown-04	21.61	7500	UG/KG	DJ
	Unknown-05	22.13	5500	UG/KG	DJ
	Unknown-06	22.60	3700	UG/KG	DJ
001058-61-3	Stigmast-4-en-3-one	23.05	4900	UG/KG	DNJ
	Unknown-07	24.61	3600	UG/KG	DJ

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Lab KAP(KAP Technologies, Inc.) SDG E3P89 Case 43102 Contract EPW11031 Region 5 DDTID 166048 SOW SOM01.2

Tentatively Identified Compounds

BNA Sample=E3P93 Location=SS-04 Matrix=SOIL Level=LOW

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
000057-10-3	n-Hexadecanoic acid	15.31	580	UG/KG	NJ
	Unknown-01	15.48	570	UG/KG	J
053555-64-9	Naphthalene, 1,3,5,7-tetrachloro-	15.65	530	UG/KG	NJ
055720-43-9	Naphthalene, 1,4,6,7-tetrachloro-	15.71	610	UG/KG	NJ
020020-02-4	Naphthalene, 1,2,3,4-tetrachloro-	15.86	890	UG/KG	NJ
	Unknown-02	17.65	660	UG/KG	J
	Unknown-03	18.42	610	UG/KG	J
	Unknown-04	19.66	570	UG/KG	J
000473-08-5	7-Isopropenyl-1,4a-dimethyl-4,4a,5,6,7,8-hexahydro-3H-naphthalen-2-one	20.07	520	UG/KG	NJ

National Functional Guidelines Report #09

Lab KAP(KAP Technologies, Inc.) SDG E3P89 Case 43102 Contract EPW11031 Region 5 DDTID 166048 SOW SOM01.2

Tentatively Identified Compounds

BNA Sample=E3P94 Location=SS-05 Matrix=SOIL Level=LOW

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
	Unknown-01	12.90	990	UG/KG	J
	Unknown-02	13.15	560	UG/KG	J
	Unknown-03	13.19	770	UG/KG	J
	Unknown-04	13.24	630	UG/KG	J
	Unknown-05	13.28	620	UG/KG	J
	Unknown-06	13.52	1000	UG/KG	J
078782-15-7	Dammarane-3,12,25-triol, 20,24-epoxy-, 12-acetate 3-(hydrogen propanedioate), (3.alpha.,12.beta.,24R	17.65	1700	UG/KG	NJ
055591-14-5	Piperazine, 1-methyl-4-(1,2,3,4-tetrahydro-3,7-dimethyl-2-naphthalenyl)-	18.37	780	UG/KG	NJ
	Unknown-07	18.48	590	UG/KG	J
	Unknown-09	19.57	570	UG/KG	J
	Unknown-10	19.69	610	UG/KG	J
	Unknown-11	19.79	620	UG/KG	J
	Unknown-12	19.85	900	UG/KG	J
	Unknown-13	20.06	620	UG/KG	J
	Unknown-14	20.28	960	UG/KG	J
053584-60-4	28-Nor-17.alpha.(H)-hopane	20.59	760	UG/KG	NJ
	Unknown-15	20.90	560	UG/KG	J
	Unknown-16	21.29	840	UG/KG	J
	Unknown-17	21.51	600	UG/KG	J

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Lab KAP(KAP Technologies, Inc.) SDG E3P89 Case 43102 Contract EPW11031 Region 5 DDTID 166048 SOW SOM01.2

Tentatively Identified Compounds

BNA Sample=E3P95 Location=SS-06 Matrix=SOIL Level=LOW

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
1000214-20-7	Stigmasterol, 22,23-dihydro-	21.64	590	UG/KG	NJ
001058-61-3	Stigmast-4-en-3-one	23.11	440	UG/KG	NJ

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Lab KAP(KAP Technologies, Inc.) SDG E3P89 Case 43102 Contract EPW11031 Region 5 DDTID 166048 SOW SOM01.2

Tentatively Identified Compounds

BNA Sample=E3P96 Location=SS-07 Matrix=SOIL Level=LOW

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
000192-97-2	Benzo[e]pyrene	19.02	740	UG/KG	NJ
	Unknown-01	20.90	670	UG/KG	J
	Unknown-02	21.50	800	UG/KG	J

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Lab KAP(KAP Technologies, Inc.) SDG E3P89 Case 43102 Contract EPW11031 Region 5 DDTID 166048 SOW SOM01.2

Tentatively Identified Compounds

BNA Sample=E3P97 Location=SS-08 Matrix=SOIL Level=LOW

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
	Unknown-01	15.35	1400	UG/KG	J
033543-31-6	Fluoranthene, 2-methyl-	16.69	1100	UG/KG	NJ
	Unknown-02	17.02	1000	UG/KG	J
	Unknown-03	18.66	2000	UG/KG	J
	Unknown-04	18.80	1000	UG/KG	J
	Unknown-05	20.37	1400	UG/KG	J
	Unknown-06	20.92	1000	UG/KG	J
	Unknown-07	21.32	1200	UG/KG	J
	Unknown-08	21.56	1400	UG/KG	J
000213-46-7	1,2:7,8-Dibenzophenanthrene	22.19	1100	UG/KG	NJ

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Lab KAP(KAP Technologies, Inc.) SDG E3P89 Case 43102 Contract EPW11031 Region 5 DDTID 166048 SOW SOM01.2

Tentatively Identified Compounds

BNA Sample=E3P97DL Location=SS-08 Matrix=SOIL Level=LOW

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
	Unknown-01	14.53	3400	UG/KG	DJ
000613-12-7	Anthracene, 2-methyl-	14.87	3900	UG/KG	DNJ
	Unknown-02	15.00	6700	UG/KG	DJ
035465-71-5	2-Phenylnaphthalene	15.20	3700	UG/KG	DNJ
000084-65-1	9,10-Anthracenedione	15.23	3800	UG/KG	DNJ
001576-67-6	Phenanthrene, 3,6-dimethyl-	15.40	4200	UG/KG	DNJ
003674-66-6	Phenanthrene, 2,5-dimethyl-	15.49	4500	UG/KG	DNJ
005737-13-3	Cyclopenta(def)phenanthrenone	15.57	4200	UG/KG	DNJ
002381-21-7	Pyrene, 1-methyl-	16.33	5100	UG/KG	DNJ
	Unknown-03	16.66	3300	UG/KG	DJ

National Functional Guidelines Report #09

Lab KAP(KAP Technologies, Inc.) **SDG** E3P89 **Case** 43102 **Contract** EPW11031 **Region** 5 **DDTID** 166048 **SOW** SOM01.2

Tentatively Identified Compounds

BNA Sample=E3P98 **Location**=SS-09 **Matrix**=SOIL **Level**=LOW

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
039827-01-5	Selenolo[3,4-b][1]benzoselenophen-3(1H)-one	18.90	810	UG/KG	NJ
	Unknown-01	19.08	990	UG/KG	J
	Unknown-02	19.19	620	UG/KG	J
001599-67-3	1-Docosene	20.60	1200	UG/KG	NJ
	Unknown-03	21.76	710	UG/KG	J

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Lab KAP(KAP Technologies, Inc.) SDG E3P89 Case 43102 Contract EPW11031 Region 5 DDTID 166048 SOW SOM01.2

Tentatively Identified Compounds

BNA Sample=E3P99 Location=SS-10 Matrix=SOIL Level=LOW

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
000057-10-3	n-Hexadecanoic acid	15.31	660	UG/KG	NJ
000189-64-0	3,4:8,9-Dibenzopyrene	17.02	840	UG/KG	NJ
	Unknown-01	17.27	1500	UG/KG	J
	Unknown-02	17.35	590	UG/KG	J
	Unknown-03	17.68	1400	UG/KG	J
	Unknown-04	17.73	630	UG/KG	J
	Unknown-05	17.88	700	UG/KG	J
	Unknown-06	17.99	930	UG/KG	J
	Unknown-07	18.18	1400	UG/KG	J
	Unknown-08	18.38	1200	UG/KG	J
	Unknown-09	18.46	920	UG/KG	J
	Unknown-10	18.86	760	UG/KG	J
	Unknown-11	18.93	570	UG/KG	J
	Unknown-12	19.03	800	UG/KG	J
	Unknown-13	19.19	1100	UG/KG	J
	Unknown-14	19.65	640	UG/KG	J
	Unknown-15	19.73	760	UG/KG	J
	Unknown-16	19.94	1300	UG/KG	J
	Unknown-17	20.11	980	UG/KG	J
	Unknown-18	20.26	590	UG/KG	J
	Unknown-19	20.51	950	UG/KG	J
	Unknown-20	20.75	580	UG/KG	J
	Unknown-21	20.83	690	UG/KG	J
	Unknown-22	20.95	550	UG/KG	J
	Unknown-23	21.36	690	UG/KG	J

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Lab KAP(KAP Technologies, Inc.) SDG E3P89 Case 43102 Contract EPW11031 Region 5 DDTID 166048 SOW SOM01.2

Tentatively Identified Compounds

BNA Sample=E3PA0 Location=SS-11 Matrix=SOIL Level=LOW

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
	Unknown-01	17.29	1200	UG/KG	J
	Unknown-02	20.10	1300	UG/KG	J
350816-89-6	2,2,2-Trichlorethyl-3-[2-(bromomethyl)-4-chlor-1,3-oxazol-5-yl]-2-chlor-1H-indol-1-carboxylat	21.33	1200	UG/KG	NJ

National Functional Guidelines Report #09

Lab KAP(KAP Technologies, Inc.) **SDG** E3P89 **Case** 43102 **Contract** EPW11031 **Region** 5 **DDTID** 166048 **SOW** SOM01.2

Tentatively Identified Compounds

BNA Sample=E3PA1 Location=SS-12 Matrix=SOIL Level=LOW

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
	Unknown-01	14.62	570	UG/KG	J
	Unknown-02	15.53	390	UG/KG	J

National Functional Guidelines Report #09

Lab KAP(KAP Technologies, Inc.) SDG E3P89 Case 43102 Contract EPW11031 Region 5 DDTID 166048 SOW SOM01.2

Tentatively Identified Compounds

BNA Sample=E3PA2 Location=SS-12D Matrix=SOIL Level=LOW

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
	Unknown-01	15.53	350	UG/KG	J
000191-26-4	Dibenzo[def,mno]chrysene	21.35	340	UG/KG	NJ

National Functional Guidelines Report #09

Lab KAP(KAP Technologies, Inc.) SDG E3P89 Case 43102 Contract EPW11031 Region 5 DDTID 166048 SOW SOM01.2

Tentatively Identified Compounds

BNA Sample=E3PA3 Location=SS-13 Matrix=SOIL Level=LOW

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
	Unknown-01	17.02	620	UG/KG	J
000082-05-3	7H-Benz[de]anthracen-7-one	17.10	620	UG/KG	NJ
	Unknown-02	18.15	570	UG/KG	J
	Unknown-03	18.24	600	UG/KG	J

National Functional Guidelines Report #09

Lab KAP(KAP Technologies, Inc.) **SDG** E3P89 **Case** 43102 **Contract** EPW11031 **Region** 5 **DDTID** 166048 **SOW** SOM01.2

Tentatively Identified Compounds

BNA Sample=E3PA4 Location=SS-14 Matrix=SOIL Level=LOW

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
002381-21-7	Pyrene, 1-methyl-	16.81	780	UG/KG	NJ
1000110-40-2	1-(2-Aminobenzylidene)-1,2,3,4-tetrahydroacridine N-oxide	17.03	880	UG/KG	NJ
000479-79-8	11H-Benzo[a]fluoren-11-one	17.12	1000	UG/KG	NJ
	Unknown-01	17.82	770	UG/KG	J
	Unknown-02	18.17	770	UG/KG	J

National Functional Guidelines Report #09

Lab KAP(KAP Technologies, Inc.) SDG E3P89 Case 43102 Contract EPW11031 Region 5 DDTID 166048 SOW SOM01.2

Tentatively Identified Compounds

BNA Sample=E3PA9 Location=SB-01 Matrix=SOIL Level=LOW

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
000084-69-5	1,2-Benzenedicarboxylic acid, bis(2-methylpropyl) ester	14.63	330	UG/KG	NJ
	Unknown-01	17.60	300	UG/KG	J

National Functional Guidelines Report #09

Lab KAP(KAP Technologies, Inc.) **SDG** E3P89 **Case** 43102 **Contract** EPW11031 **Region** 5 **DDTID** 166048 **SOW** SOM01.2

Tentatively Identified Compounds

BNA Sample=E3PB0 Location=SB-02 Matrix=SOIL Level=LOW

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier

National Functional Guidelines Report #09

Lab KAP(KAP Technologies, Inc.) **SDG** E3P89 **Case** 43102 **Contract** EPW11031 **Region** 5 **DDTID** 166048 **SOW** SOM01.2

Tentatively Identified Compounds

BNA Sample=E3PB1 Location=SB-02D Matrix=SOIL Level=LOW

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
000057-10-3	n-Hexadecanoic acid	14.97	570	UG/KG	NJ
	Unknown-01	16.90	630	UG/KG	J
074685-29-3	9-Eicosene, (E)-	19.43	720	UG/KG	NJ
	Unknown-02	19.69	590	UG/KG	J
000083-47-6	.gamma.-Sitosterol	21.62	540	UG/KG	NJ

National Functional Guidelines Report #09

Lab KAP(KAP Technologies, Inc.) SDG E3P89 Case 43102 Contract EPW11031 Region 5 DDTID 166048 SOW SOM01.2

Tentatively Identified Compounds

BNA Sample=E3PB3 Location=SB-04 Matrix=SOIL Level=LOW

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
000084-69-5	1,2-Benzenedicarboxylic acid, bis(2-methylpropyl) ester	14.62	300	UG/KG	NJ
	Unknown-01	15.53	380	UG/KG	J

National Functional Guidelines Report #09

Lab KAP(KAP Technologies, Inc.) **SDG** E3P89 **Case** 43102 **Contract** EPW11031 **Region** 5 **DDTID** 166048 **SOW** SOM01.2

Tentatively Identified Compounds

BNA Sample=SBLK58 Location= Matrix=SOIL Level=LOW

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
	Unknown-01	18.64	130	UG/KG	J



USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Orgl

Case No: 43102
 DAS No: E3P89 L
 SDG No:

Date Shipped: 11/7/12
 Carrier Name: UPS
 Airbill: 1Z5490W42210082627
 Shipped to: KAP Technologies Inc.
 9391 Grogans Mill Rd.
 Suite-A2
 The Woodlands TX 77380
 (281) 367-0065

Chain of Custody Record	
Relinquished By	(Date / Time)
1. <i>John Spielberg</i>	11/7/12 - 1010
2.	
3.	
4.	

Sampler Signature: *John Spielberg*
 Received By: *Nicole Hooper*
 (Date / Time): 11/8/12 9:35

For Lab Use Only
 Lab Contract No: EPW11031
 Unit Price:
 Transfer To:
 Lab Contract No:
 Unit Price:

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E3P89	Surface Soil (0"-12")/ JOHN SPIELBERG	L/G	SVPEPCB (21)	51302001 (Ice Only) (1)	SS-01	11/6/12 - 1633	ME3P89	5-5299.01 (st etc)
E3P90	Surface Soil (0"-12")/ JOHN SPIELBERG	L/G	SVPEPCB (21)	51302003 (Ice Only) (1)	SS-02	11/5/12 - 1123	ME3P90	.02
E3P91	Surface Soil (0"-12")/ JOHN SPIELBERG	L/G	SVPEPCB (21)	51302005 (Ice Only) (1)	SS-02D	1123	ME3P91	.03
E3P92	Surface Soil (0"-12")/ JOHN SPIELBERG	L/G	SVPEPCB (21)	51302007 (Ice Only), 51302008 (Ice Only) (2)	SS-03	1223	ME3P92	.04
E3P93	Surface Soil (0"-12")/ JOHN SPIELBERG	L/G	SVPEPCB (21)	51302011 (Ice Only) (1)	SS-04	1410	ME3P93	.05
E3P94	Surface Soil (0"-12")/ JOHN SPIELBERG	L/G	SVPEPCB (21)	51302013 (Ice Only) (1)	SS-05	1514	ME3P94	.06
E3P95	Surface Soil (0"-12")/ JOHN SPIELBERG	L/G	SVPEPCB (21)	51302015 (Ice Only) (1)	SS-06	11/6/12 - 906	ME3P95	.07

Shipment for Case Complete? <input checked="" type="checkbox"/> Yes	Sample(s) to be used for laboratory QC: E3P92	Additional Sampler Signature(s): <i>John Spielberg</i>	Cooler Temperature Upon Receipt: 3.1°C	Chain of Custody Seal Number: 132741, 132742
Analysis Key: SVPEPCB = CLP TCL Semivolatiles and Pesticides/PC	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Custody Seal Intact? <input checked="" type="checkbox"/>	Shipment Iced? <input checked="" type="checkbox"/>

TR Number: 5-094688160-110212-0005

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USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Orig.

Case No: 43102
 DAS No:
 SDG No: E3P89 L

Date Shipped: 11/7/12 Carrier Name: UPS Airbill: 1Z5490W42210082627 Shipped to: KAP Technologies Inc. 9391 Grogans Mill Rd. Suite-A2 The Woodlands TX 77380 (281) 367-0065	Chain of Custody Record		Sampler Signature: <i>John Spielberg</i>	For Lab Use Only	
	Relinquished By (Date / Time)		Received By (Date / Time)	Lab Contract No: EPW11031	
	1. <i>John Spielberg 11/7/12 - 1010</i>			Unit Price:	
	2.			Transfer To:	
3.			Lab Contract No:		
4.			Unit Price:		

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E3P96	Surface Soil (0"-12")/ JOHN SPIELBERG	L/G	SVPEPCB (21)	51302017 (Ice Only) (1)	SS-07	11/6/12 - 830	ME3P96	S-5292.08
E3P97	Surface Soil (0"-12")/ JOHN SPIELBERG	L/G	SVPEPCB (21)	51302019 (Ice Only) (1)	SS-08	1100	ME3P97	.09
E3P98	Surface Soil (0"-12")/ JOHN SPIELBERG	L/G	SVPEPCB (21)	51302021 (Ice Only) (1)	SS-09	1000	ME3P98	.10
E3P99	Surface Soil (0"-12")/ JOHN SPIELBERG	L/G	SVPEPCB (21)	51302023 (Ice Only) (1)	SS-10	1223	ME3P99	.11
E3PA0	Surface Soil (0"-12")/ JOHN SPIELBERG	L/G	SVPEPCB (21)	51302025 (Ice Only) (1)	SS-11	1257	ME3PA0	.12
E3PA1	Surface Soil (0"-12")/ JOHN SPIELBERG	L/G	SVPEPCB (21)	51302027 (Ice Only) (1)	SS-12	1030	ME3PA1	.13
E3PA2	Surface Soil (0"-12")/ JOHN SPIELBERG	L/G	SVPEPCB (21)	51302029 (Ice Only) (1)	SS-12D	1030	ME3PA2	.14

Shipment for Case Complete? <input checked="" type="checkbox"/> <i>Yes</i>	Sample(s) to be used for laboratory QC: E3P92	Additional Sampler Signature(s): <i>John Spielberg</i>	Cooler Temperature Upon Receipt: 3.1°C	Chain of Custody Seal Number: 132741, 132742
Analysis Key:	Concentration: <u>L</u> = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, <u>Grab</u> = G	Custody Seal Intact? <input checked="" type="checkbox"/>	Shipment Iced? <input checked="" type="checkbox"/>

SVPEPCB = CLP TCL Semivolatiles and Pesticides/PC

TR Number: 5-094688160-110212-0005

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USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Orig

Case No: 43102
 DAS No:
 SDG No: **E3P89 L**

Date Shipped: **11/7/12**
 Carrier Name: **UPS**
 Airbill: **1Z5490W42210082627**
 Shipped to: **KAP Technologies Inc.**
9391 Grogans Mill Rd.
Suite-A2
The Woodlands TX 77380
(281) 367-0065

Chain of Custody Record		Sampler Signature:
Relinquished By	(Date / Time)	Received By
1 <i>John Spielberg</i>	<i>11/7/12-1010</i>	<i>John Spielberg</i>
2		
3		<i>Neel Hogue</i>
4		<i>11/8/12 9:35</i>

For Lab Use Only
 Lab Contract No: **EPW11031**
 Unit Price:
 Transfer To:
 Lab Contract No:
 Unit Price:

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E3PA3	Surface Soil (0"-12")/ JOHN SPIELBERG	L/G	SVPEPCB (21)	51302031 (Ice Only) (1)	SS-13	<i>11/6/12 - 1710</i>	ME3PA3	<i>S-5292.4615</i> <i>with 11/8/12</i>
E3PA4	Surface Soil (0"-12")/ JOHN SPIELBERG	L/G	SVPEPCB (21)	51302033 (Ice Only) (1)	SS-14	<i>1556</i>	ME3PA4	<i>↓ 16</i>
E3PA5	Surface Soil (0"-12")/ JOHN SPIELBERG	L/G	SVPEPCB (21)	51302035 (Ice Only) (1)	SS-15	<i>not collected</i> <i>JSS</i> <i>11/7/12</i>	ME3PA5	
E3PA6	Surface Soil (0"-12")/ JOHN SPIELBERG	L/G	SVPEPCB (21)	51302037 (Ice Only) (1)	SS-16		ME3PA6	
E3PA7	Surface Soil (0"-12")/ JOHN SPIELBERG	L/G	SVPEPCB (21)	51302039 (Ice Only) (1)	SS-17		ME3PA7	
E3PA8	Surface Soil (0"-12")/ JOHN SPIELBERG	L/G	SVPEPCB (21)	51302041 (Ice Only) (1)	SS-18		ME3PA8	

Shipment for Case Complete? <input checked="" type="checkbox"/> <i>Yes</i>	Sample(s) to be used for laboratory QC: E3P92	Additional Sampler Signature(s): <i>John Spielberg</i>	Cooler Temperature Upon Receipt: <i>3.1°C</i>	Chain of Custody Seal Number: <i>132741, 132742</i>
Analysis Key:	Concentration: <i>L = Low, M = Low/Medium, H = High</i>	Type/Designate: <i>Composite = C, Grab = G</i>	Custody Seal Intact? <input checked="" type="checkbox"/>	Shipment Iced? <input checked="" type="checkbox"/>

SVPEPCB = CLP TCL Semivolatiles and Pesticides/PC

TR Number: **5-094688160-110212-0005**

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USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Org 2

Case No: 43102
 DAS No:
 SDG No: **E3P89 L**

Date Shipped: *11/7/12*
 Carrier Name: UPS
 Airbill: 1Z5490W42210082636
 Shipped to: KAP Technologies Inc.
 9391 Grogans Mill Rd.
 Suite-A2
 The Woodlands TX 77380
 (281) 367-0065

Chain of Custody Record	
Relinquished By	(Date / Time)
<i>John Spielberg</i>	<i>11/7/12-945</i>

Sampler Signature: *John Spielberg*
 Received By: *Nucleo Hoque*
11/8/12 9:35

For Lab Use Only
 Lab Contract No: **EPW11031**
 Unit Price:
 Transfer To:
 Lab Contract No:
 Unit Price:

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E3PA9	Subsurface Soil (>12")/ JOHN SPIELBERG	L/G	SVPEPCB (21)	51302043 (Ice Only) (1)	SB-01	<i>11/5/12 - 1005</i>	ME3PA9	<i>S-5292.17</i>
E3PB0	Subsurface Soil (>12")/ JOHN SPIELBERG	L/G	SVPEPCB (21)	51302045 (Ice Only) (1)	SB-02	<i>1435</i>	ME3PB0	<i>.18</i>
E3PB1	Subsurface Soil (>12")/ JOHN SPIELBERG	L/G	SVPEPCB (21)	51302047 (Ice Only) (1)	SB-02D	<i>1435</i>	ME3PB1	<i>.19</i>
E3PB2	Subsurface Soil (>12")/ JOHN SPIELBERG	L/G	SVPEPCB (21)	51302049 (Ice Only), 51302050 (Ice Only) (2)	SB-03	<i>11/6/12 1450</i>	ME3PB2	
E3PB3	Subsurface Soil (>12")/ JOHN SPIELBERG	L/G	SVPEPCB (21)	51302053 (Ice Only) (1)	SB-04	<i>1300</i>	ME3PB3	<i>S-5292.20</i>
E3PB4	Subsurface Soil (>12")/ JOHN SPIELBERG	L/G	SVPEPCB (21)	51302055 (Ice Only) (1)	SB-05	<i>11/5/12 1350</i>	ME3PB4	
E3PB5	Subsurface Soil (>12")/ JOHN SPIELBERG	L/G	SVPEPCB (21)	51302057 (Ice Only) (1)	SB-06	<i>1145</i>	ME3PB5	

ORIGINAL
 Case: *43102* SDG: *E3P89*
 Episode: *S-5292* Initl/Date: *11/16/12*

Shipment of Case Complete: <input checked="" type="checkbox"/>	Sample(s) to be used for laboratory QC: E3PB2	Additional Sampler Signature(s): <i>John Spielberg</i>	Cooler Temperature Upon Receipt: <i>2.6°C</i>	Chain of Custody Seal Number: 132743, 132744
Analysis Key: SVPEPCB = CLP TCL Semivolatiles and Pesticides/PC	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C , Grab = G	Custody Seal Intact? <input checked="" type="checkbox"/>	Shipment Iced? <input checked="" type="checkbox"/>

TR Number: **5-094688160-110212-0006**

LABORATORY COPY

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY ~ REGION V

ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Sample Delivery Group: E3P89 CERCLIS No: TBA
Case No: 43102 Site Name/Location: CitH Zamenack Operations (MI)
Contractor or EPA Lab: Kap Technologies Data User: MDEB
No. of Samples: 20 Date Sampled or Date Received: 29 NOV 2012

Have Chain-of-Custody records been received? Yes No
Have traffic reports or packing lists been received? Yes No
If no, are traffic reports or packing list numbers written on the Chain-of-Custody Record?
Yes No
If no, which traffic report or packing list numbers are missing?

Are basic data forms in? Yes No
No of samples claimed: 20 No. of samples received: _____

Received by: Pat Joepner Date: 29 NOV 2012

Received by LSSS: Pat Joepner Date: 3 Nov 2012

Review started: 12-18-12 Reviewer Signature: Stephanie Tobin

Total time spent on review: 34 5 hrs Date review completed: 12-26-12

Copied by: A. C. Harvey Date: January 2, 2013

Mailed to user by: Pat Joepner Date: 3 JAN 2013

DATA USER:
Please fill in the blanks below and return this form to:
Sylvia Griffin, Data Mgmt. Coordinator, Region V, ML-10C

Data received by: _____ Date: _____
Data review received by: _____ Date: _____

- Inorganic Data Complete Suitable for Intended Purpose T if OK
- Organic Data Complete Suitable for Intended Purpose T if OK
- Dioxin data Complete Suitable for Intended Purpose T if OK
- SAS Data Complete Suitable for Intended Purpose T if OK

PROBLEMS: Please indicate reasons why data are not suitable for your uses.

Received by Data Mgmt. Coordinator for Files. Date: _____

ESAT Controlled Number: ESAT 5.417.00339 - pf. 2 JAN 2013

DATE: January 2, 2013

Michigan Department of Environmental Quality
MDEQ - RRD Superfund
Attn: Mr. Joe Walczak
525 W. Allegan
Constitution Hall, 4th Floor, North
P.O. Box 30242
Lansing, MI 48909-7742

Site Name: C & H Tamarack Operations (MI) - level 3 data validation

<u>Case</u>	<u>Lab</u>	<u>Samples</u>	<u>SDG</u>	<u>Matrix</u>
43102	KAP Technologies	8	E3PB2	soil

Analysis: semivolatiles, pesticides, aroclor

Upon receipt of data, please check each package for completeness and note any missing deliverables below.

PLEASE!!!! Send this form back to Sylvia Griffin, Data Management Coordinator after filling in the blanks below.

Data Received by: _____ Date: _____

PROBLEMS:

Please indicate if data is complete, and note if there are any deliverables missing from the cases noted above.

Received by Data Management Coordinator, CRL for file.

Signature: _____ Date: _____

FROM: **U.S. EPA - Region 5**
Central Regional Laboratory
536 S. Clark, 10th Floor
Chicago, IL 60605

Sent By: Pat A. Joyner
Data Coordinator
ESAT Region 5 **TechLaw Inc.**

RECEIVED

JAN 7 2013

SUPERFUND

ESAT5.416.00168
ack
1-2-2013

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
SUPERFUND DIVISION

DATE:

SUBJECT: Review of Data
Received for Review on: 29 November 2012

FROM: Timothy Prendiville, Supervisor (SR-6J)
Superfund Contract Management Section

TO: Data User: MDEQ
Email Address: walczakj@michigan.gov

Level 3 Data Validation for EDM EXES database

We have reviewed the data for the following case:

SITE Name: C & H Tamarack Operations (MI)

Case Number: 43102

SDG Number: E3PB2

Number and Type of Samples: 8 Soil Samples (SVOA, Pesticides, Aroclor)

Sample Numbers: E3PB2, E3PB4, E3PB5, E3PB7-E3PB9, E3PC0, E3PC1

Laboratory: KAP Technologies, Inc

Hrs for Review:

Following are our findings:

CC: Howard Pham
Region 5 TPO
Mail Code: SA-5J

Case Number: 43102
Site Name: C & H Tamarack Operations (MI)

Page 2 of 13
SDG Number: E3PB2
Laboratory: KAP Technologies, Inc

Below is a summary of the out-of-control audits and the possible effects on the data for this case:

Eight (8) soil samples labeled E3PB2, E3PB4, E3PB5, E3PB7-E3PB9, E3PC0, and E3PC1, were shipped to KAP Technologies, Inc located in The Woodlands, TX. All samples were collected on 11/05 and 11/06/2012 and received on 11/08/2012 intact and properly cooled.

All samples were analyzed for the SVOA, pesticide and aroclor lists of compounds. All samples were analyzed according to CLP SOW SOM01.2 (6/2007) and reviewed according to the NFG for SOM01.2 and the SOP for ESAT 5/TechLaw Validation of Contract Laboratory Program Organic Data (Version 2.6.2).

Sample E3PB2 was designated by the samplers to be used for laboratory QC, i.e. MS/MSD analyses.

No samples were identified as field blanks or field duplicates.

1. HOLDING TIME

No Problems Found.

2. GC/MS TUNING AND GC INSTRUMENT PERFORMANCE

No Problems Found.

3. CALIBRATION

The following semivolatile samples are associated with an opening CCV percent difference (%D) outside criteria. Detected compounds are qualified "J". Non-detected compounds are qualified "UJ".

E3PB2MS, E3PB2MSD, E3PB7DL
4-Methylphenol, N-Nitroso-di-n-propylamine, Pentachlorophenol

The following semivolatile samples are associated with a continuing calibration in which a surrogate/DMC exceeded percent difference (%D) criteria. Detected and non-detected compounds are not qualified.

E3PB2MS, E3PB2MSD, E3PB7DL
4-Methylphenol-d8

4. BLANKS

The following semivolatile samples have TIC concentrations reported less than 5X the associated method blank concentration. Detected compounds are re-qualified "U" and deleted from the validated TIC report.

Unknown @ 19.47
E3PB9

5. DEUTERATED MONITORING COMPOUND AND SURROGATE RECOVERY

The following pesticide samples have surrogate percent recoveries which exceed the upper limit of the criteria window on both columns. Detected compounds are qualified "J". Non-detected compounds are not qualified.

E3PB7
Decachlorobiphenyl

The following aroclor samples have surrogate percent recoveries which exceed the upper limit of the criteria window on only one GC column. The aroclors were not detected. Non-detected compounds are not qualified because the lowest of the two values is reported.

E3PB4
Tetrachloro-m-xylene

6A. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Sample E3PB2 was designated by the samplers to be used for laboratory QC, i.e. MS/MSD analyses.

The following semivolatile matrix spike/matrix spike duplicate samples have percent recoveries greater than the upper acceptance criteria. The compounds were not detected in the unspiked sample. Non-detected compounds in the unspiked sample (E3PB2) are not qualified.

E3PB2MS, E3PB2MSD
Phenol, 2-Chlorophenol, 4-Chloro-3-methylphenol, Pentachlorophenol

The following aroclor samples have a percent recoveries greater than the upper acceptance criteria on only 1 GC column. Aroclors were not detected in the unspiked sample (E3PB2). Non-detected aroclors are not qualified as the lower of the 2 possible values (i.e. the reported value) is within the acceptance range.

E3PB2MS, E3PB2MSD
Aroclor-1016

6B. LABORATORY CONTROL SAMPLE

No Problems Found.

7. FIELD BLANK AND FIELD DUPLICATE

No samples were identified as field blanks or field duplicates.

8. INTERNAL STANDARDS

The following semivolatile samples have internal standard area counts that are outside the primary lower limit criteria but greater than the expanded lower limit (20% of 12-Hr Std). The compounds were not detected in the samples. Non-detected compounds are qualified "UJ".

E3PB7, E3PC0
Benzaldehyde, Phenol, bis(2-chloroethyl)ether, 2-Chlorophenol, 2-Methylphenol, 2,2'-oxybis-(1-chloro-propane), Acetophenone, 4-Methylphenol, N-Nitroso-di-n-propylamine, Hexachloroethane

E3PB9, E3PB9RE

Benzaldehyde, Phenol, bis(2-chloroethyl)ether, 2-Chlorophenol, 2-Methylphenol, 2,2'-oxybis-(1-chloro-propane), Acetophenone, 4-Methylphenol, N-Nitroso-di-n-propylamine, Hexachloroethane, Nitrobenzene, Isophorone, 2-Nitrophenol, 2,4-Dimethylphenol, bis(2-chloroethoxy)methane, 2,4-Dichlorophenol, Naphthalene, 4-Chloroaniline, Hexachlorobutadiene, Caprolactam, 4-Chloro-3-methylphenol, 2-Methylnaphthalene

E3CP0RE, E3PC1, E3CP1RE

Benzaldehyde, Phenol, bis(2-chloroethyl)ether, 2-Chlorophenol, 2-Methylphenol, 2,2'-oxybis-(1-chloro-propane), Acetophenone, 4-Methylphenol, N-Nitroso-di-n-propylamine, Hexachloroethane, Nitrobenzene, Isophorone, 2-Nitrophenol, 2,4-Dimethylphenol, bis(2-chloroethoxy)methane, 2,4-Dichlorophenol, Naphthalene, 4-Chloroaniline, Hexachlorobutadiene, Caprolactam, 4-Chloro-3-methylphenol, 2-Methylnaphthalene, Hexachlorocyclopentadiene, 2,4,6-Trichlorophenol, 2,4,5-Trichlorophenol, 1,1'-Biphenyl, 2-Chloronaphthalene, 2-Nitroaniline, Dimethylphthalate, 2,6-Dinitrotoluene, Acenaphthylene, 3-Nitroaniline, Acenaphthene, 2,4-Dinitrophenol, 4-Nitrophenol, Dibenzofuran, 2,4-Dinitrotoluene, Diethylphthalate, Fluorene, 4-Chlorophenyl-phenylether, 4-Nitroaniline, 1,2,4,5-Tetrachlorobenzene, 2,3,4,6-Tetrachlorophenol

9. COMPOUND IDENTIFICATION

After reviewing the mass spectra and chromatograms it appears that all SVOA, pesticide and aroclor compounds were properly identified.

10. COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS

The following semivolatile samples have analyte concentrations below the quantitation limit (CRQL). Detected compounds are qualified "J".

E3PB2

Fluoranthrene, Pyrene, Benzo(a)anthracene, Chrysene

E3PB2MS, E3PB2MSD

Benzo(a)anthracene, Chrysene, Bis(2-ethylhexyl)phthalate, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Benzo(g,h,i)perylene

E3PB4

Diethylphthalate, Di-n-butylphthalate, Fluoranthrene, Pyrene, Chrysene, Bis(2-ethylhexyl)phthalate, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene

Case Number: 43102
Site Name: C & H Tamarack Operations (MI)

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SDG Number: E3PB2
Laboratory: KAP Technologies, Inc

E3PB5
Bis(2-ethylhexyl)phthalate

E3PB7
Di-n-butylphthalate

E3PB7DL
2-Methylnaphthalene, Acenaphthylene

E3PB8
Fluoranthrene, Pyrene

E3PB9
Acenaphthylene, Phenanthrene, Di-n-butylphthalate, Dibenzo(a,h)anthracene

E3PB9RE
Phenanthrene, Di-n-butylphthalate, Dibenzo(a,h)anthracene

E3PC0
Benzo(a)anthracene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene,
Indeno(1,2,3-cd)pyrene, Benzo(g,h,i)perylene

E3PC0RE
Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene,
Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Benzo(g,h,i)perylene

A library search indicates a match at or above 85% for a TIC compound in the semivolatile sample. Detected compounds are qualified "NJ".

Case Number: 43102
 Site Name: C & H Tamarack Operations (MI)

SDG Number: E3PB2
 Laboratory: KAP Technologies, Inc

Cas No. 82-05-3	7H-Benz[de]anthracen-7-one;
Cas No. 84-15-1	o-Terphenyl;
Cas No. 90-12-0	Naphthalene, 1-methyl-;
Cas No. 192-97-2	Benzo[e]pyrene;
Cas No. 205-25-4	7H-Benzo[c]carbazole;
Cas No. 217-59-4	Triphenylene;
Cas No. 239-01-0	11H-Benzo[a]carbazole;
Cas No. 243-17-4	11H-Benzo[b]fluorine;
Cas No. 612-78-2	2,2'-Binaphthalene;
Cas No. 643-58-3	1,1'-Biphenyl, 2-methyl-;
Cas No. 829-26-5	Naphthalene, 2,3,6-trimethyl-;
Cas No. 1705-84-6	Triphenylene, 2-methyl-;
Cas No. 2381-21-7	Pyrene, 1-methyl-;
Cas No. 25732-74-5	Cyclopenta(cd)pyrene, 3,4-dihydro-
Cas No. 33543-31-6	Fluoranthene, 2-methyl-;
Cas No. 35953-53-8	2-Tetradecene, (E)-
E3PB7	
Cas No. 84-69-5	1,2-Benzenedicarboxylic acid, bis(2-methylpropyl) ester
E3PB9	
Cas No. 191-24-2	Benzo[ghi]perylene;
Cas No. 848-62-4	Pregnan-20-one, (5.alpha.)-
E3PB8	
Cas No. 191-26-4	Dibenzo[def,mno]chrysene;
Cas No. 213-46-7	1,2:7,8-Dibenzophenanthrene;
Cas No. 215-58-7	Benzo[b]triphenylene
E3PB7, E3PB7DL	
Cas No. 192-65-4	1,2:4,5-Dibenzopyrene;
Cas No. 207-93-2	Dinaphtho[1,2-b:1',2'-d]furan;
Cas No. 220-97-3	11H-Indeno[2,1-a]phenanthrene;
Cas No. 24471-47-4	Perylene, 3-methyl-
E3PB7DL	
Cas No. 205-99-2	Benz[e]acephenanthrylene ~ Benzo(b)fluoranthene (TCL)
E3PB2, E3PB7DL	
Cas No. 1746-11-8	Benzofuran, 2,3-dihydro-2-methyl-
E3CP1RE	
Cas No. 2541-69-7	Benz[a]anthracene, 7-methyl-
E3PB9, E3PB9RE	

Case Number: 43102
Site Name: C & H Tamarack Operations (MI)

SDG Number: E3PB2
Laboratory: KAP Technologies, Inc

Cas No. 3642-14-6 Cyclobutene, bis(1-methylethylidene)-;
Cas No. 21195-59-5 1,3,8-p-Menthatriene
E3CP1

Cas No. 3697-24-3 Chrysene, 6-methyl-;
Cas No. 17750-93-5 7,8,9,10-Tetrahydrobenzo[a]pyrene;
Cas No. 64401-21-4 Pyrene, 1,3-dimethyl-;
Cas No. 1000210-28-9 7-Isopropyl-1,1,4a-trimethyl-1,2,3,4,4a,9,10,10a-octahydrophenanthrene
E3PB4

Cas No. 18435-45-5 1-Nonadecene
E3PB9RE

A library search indicates a match below 85% for a TIC compound in the semivolatile sample.
Detected compounds are qualified "J".

Unknown @ 14.63
E3PB2, E3PB4, E3PB9RE

Unknown @ 14.99; Unknown @ 15.21; Unknown @ 16.22; Unknown @ 16.50;
Unknown @ 16.79; Unknown @ 17.32; Unknown @ 17.66; Unknown @ 17.82
E3PB4

Unknown @ 15.32
E3PB4, E3PB9, E3PC1RE

Unknown @ 15.44
E3PB4, E3PB9, E3PC1

Unknown @ 15.50
E3PB4, E3PB9RE, E3PC0, E3PC0RE

Unknown @ 15.57
E3PC1, E3PC1RE

Unknown @ 15.67
E3PB5, E3PC1, E3PC1RE

Unknown @ 16.98; Unknown @ 21.11
E3PB4, E3PB9, E3PB9RE

Unknown @ 17.07
E3PC1RE

Case Number: 43102
Site Name: C & H Tamarack Operations (MI)

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SDG Number: E3PB2
Laboratory: KAP Technologies, Inc

Unknown @ 17.45
E3PB4, E3PB9RE

Unknown @ 17.76
E3PB4, E3PB7, E3PC0RE

Unknown @ 17.94
E3PB4, E3PB7

Unknown @ 18.01; Unknown @ 18.63; Unknown @ 19.32; Unknown @ 20.68
E3PB9

Unknown @ 18.13
E3PB4, E3PB7DL, E3PB9

Unknown @ 18.20
E3PB7, E3PB7DL, E3PB9RE

Unknown @ 18.52
E3PB9, E3PB9RE, E3PC0, E3PC1RE

Unknown @ 18.74; Unknown @ 19.40; Unknown @ 20.83; Unknown @ 21.16;
Unknown @ 21.87; Unknown @ 24.28
E3PB9RE

Unknown @ 19.19; Unknown @ 19.37; Unknown @ 19.56
E3PB4, E3PB7, E3PB7DL, E3PB9, E3PB9RE

Unknown @ 19.50
SBLK61

Unknown @ 19.77; Unknown @ 21.23; Unknown @ 21.83; Unknown @ 22.01;
Unknown @ 22.82
E3PB9, E3PB9RE

Unknown @ 19.86; Unknown @ 20.43
E3PB7

Unknown @ 20.01; Unknown @ 22.40; Unknown @ 22.64; Unknown @ 22.95
E3PB7DL

Unknown @ 20.13
E3PB4, E3PB7, E3PB9, E3PB9RE, E3PC0RE

Case Number: 43102
Site Name: C & H Tamarack Operations (MI)

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SDG Number: E3PB2
Laboratory: KAP Technologies, Inc

Unknown @ 20.33
E3PB4, E3PB7, E3PB9, E3PB9RE

Unknown @ 20.54
E3PB7DL, E3PB9

The following pesticide samples have analyte concentrations below the quantitation limit (CRQL). Detected compounds are qualified "J".

E3PB4
Methoxychlor

PLCS78
gamma-BHC (Lindane), Heptachlor epoxide, Dieldrin, 4,4'-DDE, Endrin,
Endosulfan sulfate, gamma-Chlordane

The relative percent difference between analyte results for the following pesticide samples is greater than 25%. The concentration is $\geq 25\%$ CRQL. Detected compounds are qualified "J".

E3PB2MS, E3PB2MSD
Dieldrin, Endrin, 4,4'-DDT

E3PB4
Methoxychlor

E3PB7
beta-BHC

The following aroclor samples have analyte concentrations below the quantitation limit (CRQL). Detected compounds are qualified "J".

ALCS77
Aroclor-1260

The relative percent difference between analyte results for the following aroclor samples is greater than 25%. The concentration is $\geq 25\%$ CRQL. Detected compounds are qualified "J".

E3PB2MS
Aroclor-1016

E3PB2MSD
Aroclor-1016, Aroclor-1260

Case Number: 43102
 Site Name: C & H Tamarack Operations (MI)

SDG Number: E3PB2
 Laboratory: KAP Technologies, Inc

11. SYSTEM PERFORMANCE

GC/MS baseline indicated acceptable performance. The GC baselines for the pesticide and aroclor analyses were acceptable.

12. ADDITIONAL INFORMATION

The following semivolatile samples have compound concentrations which exceed the instruments calibration range. The detected results are qualified "J". The results from the diluted analyses should be considered the final concentrations for the affected compounds.

SB-08

E3PB7
 Phenanthrene, Fluoranthene, Pyrene

JST 3/21/13

The following semivolatile samples had semivolatile target compounds reported as semivolatile TICs. If the target compound was not detected during the analysis the CRQL is qualified "UJ" as a possible false negative. If the target compound was detected during analysis the concentration is qualified "J" for possibly being under-reported.

Benzo(b)fluoranthene, CAS No. 205-99-2
 E3PB2, E3PB7DL

The following alkanes were removed from the Laboratory's Semivolatile TIC Form Is and qualified as non-reportable in the EXES reports.

Cas No. 112-95-8 Eicosane;
 Cas No. 593-45-3 Octadecane
 E3PB4

The following semivolatile samples have a compound identified by CAS No. in some samples and as an Unknown TIC in other samples. A comparison of the chromatograms demonstrated that the same compound was present in the respective samples. Copies of the chromatograms are included with the hardcopy validation report.

Cas No. 84-69-5 1,2-Benzenedicarboxylic acid, bis(2-methylpropyl) ester
 E3PB9

Versus
 Unknown @ 14.63
 E3PB2, E3PB4, E3PB9RE

TICs with no CAS Numbers were not reported in the EXES Sample Summary Report for the SVOA fraction. Please refer to Word document "43102 SDG E3PB2 TIC" for the validated TIC results.

Case Number: 43102
Site Name: C & H Tamarack Operations (MI)

SDG Number: E3PB2
Laboratory: KAP Technologies, Inc

The "P" flags are missing on the Laboratory's Form Is for the following aroclor samples.

E3PB2MS, E3PB2MSD
Aroclor-1016

E3PB2MSD
Aroclor-1260

PLCS79 and ALCS77 were not reported in the EXES Sample Summary Report for the pesticide and aroclor fractions.

CADRE Data Qualifier Sheet

<u>Qualifiers</u>	<u>Data Qualifier Definitions</u>
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the action limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification.
NJ	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification and the associated numerical value represents its approximate concentration.
R	The data are unusable. (The compound may or may not be present.)

Sample Summary Report

Case No:	43102	Contract:	EPW11031	SDG No:	E3PB2	Lab Code:	KAP
Sample Number:	ABLK77	Method:	Aroclor	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:		pH:		Sample Date:		Sample Time:	
% Moisture :	0.00			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	33	UG/KG	1.0	U	U	Yes	
Aroclor-1221	33	UG/KG	1.0	U	U	Yes	
Aroclor-1232	33	UG/KG	1.0	U	U	Yes	
Aroclor-1242	33	UG/KG	1.0	U	U	Yes	
Aroclor-1248	33	UG/KG	1.0	U	U	Yes	
Aroclor-1254	33	UG/KG	1.0	U	U	Yes	
Aroclor-1260	33	UG/KG	1.0	U	U	Yes	
Aroclor-1262	33	UG/KG	1.0	U	U	Yes	
Aroclor-1268	33	UG/KG	1.0	U	U	Yes	

Case No:	43102	Contract:	EPW11031	SDG No:	E3PB2	Lab Code:	KAP
Sample Number:	E3PB2	Method:	Pest	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:	SB-03	pH:	8.2	Sample Date:	11/06/2012	Sample Time:	14:50:00
% Moisture :	7.00			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
alpha-BHC	1.8	UG/KG	1.0	U	U	Yes	
beta-BHC	1.8	UG/KG	1.0	U	U	Yes	
delta-BHC	1.8	UG/KG	1.0	U	U	Yes	
gamma-BHC (Lindane)	1.8	UG/KG	1.0	U	U	Yes	
Heptachlor	1.8	UG/KG	1.0	U	U	Yes	
Aldrin	1.8	UG/KG	1.0	U	U	Yes	
Heptachlor epoxide	1.8	UG/KG	1.0	U	U	Yes	
Endosulfan I	1.8	UG/KG	1.0	U	U	Yes	
Dieldrin	3.5	UG/KG	1.0	U	U	Yes	
4,4'-DDE	3.5	UG/KG	1.0	U	U	Yes	
Endrin	3.5	UG/KG	1.0	U	U	Yes	
Endosulfan II	3.5	UG/KG	1.0	U	U	Yes	
4,4'-DDD	3.5	UG/KG	1.0	U	U	Yes	
Endosulfan sulfate	3.5	UG/KG	1.0	U	U	Yes	
4,4'-DDT	3.5	UG/KG	1.0	U	U	Yes	
Methoxychlor	18	UG/KG	1.0	U	U	Yes	
Endrin ketone	3.5	UG/KG	1.0	U	U	Yes	
Endrin aldehyde	3.5	UG/KG	1.0	U	U	Yes	
alpha-Chlordane	1.8	UG/KG	1.0	U	U	Yes	
gamma- Chlordane	1.8	UG/KG	1.0	U	U	Yes	
Toxaphene	180	UG/KG	1.0	U	U	Yes	

Case No:	43102	Contract:	EPW11031	SDG No:	E3PB2	Lab Code:	KAP
Sample Number:	E3PB2	Method:	BNA	Matrix:	SOIL	MA Number:	DEFAULT
Sample Location:	SB-03	pH:	8.2	Sample Date:	11/06/2012	Sample Time:	14:50:00
% Moisture :	7.0			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	180	UG/KG	1.0	U	U	Yes	
Phenol	180	UG/KG	1.0	U	U	Yes	
Bis(2-chloroethyl)ether	180	UG/KG	1.0	U	U	Yes	
2-Chlorophenol	180	UG/KG	1.0	U	U	Yes	
2-Methylphenol	180	UG/KG	1.0	U	U	Yes	
2,2'-Oxybis(1-chloropropane)	180	UG/KG	1.0	U	U	Yes	
Acetophenone	180	UG/KG	1.0	U	U	Yes	
4-Methylphenol	180	UG/KG	1.0	U	U	Yes	
N-Nitroso-di-n-propylamine	180	UG/KG	1.0	U	U	Yes	
Hexachloroethane	180	UG/KG	1.0	U	U	Yes	
Nitrobenzene	180	UG/KG	1.0	U	U	Yes	
Isophorone	180	UG/KG	1.0	U	U	Yes	
2-Nitrophenol	180	UG/KG	1.0	U	U	Yes	
2,4-Dimethylphenol	180	UG/KG	1.0	U	U	Yes	
Bis(2-chloroethoxy)methane	180	UG/KG	1.0	U	U	Yes	
2,4-Dichlorophenol	180	UG/KG	1.0	U	U	Yes	
Naphthalene	180	UG/KG	1.0	U	U	Yes	
4-Chloroaniline	180	UG/KG	1.0	U	U	Yes	
Hexachlorobutadiene	180	UG/KG	1.0	U	U	Yes	
Caprolactam	180	UG/KG	1.0	U	U	Yes	
4-Chloro-3-methylphenol	180	UG/KG	1.0	U	U	Yes	
2-Methylnaphthalene	180	UG/KG	1.0	U	U	Yes	
Hexachlorocyclopentadiene	180	UG/KG	1.0	U	U	Yes	
2,4,6-Trichlorophenol	180	UG/KG	1.0	U	U	Yes	
2,4,5-Trichlorophenol	180	UG/KG	1.0	U	U	Yes	
1,1'-Biphenyl	180	UG/KG	1.0	U	U	Yes	
2-Chloronaphthalene	180	UG/KG	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	350	UG/KG	1.0	U	U	Yes	
Dimethylphthalate	180	UG/KG	1.0	U	U	Yes	
2,6-Dinitrotoluene	180	UG/KG	1.0	U	U	Yes	
Acenaphthylene	180	UG/KG	1.0	U	U	Yes	
3-Nitroaniline	350	UG/KG	1.0	U	U	Yes	
Acenaphthene	180	UG/KG	1.0	U	U	Yes	
2,4-Dinitrophenol	350	UG/KG	1.0	U	U	Yes	
4-Nitrophenol	350	UG/KG	1.0	U	U	Yes	
Dibenzofuran	180	UG/KG	1.0	U	U	Yes	
2,4-Dinitrotoluene	180	UG/KG	1.0	U	U	Yes	
Diethylphthalate	180	UG/KG	1.0	U	U	Yes	
Fluorene	180	UG/KG	1.0	U	U	Yes	
4-Chlorophenylphenylether	180	UG/KG	1.0	U	U	Yes	
4-Nitroaniline	350	UG/KG	1.0	U	U	Yes	
4,6-Dinitro-2-methylphenol	350	UG/KG	1.0	U	U	Yes	
N-Nitrosodiphenylamine	180	UG/KG	1.0	U	U	Yes	
1,2,4,5-Tetrachlorobenzene	180	UG/KG	1.0	U	U	Yes	
4-Bromophenylphenylether	180	UG/KG	1.0	U	U	Yes	
Hexachlorobenzene	180	UG/KG	1.0	U	U	Yes	
Atrazine	180	UG/KG	1.0	U	U	Yes	
Pentachlorophenol	350	UG/KG	1.0	U	U	Yes	
Phenanthrene	180	UG/KG	1.0	U	U	Yes	
Anthracene	180	UG/KG	1.0	U	U	Yes	
Carbazole	180	UG/KG	1.0	U	U	Yes	
Di-n-butylphthalate	180	UG/KG	1.0	U	U	Yes	
Fluoranthene	160	UG/KG	1.0	J	J	Yes	
Pyrene	120	UG/KG	1.0	J	J	Yes	
Butylbenzylphthalate	180	UG/KG	1.0	U	U	Yes	
3,3'-Dichlorobenzidine	180	UG/KG	1.0	U	U	Yes	
Benzo(a)anthracene	77	UG/KG	1.0	J	J	Yes	
Chrysene	92	UG/KG	1.0	J	J	Yes	
Bis(2-ethylhexyl)	180	UG/KG	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	180	UG/KG	1.0	U	U	Yes	
Di-n-octylphthalate	180	UG/KG	1.0	U	U	Yes	
Benzo(b)fluoranthene	180	UG/KG	1.0	U	UJ	Yes	
Benzo(k)fluoranthene	180	UG/KG	1.0	U	U	Yes	
Benzo(a)pyrene	180	UG/KG	1.0	U	U	Yes	
Indeno(1,2,3-cd)pyrene	180	UG/KG	1.0	U	U	Yes	
Dibenzo(a,h)anthracene	180	UG/KG	1.0	U	U	Yes	
Benzo(g,h,i)perylene	180	UG/KG	1.0	U	U	Yes	
2,3,4,6-Tetrachlorophenol	180	UG/KG	1.0	U	U	Yes	
Benz[e]acephenanthrylene			1.0	NJ		Yes	

Case No:	43102	Contract:	EPW11031	SDG No:	E3PB2	Lab Code:	KAP
Sample Number:	E3PB2	Method:	Aroclor	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:	SB-03	pH:	8.2	Sample Date:	11/06/2012	Sample Time:	14:50:00
% Moisture :	7.0			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	35	UG/KG	1.0	U	U	Yes	
Aroclor-1221	35	UG/KG	1.0	U	U	Yes	
Aroclor-1232	35	UG/KG	1.0	U	U	Yes	
Aroclor-1242	35	UG/KG	1.0	U	U	Yes	
Aroclor-1248	35	UG/KG	1.0	U	U	Yes	
Aroclor-1254	35	UG/KG	1.0	U	U	Yes	
Aroclor-1260	35	UG/KG	1.0	U	U	Yes	
Aroclor-1262	35	UG/KG	1.0	U	U	Yes	
Aroclor-1268	35	UG/KG	1.0	U	U	Yes	

Case No:	43102	Contract:	EPW11031	SDG No:	E3PB2	Lab Code:	KAP
Sample Number:	E3PB2MS	Method:	Pest	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:		pH:	8.2	Sample Date:	11/06/2012	Sample Time:	14:50:00
% Moisture :	7.00			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
alpha-BHC	1.8	UG/KG	1.0	U	U	Yes	
gamma-BHC (Lindane)	14	UG/KG	1.0			Yes	
beta-BHC	1.8	UG/KG	1.0	U	U	Yes	
Heptachlor	13	UG/KG	1.0			Yes	
Aldrin	12	UG/KG	1.0			Yes	
delta-BHC	1.8	UG/KG	1.0	U	U	Yes	
Dieldrin	21	UG/KG	1.0	P	J	Yes	
Endrin	21	UG/KG	1.0	P	J	Yes	
4,4'-DDT	16	UG/KG	1.0	P	J	Yes	
Heptachlor epoxide	1.8	UG/KG	1.0	U	U	Yes	
Endosulfan I	1.8	UG/KG	1.0	U	U	Yes	
4,4'-DDE	3.5	UG/KG	1.0	U	U	Yes	
Endosulfan II	3.5	UG/KG	1.0	U	U	Yes	
4,4'-DDD	3.5	UG/KG	1.0	U	U	Yes	
Endosulfan sulfate	3.5	UG/KG	1.0	U	U	Yes	
Methoxychlor	18	UG/KG	1.0	U	U	Yes	
Endrin ketone	3.5	UG/KG	1.0	U	U	Yes	
Endrin aldehyde	3.5	UG/KG	1.0	U	U	Yes	
alpha-Chlordane	1.8	UG/KG	1.0	U	U	Yes	
gamma- Chlordane	1.8	UG/KG	1.0	U	U	Yes	
Toxaphene	180	UG/KG	1.0	U	U	Yes	

Case No:	43102	Contract:	EPW11031	SDG No:	E3PB2	Lab Code:	KAP
Sample Number:	E3PB2MS	Method:	Aroclor	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:		pH:	8.2	Sample Date:	11/06/2012	Sample Time:	14:50:00
% Moisture :	7.0			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	120	UG/KG	1.0	P	J	Yes	
Aroclor-1221	35	UG/KG	1.0	U	U	Yes	
Aroclor-1260	95	UG/KG	1.0			Yes	
Aroclor-1232	35	UG/KG	1.0	U	U	Yes	
Aroclor-1242	35	UG/KG	1.0	U	U	Yes	
Aroclor-1248	35	UG/KG	1.0	U	U	Yes	
Aroclor-1254	35	UG/KG	1.0	U	U	Yes	
Aroclor-1262	35	UG/KG	1.0	U	U	Yes	
Aroclor-1268	35	UG/KG	1.0	U	U	Yes	

Case No:	43102	Contract:	EPW11031	SDG No:	E3PB2	Lab Code:	KAP
Sample Number:	E3PB2MS	Method:	BNA	Matrix:	SOIL	MA Number:	DEFAULT
Sample Location:	SB-03	pH:	8.2	Sample Date:	11/06/2012	Sample Time:	14:50:00
% Moisture :	7.0			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Phenol	1700	UG/KG	1.0			Yes	
Benzaldehyde	180	UG/KG	1.0	U	U	Yes	
2-Chlorophenol	1500	UG/KG	1.0			Yes	
Bis(2-chloroethyl)ether	180	UG/KG	1.0	U	U	Yes	
N-Nitroso-di-n-propylamine	1000	UG/KG	1.0		J	Yes	
4-Chloro-3-methylphenol	1800	UG/KG	1.0			Yes	
Acenaphthene	840	UG/KG	1.0			Yes	
2-Methylphenol	180	UG/KG	1.0	U	U	Yes	
4-Nitrophenol	1500	UG/KG	1.0			Yes	
2,2'-Oxybis(1-chloropropane)	180	UG/KG	1.0	U	U	Yes	
2,4-Dinitrotoluene	1000	UG/KG	1.0			Yes	
Acetophenone	180	UG/KG	1.0	U	U	Yes	
Pentachlorophenol	1700	UG/KG	1.0		J	Yes	
4-Methylphenol	180	UG/KG	1.0	U	UJ	Yes	
Pyrene	970	UG/KG	1.0			Yes	
Hexachloroethane	180	UG/KG	1.0	U	U	Yes	
Nitrobenzene	180	UG/KG	1.0	U	U	Yes	
Isophorone	180	UG/KG	1.0	U	U	Yes	
2-Nitrophenol	180	UG/KG	1.0	U	U	Yes	
2,4-Dimethylphenol	180	UG/KG	1.0	U	U	Yes	
Bis(2-chloroethoxy)methane	180	UG/KG	1.0	U	U	Yes	
2,4-Dichlorophenol	180	UG/KG	1.0	U	U	Yes	
Naphthalene	180	UG/KG	1.0	U	U	Yes	
4-Chloroaniline	180	UG/KG	1.0	U	U	Yes	
Hexachlorobutadiene	180	UG/KG	1.0	U	U	Yes	
Caprolactam	180	UG/KG	1.0	U	U	Yes	
2-Methylnaphthalene	180	UG/KG	1.0	U	U	Yes	
Hexachlorocyclopentadiene	180	UG/KG	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2,4,6-Trichlorophenol	180	UG/KG	1.0	U	U	Yes	
2,4,5-Trichlorophenol	180	UG/KG	1.0	U	U	Yes	
1,1'-Biphenyl	180	UG/KG	1.0	U	U	Yes	
2-Chloronaphthalene	180	UG/KG	1.0	U	U	Yes	
2-Nitroaniline	350	UG/KG	1.0	U	U	Yes	
Dimethylphthalate	180	UG/KG	1.0	U	U	Yes	
2,6-Dinitrotoluene	180	UG/KG	1.0	U	U	Yes	
Acenaphthylene	180	UG/KG	1.0	U	U	Yes	
3-Nitroaniline	350	UG/KG	1.0	U	U	Yes	
2,4-Dinitrophenol	350	UG/KG	1.0	U	U	Yes	
Dibenzofuran	180	UG/KG	1.0	U	U	Yes	
Diethylphthalate	180	UG/KG	1.0	U	U	Yes	
Fluorene	180	UG/KG	1.0	U	U	Yes	
4-Chlorophenylphenylether	180	UG/KG	1.0	U	U	Yes	
4-Nitroaniline	350	UG/KG	1.0	U	U	Yes	
4,6-Dinitro-2-methylphenol	350	UG/KG	1.0	U	U	Yes	
N-Nitrosodiphenylamine	180	UG/KG	1.0	U	U	Yes	
1,2,4,5-Tetrachlorobenzene	180	UG/KG	1.0	U	U	Yes	
4-Bromophenylphenylether	180	UG/KG	1.0	U	U	Yes	
Hexachlorobenzene	180	UG/KG	1.0	U	U	Yes	
Atrazine	180	UG/KG	1.0	U	U	Yes	
Phenanthrene	180	UG/KG	1.0	U	U	Yes	
Anthracene	180	UG/KG	1.0	U	U	Yes	
Carbazole	180	UG/KG	1.0	U	U	Yes	
Di-n-butylphthalate	180	UG/KG	1.0	U	U	Yes	
Fluoranthene	220	UG/KG	1.0			Yes	
Butylbenzylphthalate	180	UG/KG	1.0	U	U	Yes	
3,3'-Dichlorobenzidine	180	UG/KG	1.0	U	U	Yes	
Benzo(a)anthracene	150	UG/KG	1.0	J	J	Yes	
Chrysene	160	UG/KG	1.0	J	J	Yes	
Bis(2-ethylhexyl)	110	UG/KG	1.0	J	J	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	110	UG/KG	1.0	J	J	Yes	
Di-n-octylphthalate	180	UG/KG	1.0	U	U	Yes	
Benzo(b)fluoranthene	120	UG/KG	1.0	J	J	Yes	
Benzo(k)fluoranthene	150	UG/KG	1.0	J	J	Yes	
Benzo(a)pyrene	130	UG/KG	1.0	J	J	Yes	
Indeno(1,2,3-cd)pyrene	90	UG/KG	1.0	J	J	Yes	
Dibenzo(a,h)anthracene	180	UG/KG	1.0	U	U	Yes	
Benzo(g,h,i)perylene	100	UG/KG	1.0	J	J	Yes	
2,3,4,6-Tetrachlorophenol	180	UG/KG	1.0	U	U	Yes	

Case No:	43102	Contract:	EPW11031	SDG No:	E3PB2	Lab Code:	KAP
Sample Number:	E3PB2MSD	Method:	Pest	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:		pH:	8.2	Sample Date:	11/06/2012	Sample Time:	14:50:00
% Moisture :	7.00			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
alpha-BHC	1.8	UG/KG	1.0	U	U	Yes	
gamma-BHC (Lindane)	15	UG/KG	1.0			Yes	
beta-BHC	1.8	UG/KG	1.0	U	U	Yes	
Heptachlor	14	UG/KG	1.0			Yes	
delta-BHC	1.8	UG/KG	1.0	U	U	Yes	
Aldrin	14	UG/KG	1.0			Yes	
Dieldrin	22	UG/KG	1.0	P	J	Yes	
Endrin	22	UG/KG	1.0	P	J	Yes	
4,4'-DDT	19	UG/KG	1.0	P	J	Yes	
Heptachlor epoxide	1.8	UG/KG	1.0	U	U	Yes	
Endosulfan I	1.8	UG/KG	1.0	U	U	Yes	
4,4'-DDE	3.5	UG/KG	1.0	U	U	Yes	
Endosulfan II	3.5	UG/KG	1.0	U	U	Yes	
4,4'-DDD	3.5	UG/KG	1.0	U	U	Yes	
Endosulfan sulfate	3.5	UG/KG	1.0	U	U	Yes	
Methoxychlor	18	UG/KG	1.0	U	U	Yes	
Endrin ketone	3.5	UG/KG	1.0	U	U	Yes	
Endrin aldehyde	3.5	UG/KG	1.0	U	U	Yes	
alpha-Chlordane	1.8	UG/KG	1.0	U	U	Yes	
gamma- Chlordane	1.8	UG/KG	1.0	U	U	Yes	
Toxaphene	180	UG/KG	1.0	U	U	Yes	

Case No:	43102	Contract:	EPW11031	SDG No:	E3PB2	Lab Code:	KAP
Sample Number:	E3PB2MSD	Method:	Aroclor	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:		pH:	8.2	Sample Date:	11/06/2012	Sample Time:	14:50:00
% Moisture :	7.0			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	120	UG/KG	1.0	P	J	Yes	
Aroclor-1221	35	UG/KG	1.0	U	U	Yes	
Aroclor-1260	93	UG/KG	1.0	P	J	Yes	
Aroclor-1232	35	UG/KG	1.0	U	U	Yes	
Aroclor-1242	35	UG/KG	1.0	U	U	Yes	
Aroclor-1248	35	UG/KG	1.0	U	U	Yes	
Aroclor-1254	35	UG/KG	1.0	U	U	Yes	
Aroclor-1262	35	UG/KG	1.0	U	U	Yes	
Aroclor-1268	35	UG/KG	1.0	U	U	Yes	

Case No:	43102	Contract:	EPW11031	SDG No:	E3PB2	Lab Code:	KAP
Sample Number:	E3PB2MSD	Method:	BNA	Matrix:	SOIL	MA Number:	DEFAULT
Sample Location:	SB-03	pH:	8.2	Sample Date:	11/06/2012	Sample Time:	14:50:00
% Moisture :	7.0			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	180	UG/KG	1.0	U	U	Yes	
Phenol	1800	UG/KG	1.0			Yes	
2-Chlorophenol	1600	UG/KG	1.0			Yes	
Bis(2-chloroethyl)ether	180	UG/KG	1.0	U	U	Yes	
N-Nitroso-di-n-propylamine	1100	UG/KG	1.0		J	Yes	
4-Chloro-3-methylphenol	1900	UG/KG	1.0			Yes	
Acenaphthene	910	UG/KG	1.0			Yes	
2-Methylphenol	180	UG/KG	1.0	U	U	Yes	
2,2'-Oxybis(1-chloropropane)	180	UG/KG	1.0	U	U	Yes	
4-Nitrophenol	1600	UG/KG	1.0			Yes	
Acetophenone	180	UG/KG	1.0	U	U	Yes	
2,4-Dinitrotoluene	1100	UG/KG	1.0			Yes	
Pentachlorophenol	1600	UG/KG	1.0		J	Yes	
4-Methylphenol	180	UG/KG	1.0	U	UJ	Yes	
Pyrene	1000	UG/KG	1.0			Yes	
Hexachloroethane	180	UG/KG	1.0	U	U	Yes	
Nitrobenzene	180	UG/KG	1.0	U	U	Yes	
Isophorone	180	UG/KG	1.0	U	U	Yes	
2-Nitrophenol	180	UG/KG	1.0	U	U	Yes	
2,4-Dimethylphenol	180	UG/KG	1.0	U	U	Yes	
Bis(2-chloroethoxy)methane	180	UG/KG	1.0	U	U	Yes	
2,4-Dichlorophenol	180	UG/KG	1.0	U	U	Yes	
Naphthalene	180	UG/KG	1.0	U	U	Yes	
4-Chloroaniline	180	UG/KG	1.0	U	U	Yes	
Hexachlorobutadiene	180	UG/KG	1.0	U	U	Yes	
Caprolactam	180	UG/KG	1.0	U	U	Yes	
2-Methylnaphthalene	180	UG/KG	1.0	U	U	Yes	
Hexachlorocyclopentadiene	180	UG/KG	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2,4,6-Trichlorophenol	180	UG/KG	1.0	U	U	Yes	
2,4,5-Trichlorophenol	180	UG/KG	1.0	U	U	Yes	
1,1'-Biphenyl	180	UG/KG	1.0	U	U	Yes	
2-Chloronaphthalene	180	UG/KG	1.0	U	U	Yes	
2-Nitroaniline	350	UG/KG	1.0	U	U	Yes	
Dimethylphthalate	180	UG/KG	1.0	U	U	Yes	
2,6-Dinitrotoluene	180	UG/KG	1.0	U	U	Yes	
Acenaphthylene	180	UG/KG	1.0	U	U	Yes	
3-Nitroaniline	350	UG/KG	1.0	U	U	Yes	
2,4-Dinitrophenol	350	UG/KG	1.0	U	U	Yes	
Dibenzofuran	180	UG/KG	1.0	U	U	Yes	
Diethylphthalate	180	UG/KG	1.0	U	U	Yes	
Fluorene	180	UG/KG	1.0	U	U	Yes	
4-Chlorophenylphenylether	180	UG/KG	1.0	U	U	Yes	
4-Nitroaniline	350	UG/KG	1.0	U	U	Yes	
4,6-Dinitro-2-methylphenol	350	UG/KG	1.0	U	U	Yes	
N-Nitrosodiphenylamine	180	UG/KG	1.0	U	U	Yes	
1,2,4,5-Tetrachlorobenzene	180	UG/KG	1.0	U	U	Yes	
4-Bromophenylphenylether	180	UG/KG	1.0	U	U	Yes	
Hexachlorobenzene	180	UG/KG	1.0	U	U	Yes	
Atrazine	180	UG/KG	1.0	U	U	Yes	
Phenanthrene	180	UG/KG	1.0	U	U	Yes	
Anthracene	180	UG/KG	1.0	U	U	Yes	
Carbazole	180	UG/KG	1.0	U	U	Yes	
Di-n-butylphthalate	180	UG/KG	1.0	U	U	Yes	
Fluoranthene	200	UG/KG	1.0			Yes	
Butylbenzylphthalate	180	UG/KG	1.0	U	U	Yes	
3,3'-Dichlorobenzidine	180	UG/KG	1.0	U	U	Yes	
Benzo(a)anthracene	140	UG/KG	1.0	J	J	Yes	
Chrysene	150	UG/KG	1.0	J	J	Yes	
Bis(2-ethylhexyl)	110	UG/KG	1.0	J	J	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	110	UG/KG	1.0	J	J	Yes	
Di-n-octylphthalate	180	UG/KG	1.0	U	U	Yes	
Benzo(b)fluoranthene	120	UG/KG	1.0	J	J	Yes	
Benzo(k)fluoranthene	140	UG/KG	1.0	J	J	Yes	
Benzo(a)pyrene	120	UG/KG	1.0	J	J	Yes	
Indeno(1,2,3-cd)pyrene	78	UG/KG	1.0	J	J	Yes	
Dibenzo(a,h)anthracene	180	UG/KG	1.0	U	U	Yes	
Benzo(g,h,i)perylene	83	UG/KG	1.0	J	J	Yes	
2,3,4,6-Tetrachlorophenol	180	UG/KG	1.0	U	U	Yes	

Case No:	43102	Contract:	EPW11031	SDG No:	E3PB2	Lab Code:	KAP
Sample Number:	E3PB4	Method:	Aroclor	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:	SB-05	pH:	7.9	Sample Date:	11/05/2012	Sample Time:	13:50:00
% Moisture :	11			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	37	UG/KG	1.0	U	U	Yes	
Aroclor-1221	37	UG/KG	1.0	U	U	Yes	
Aroclor-1232	37	UG/KG	1.0	U	U	Yes	
Aroclor-1242	37	UG/KG	1.0	U	U	Yes	
Aroclor-1248	37	UG/KG	1.0	U	U	Yes	
Aroclor-1254	37	UG/KG	1.0	U	U	Yes	
Aroclor-1260	37	UG/KG	1.0	U	U	Yes	
Aroclor-1262	37	UG/KG	1.0	U	U	Yes	
Aroclor-1268	37	UG/KG	1.0	U	U	Yes	

Case No:	43102	Contract:	EPW11031	SDG No:	E3PB2	Lab Code:	KAP
Sample Number:	E3PB4	Method:	BNA	Matrix:	SOIL	MA Number:	DEFAULT
Sample Location:	SB-05	pH:	7.9	Sample Date:	11/05/2012	Sample Time:	13:50:00
% Moisture :	11			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	190	UG/KG	1.0	U	U	Yes	
Phenol	190	UG/KG	1.0	U	U	Yes	
Bis(2-chloroethyl)ether	190	UG/KG	1.0	U	U	Yes	
2-Chlorophenol	190	UG/KG	1.0	U	U	Yes	
2-Methylphenol	190	UG/KG	1.0	U	U	Yes	
2,2'-Oxybis(1-chloropropane)	190	UG/KG	1.0	U	U	Yes	
Acetophenone	190	UG/KG	1.0	U	U	Yes	
4-Methylphenol	190	UG/KG	1.0	U	U	Yes	
N-Nitroso-di-n-propylamine	190	UG/KG	1.0	U	U	Yes	
Hexachloroethane	190	UG/KG	1.0	U	U	Yes	
Nitrobenzene	190	UG/KG	1.0	U	U	Yes	
Isophorone	190	UG/KG	1.0	U	U	Yes	
2-Nitrophenol	190	UG/KG	1.0	U	U	Yes	
2,4-Dimethylphenol	190	UG/KG	1.0	U	U	Yes	
Bis(2-chloroethoxy)methane	190	UG/KG	1.0	U	U	Yes	
2,4-Dichlorophenol	190	UG/KG	1.0	U	U	Yes	
Naphthalene	190	UG/KG	1.0	U	U	Yes	
4-Chloroaniline	190	UG/KG	1.0	U	U	Yes	
Hexachlorobutadiene	190	UG/KG	1.0	U	U	Yes	
Caprolactam	190	UG/KG	1.0	U	U	Yes	
4-Chloro-3-methylphenol	190	UG/KG	1.0	U	U	Yes	
2-Methylnaphthalene	190	UG/KG	1.0	U	U	Yes	
Hexachlorocyclopentadiene	190	UG/KG	1.0	U	U	Yes	
2,4,6-Trichlorophenol	190	UG/KG	1.0	U	U	Yes	
2,4,5-Trichlorophenol	190	UG/KG	1.0	U	U	Yes	
1,1'-Biphenyl	190	UG/KG	1.0	U	U	Yes	
2-Chloronaphthalene	190	UG/KG	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	370	UG/KG	1.0	U	U	Yes	
Dimethylphthalate	190	UG/KG	1.0	U	U	Yes	
2,6-Dinitrotoluene	190	UG/KG	1.0	U	U	Yes	
Acenaphthylene	190	UG/KG	1.0	U	U	Yes	
3-Nitroaniline	370	UG/KG	1.0	U	U	Yes	
Acenaphthene	190	UG/KG	1.0	U	U	Yes	
2,4-Dinitrophenol	370	UG/KG	1.0	U	U	Yes	
4-Nitrophenol	370	UG/KG	1.0	U	U	Yes	
Dibenzofuran	190	UG/KG	1.0	U	U	Yes	
2,4-Dinitrotoluene	190	UG/KG	1.0	U	U	Yes	
Diethylphthalate	86	UG/KG	1.0	J	J	Yes	
Fluorene	190	UG/KG	1.0	U	U	Yes	
4-Chlorophenylphenylether	190	UG/KG	1.0	U	U	Yes	
4-Nitroaniline	370	UG/KG	1.0	U	U	Yes	
4,6-Dinitro-2-methylphenol	370	UG/KG	1.0	U	U	Yes	
N-Nitrosodiphenylamine	190	UG/KG	1.0	U	U	Yes	
1,2,4,5-Tetrachlorobenzene	190	UG/KG	1.0	U	U	Yes	
4-Bromophenylphenylether	190	UG/KG	1.0	U	U	Yes	
Hexachlorobenzene	190	UG/KG	1.0	U	U	Yes	
Atrazine	190	UG/KG	1.0	U	U	Yes	
Pentachlorophenol	370	UG/KG	1.0	U	U	Yes	
Phenanthrene	190	UG/KG	1.0	U	U	Yes	
Anthracene	190	UG/KG	1.0	U	U	Yes	
Carbazole	190	UG/KG	1.0	U	U	Yes	
Di-n-butylphthalate	160	UG/KG	1.0	J	J	Yes	
Fluoranthene	140	UG/KG	1.0	J	J	Yes	
Pyrene	140	UG/KG	1.0	J	J	Yes	
Butylbenzylphthalate	190	UG/KG	1.0	U	U	Yes	
3,3'-Dichlorobenzidine	190	UG/KG	1.0	U	U	Yes	
Benzo(a)anthracene	190	UG/KG	1.0	U	U	Yes	
Chrysene	160	UG/KG	1.0	J	J	Yes	
Bis(2-ethylhexyl)	76	UG/KG	1.0	J	J	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	76	UG/KG	1.0	J	J	Yes	
Di-n-octylphthalate	190	UG/KG	1.0	U	U	Yes	
Benzo(b)fluoranthene	190	UG/KG	1.0	U	U	Yes	
Benzo(k)fluoranthene	78	UG/KG	1.0	J	J	Yes	
Benzo(a)pyrene	130	UG/KG	1.0	J	J	Yes	
Indeno(1,2,3-cd)pyrene	77	UG/KG	1.0	J	J	Yes	
Dibenzo(a,h)anthracene	190	UG/KG	1.0	U	U	Yes	
Benzo(g,h,i)perylene	220	UG/KG	1.0			Yes	
2,3,4,6-Tetrachlorophenol	190	UG/KG	1.0	U	U	Yes	
Octadecane			1.0	NJ		No	
Pyrene, 1,3-dimethyl-			1.0	NJ		Yes	
Chrysene, 6-methyl-			1.0	NJ		Yes	
Eicosane			1.0	NJ		No	
7-Isopropyl-1,1,4a-trimethyl-1,2,3,4,4a,9,10,10a-octahydrophenanthrene			1.0	NJ		Yes	
7,8,9,10-Tetrahydrobenzo[a]pyrene			1.0	NJ		Yes	

Case No:	43102	Contract:	EPW11031	SDG No:	E3PB2	Lab Code:	KAP
Sample Number:	E3PB4	Method:	Pest	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:	SB-05	pH:	7.9	Sample Date:	11/05/2012	Sample Time:	13:50:00
% Moisture :	11.00			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
alpha-BHC	1.9	UG/KG	1.0	U	U	Yes	
beta-BHC	1.9	UG/KG	1.0	U	U	Yes	
delta-BHC	1.9	UG/KG	1.0	U	U	Yes	
gamma-BHC (Lindane)	1.9	UG/KG	1.0	U	U	Yes	
Heptachlor	1.9	UG/KG	1.0	U	U	Yes	
Aldrin	1.9	UG/KG	1.0	U	U	Yes	
Heptachlor epoxide	1.9	UG/KG	1.0	U	U	Yes	
Endosulfan I	1.9	UG/KG	1.0	U	U	Yes	
Dieldrin	3.7	UG/KG	1.0	U	U	Yes	
4,4'-DDE	3.7	UG/KG	1.0	U	U	Yes	
Endrin	3.7	UG/KG	1.0	U	U	Yes	
Endosulfan II	3.7	UG/KG	1.0	U	U	Yes	
4,4'-DDD	3.7	UG/KG	1.0	U	U	Yes	
Endosulfan sulfate	3.7	UG/KG	1.0	U	U	Yes	
4,4'-DDT	3.7	UG/KG	1.0	U	U	Yes	
Methoxychlor	4.4	UG/KG	1.0	JP	J	Yes	
Endrin ketone	3.7	UG/KG	1.0	U	U	Yes	
Endrin aldehyde	3.7	UG/KG	1.0	U	U	Yes	
alpha-Chlordane	1.9	UG/KG	1.0	U	U	Yes	
gamma- Chlordane	1.9	UG/KG	1.0	U	U	Yes	
Toxaphene	190	UG/KG	1.0	U	U	Yes	

Case No:	43102	Contract:	EPW11031	SDG No:	E3PB2	Lab Code:	KAP
Sample Number:	E3PB5	Method:	BNA	Matrix:	SOIL	MA Number:	DEFAULT
Sample Location:	SB-06	pH:	7.8	Sample Date:	11/05/2012	Sample Time:	11:45:00
% Moisture :	9.0			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	190	UG/KG	1.0	U	U	Yes	
Phenol	190	UG/KG	1.0	U	U	Yes	
Bis(2-chloroethyl)ether	190	UG/KG	1.0	U	U	Yes	
2-Chlorophenol	190	UG/KG	1.0	U	U	Yes	
2-Methylphenol	190	UG/KG	1.0	U	U	Yes	
2,2'-Oxybis(1-chloropropane)	190	UG/KG	1.0	U	U	Yes	
Acetophenone	190	UG/KG	1.0	U	U	Yes	
4-Methylphenol	190	UG/KG	1.0	U	U	Yes	
N-Nitroso-di-n-propylamine	190	UG/KG	1.0	U	U	Yes	
Hexachloroethane	190	UG/KG	1.0	U	U	Yes	
Nitrobenzene	190	UG/KG	1.0	U	U	Yes	
Isophorone	190	UG/KG	1.0	U	U	Yes	
2-Nitrophenol	190	UG/KG	1.0	U	U	Yes	
2,4-Dimethylphenol	190	UG/KG	1.0	U	U	Yes	
Bis(2-chloroethoxy)methane	190	UG/KG	1.0	U	U	Yes	
2,4-Dichlorophenol	190	UG/KG	1.0	U	U	Yes	
Naphthalene	190	UG/KG	1.0	U	U	Yes	
4-Chloroaniline	190	UG/KG	1.0	U	U	Yes	
Hexachlorobutadiene	190	UG/KG	1.0	U	U	Yes	
Caprolactam	190	UG/KG	1.0	U	U	Yes	
4-Chloro-3-methylphenol	190	UG/KG	1.0	U	U	Yes	
2-Methylnaphthalene	190	UG/KG	1.0	U	U	Yes	
Hexachlorocyclopentadiene	190	UG/KG	1.0	U	U	Yes	
2,4,6-Trichlorophenol	190	UG/KG	1.0	U	U	Yes	
2,4,5-Trichlorophenol	190	UG/KG	1.0	U	U	Yes	
1,1'-Biphenyl	190	UG/KG	1.0	U	U	Yes	
2-Chloronaphthalene	190	UG/KG	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	360	UG/KG	1.0	U	U	Yes	
Dimethylphthalate	190	UG/KG	1.0	U	U	Yes	
2,6-Dinitrotoluene	190	UG/KG	1.0	U	U	Yes	
Acenaphthylene	190	UG/KG	1.0	U	U	Yes	
3-Nitroaniline	360	UG/KG	1.0	U	U	Yes	
Acenaphthene	190	UG/KG	1.0	U	U	Yes	
2,4-Dinitrophenol	360	UG/KG	1.0	U	U	Yes	
4-Nitrophenol	360	UG/KG	1.0	U	U	Yes	
Dibenzofuran	190	UG/KG	1.0	U	U	Yes	
2,4-Dinitrotoluene	190	UG/KG	1.0	U	U	Yes	
Diethylphthalate	190	UG/KG	1.0	U	U	Yes	
Fluorene	190	UG/KG	1.0	U	U	Yes	
4-Chlorophenylphenylether	190	UG/KG	1.0	U	U	Yes	
4-Nitroaniline	360	UG/KG	1.0	U	U	Yes	
4,6-Dinitro-2-methylphenol	360	UG/KG	1.0	U	U	Yes	
N-Nitrosodiphenylamine	190	UG/KG	1.0	U	U	Yes	
1,2,4,5-Tetrachlorobenzene	190	UG/KG	1.0	U	U	Yes	
4-Bromophenylphenylether	190	UG/KG	1.0	U	U	Yes	
Hexachlorobenzene	190	UG/KG	1.0	U	U	Yes	
Atrazine	190	UG/KG	1.0	U	U	Yes	
Pentachlorophenol	360	UG/KG	1.0	U	U	Yes	
Phenanthrene	190	UG/KG	1.0	U	U	Yes	
Anthracene	190	UG/KG	1.0	U	U	Yes	
Carbazole	190	UG/KG	1.0	U	U	Yes	
Di-n-butylphthalate	190	UG/KG	1.0	U	U	Yes	
Fluoranthene	190	UG/KG	1.0	U	U	Yes	
Pyrene	190	UG/KG	1.0	U	U	Yes	
Butylbenzylphthalate	190	UG/KG	1.0	U	U	Yes	
3,3'-Dichlorobenzidine	190	UG/KG	1.0	U	U	Yes	
Benzo(a)anthracene	190	UG/KG	1.0	U	U	Yes	
Chrysene	190	UG/KG	1.0	U	U	Yes	
Bis(2-ethylhexyl)	88	UG/KG	1.0	J	J	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	88	UG/KG	1.0	J	J	Yes	
Di-n-octylphthalate	190	UG/KG	1.0	U	U	Yes	
Benzo(b)fluoranthene	190	UG/KG	1.0	U	U	Yes	
Benzo(k)fluoranthene	190	UG/KG	1.0	U	U	Yes	
Benzo(a)pyrene	190	UG/KG	1.0	U	U	Yes	
Indeno(1,2,3-cd)pyrene	190	UG/KG	1.0	U	U	Yes	
Dibenzo(a,h)anthracene	190	UG/KG	1.0	U	U	Yes	
Benzo(g,h,i)perylene	190	UG/KG	1.0	U	U	Yes	
2,3,4,6-Tetrachlorophenol	190	UG/KG	1.0	U	U	Yes	
Total Alkanes			1.0	J		Yes	

Case No:	43102	Contract:	EPW11031	SDG No:	E3PB2	Lab Code:	KAP
Sample Number:	E3PB5	Method:	Aroclor	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:	SB-06	pH:	7.8	Sample Date:	11/05/2012	Sample Time:	11:45:00
% Moisture :	9.0			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	36	UG/KG	1.0	U	U	Yes	
Aroclor-1221	36	UG/KG	1.0	U	U	Yes	
Aroclor-1232	36	UG/KG	1.0	U	U	Yes	
Aroclor-1242	36	UG/KG	1.0	U	U	Yes	
Aroclor-1248	36	UG/KG	1.0	U	U	Yes	
Aroclor-1254	36	UG/KG	1.0	U	U	Yes	
Aroclor-1260	36	UG/KG	1.0	U	U	Yes	
Aroclor-1262	36	UG/KG	1.0	U	U	Yes	
Aroclor-1268	36	UG/KG	1.0	U	U	Yes	

Case No:	43102	Contract:	EPW11031	SDG No:	E3PB2	Lab Code:	KAP
Sample Number:	E3PB5	Method:	Pest	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:	SB-06	pH:	7.8	Sample Date:	11/05/2012	Sample Time:	11:45:00
% Moisture :	9.00			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
alpha-BHC	1.9	UG/KG	1.0	U	U	Yes	
beta-BHC	1.9	UG/KG	1.0	U	U	Yes	
delta-BHC	1.9	UG/KG	1.0	U	U	Yes	
gamma-BHC (Lindane)	1.9	UG/KG	1.0	U	U	Yes	
Heptachlor	1.9	UG/KG	1.0	U	U	Yes	
Aldrin	1.9	UG/KG	1.0	U	U	Yes	
Heptachlor epoxide	1.9	UG/KG	1.0	U	U	Yes	
Endosulfan I	1.9	UG/KG	1.0	U	U	Yes	
Dieldrin	3.6	UG/KG	1.0	U	U	Yes	
4,4'-DDE	3.6	UG/KG	1.0	U	U	Yes	
Endrin	3.6	UG/KG	1.0	U	U	Yes	
Endosulfan II	3.6	UG/KG	1.0	U	U	Yes	
4,4'-DDD	3.6	UG/KG	1.0	U	U	Yes	
Endosulfan sulfate	3.6	UG/KG	1.0	U	U	Yes	
4,4'-DDT	3.6	UG/KG	1.0	U	U	Yes	
Methoxychlor	19	UG/KG	1.0	U	U	Yes	
Endrin ketone	3.6	UG/KG	1.0	U	U	Yes	
Endrin aldehyde	3.6	UG/KG	1.0	U	U	Yes	
alpha-Chlordane	1.9	UG/KG	1.0	U	U	Yes	
gamma- Chlordane	1.9	UG/KG	1.0	U	U	Yes	
Toxaphene	190	UG/KG	1.0	U	U	Yes	

Case No:	43102	Contract:	EPW11031	SDG No:	E3PB2	Lab Code:	KAP
Sample Number:	E3PB7	Method:	Pest	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:	SB-08	pH:	6.9	Sample Date:	11/06/2012	Sample Time:	15:45:00
% Moisture :	52.00			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
alpha-BHC	3.5	UG/KG	1.0	U	U	Yes	
beta-BHC	23	UG/KG	1.0	P	J	Yes	
delta-BHC	3.5	UG/KG	1.0	U	U	Yes	
gamma-BHC (Lindane)	3.5	UG/KG	1.0	U	U	Yes	
Heptachlor	3.5	UG/KG	1.0	U	U	Yes	
Aldrin	3.5	UG/KG	1.0	U	U	Yes	
Heptachlor epoxide	3.5	UG/KG	1.0	U	U	Yes	
Endosulfan I	3.5	UG/KG	1.0	U	U	Yes	
Dieldrin	6.8	UG/KG	1.0	U	U	Yes	
4,4'-DDE	6.8	UG/KG	1.0	U	U	Yes	
Endrin	6.8	UG/KG	1.0	U	U	Yes	
Endosulfan II	6.8	UG/KG	1.0	U	U	Yes	
4,4'-DDD	6.8	UG/KG	1.0	U	U	Yes	
Endosulfan sulfate	6.8	UG/KG	1.0	U	U	Yes	
4,4'-DDT	6.8	UG/KG	1.0	U	U	Yes	
Methoxychlor	35	UG/KG	1.0	U	U	Yes	
Endrin ketone	6.8	UG/KG	1.0	U	U	Yes	
Endrin aldehyde	6.8	UG/KG	1.0	U	U	Yes	
alpha-Chlordane	3.5	UG/KG	1.0	U	U	Yes	
gamma- Chlordane	3.5	UG/KG	1.0	U	U	Yes	
Toxaphene	350	UG/KG	1.0	U	U	Yes	

Case No:	43102	Contract:	EPW11031	SDG No:	E3PB2	Lab Code:	KAP
Sample Number:	E3PB7	Method:	BNA	Matrix:	SOIL	MA Number:	DEFAULT
Sample Location:	SB-08	pH:	6.9	Sample Date:	11/06/2012	Sample Time:	15:45:00
% Moisture :	52			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	350	UG/KG	1.0	U	UJ	Yes	
Phenol	350	UG/KG	1.0	U	UJ	Yes	
Bis(2-chloroethyl)ether	350	UG/KG	1.0	U	UJ	Yes	
2-Chlorophenol	350	UG/KG	1.0	U	UJ	Yes	
2-Methylphenol	350	UG/KG	1.0	U	UJ	Yes	
2,2'-Oxybis(1-chloropropane)	350	UG/KG	1.0	U	UJ	Yes	
Acetophenone	350	UG/KG	1.0	U	UJ	Yes	
4-Methylphenol	350	UG/KG	1.0	U	UJ	Yes	
N-Nitroso-di-n-propylamine	350	UG/KG	1.0	U	UJ	Yes	
Hexachloroethane	350	UG/KG	1.0	U	UJ	Yes	
Nitrobenzene	350	UG/KG	1.0	U	U	Yes	
Isophorone	350	UG/KG	1.0	U	U	Yes	
2-Nitrophenol	350	UG/KG	1.0	U	U	Yes	
2,4-Dimethylphenol	350	UG/KG	1.0	U	U	Yes	
Bis(2-chloroethoxy)methane	350	UG/KG	1.0	U	U	Yes	
2,4-Dichlorophenol	350	UG/KG	1.0	U	U	Yes	
Naphthalene	830	UG/KG	1.0			Yes	
4-Chloroaniline	350	UG/KG	1.0	U	U	Yes	
Hexachlorobutadiene	350	UG/KG	1.0	U	U	Yes	
Caprolactam	350	UG/KG	1.0	U	U	Yes	
4-Chloro-3-methylphenol	350	UG/KG	1.0	U	U	Yes	
2-Methylnaphthalene	410	UG/KG	1.0			Yes	
Hexachlorocyclopentadiene	350	UG/KG	1.0	U	U	Yes	
2,4,6-Trichlorophenol	350	UG/KG	1.0	U	U	Yes	
2,4,5-Trichlorophenol	350	UG/KG	1.0	U	U	Yes	
1,1'-Biphenyl	350	UG/KG	1.0	U	U	Yes	
2-Chloronaphthalene	350	UG/KG	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	690	UG/KG	1.0	U	U	Yes	
Dimethylphthalate	350	UG/KG	1.0	U	U	Yes	
2,6-Dinitrotoluene	350	UG/KG	1.0	U	U	Yes	
Acenaphthylene	900	UG/KG	1.0			Yes	
3-Nitroaniline	690	UG/KG	1.0	U	U	Yes	
Acenaphthene	1500	UG/KG	1.0			Yes	
2,4-Dinitrophenol	690	UG/KG	1.0	U	U	Yes	
4-Nitrophenol	690	UG/KG	1.0	U	U	Yes	
Dibenzofuran	1000	UG/KG	1.0			Yes	
2,4-Dinitrotoluene	350	UG/KG	1.0	U	U	Yes	
Diethylphthalate	350	UG/KG	1.0	U	U	Yes	
Fluorene	1600	UG/KG	1.0			Yes	
4-Chlorophenylphenylether	350	UG/KG	1.0	U	U	Yes	
4-Nitroaniline	690	UG/KG	1.0	U	U	Yes	
4,6-Dinitro-2-methylphenol	690	UG/KG	1.0	U	U	Yes	
N-Nitrosodiphenylamine	350	UG/KG	1.0	U	U	Yes	
1,2,4,5-Tetrachlorobenzene	350	UG/KG	1.0	U	U	Yes	
4-Bromophenylphenylether	350	UG/KG	1.0	U	U	Yes	
Hexachlorobenzene	350	UG/KG	1.0	U	U	Yes	
Atrazine	350	UG/KG	1.0	U	U	Yes	
Pentachlorophenol	690	UG/KG	1.0	U	U	Yes	
Phenanthrene	6600	UG/KG	1.0	E	J	Yes	
Anthracene	3100	UG/KG	1.0			Yes	
Carbazole	1800	UG/KG	1.0			Yes	
Di-n-butylphthalate	160	UG/KG	1.0	J	J	Yes	
Fluoranthene	6300	UG/KG	1.0	E	J	Yes	
Pyrene	5800	UG/KG	1.0	E	J	Yes	
Butylbenzylphthalate	350	UG/KG	1.0	U	U	Yes	
3,3'-Dichlorobenzidine	350	UG/KG	1.0	U	U	Yes	
Benzo(a)anthracene	4500	UG/KG	1.0			Yes	
Chrysene	4600	UG/KG	1.0			Yes	
Bis(2-ethylhexyl)	350	UG/KG	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	350	UG/KG	1.0	U	U	Yes	
Di-n-octylphthalate	350	UG/KG	1.0	U	U	Yes	
Benzo(b)fluoranthene	3800	UG/KG	1.0			Yes	
Benzo(k)fluoranthene	3500	UG/KG	1.0			Yes	
Benzo(a)pyrene	5200	UG/KG	1.0			Yes	
Indeno(1,2,3-cd)pyrene	4200	UG/KG	1.0			Yes	
Dibenzo(a,h)anthracene	2100	UG/KG	1.0			Yes	
Benzo(g,h,i)perylene	4300	UG/KG	1.0			Yes	
2,3,4,6-Tetrachlorophenol	350	UG/KG	1.0	U	U	Yes	
2,2'-Binaphthalene			1.0	NJ		Yes	
7H-Benz[de]anthracene			1.0	NJ		Yes	
11H-Benzo[a]carbazole			1.0	NJ		Yes	
Naphthalene, 2,3,6-trimethyl-			1.0	NJ		Yes	
Dibenzo[def,mno]chrysene			1.0	NJ		Yes	
Triphenylene, 2-methyl-			1.0	NJ		Yes	
Naphthalene, 1-methyl-			1.0	NJ		Yes	
Triphenylene			1.0	NJ		Yes	
Benzo[b]triphenylene			1.0	NJ		Yes	
Cyclopenta(cd)pyrene, 3,4-dihydro-			1.0	NJ		Yes	
1,1'-Biphenyl, 2-methyl-			1.0	NJ		Yes	
o-Terphenyl			1.0	NJ		Yes	
2-Tetradecene, (E)-			1.0	NJ		Yes	
Fluoranthene, 2-methyl-			1.0	NJ		Yes	
Pyrene, 1-methyl-			1.0	NJ		Yes	
7H-Benzo[c]carbazole			1.0	NJ		Yes	
Benzo[e]pyrene			1.0	NJ		Yes	
11H-Benzo[b]fluorene			1.0	NJ		Yes	
1,2:7,8-Dibenzophenanthrene			1.0	NJ		Yes	

Case No:	43102	Contract:	EPW11031	SDG No:	E3PB2	Lab Code:	KAP
Sample Number:	E3PB7	Method:	Aroclor	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:	SB-08	pH:	6.9	Sample Date:	11/06/2012	Sample Time:	15:45:00
% Moisture :	52			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	69	UG/KG	1.0	U	U	Yes	
Aroclor-1221	69	UG/KG	1.0	U	U	Yes	
Aroclor-1232	69	UG/KG	1.0	U	U	Yes	
Aroclor-1242	69	UG/KG	1.0	U	U	Yes	
Aroclor-1248	69	UG/KG	1.0	U	U	Yes	
Aroclor-1254	69	UG/KG	1.0	U	U	Yes	
Aroclor-1260	69	UG/KG	1.0	U	U	Yes	
Aroclor-1262	69	UG/KG	1.0	U	U	Yes	
Aroclor-1268	69	UG/KG	1.0	U	U	Yes	

Case No:	43102	Contract:	EPW11031	SDG No:	E3PB2	Lab Code:	KAP
Sample Number:	E3PB7DL	Method:	BNA	Matrix:	SOIL	MA Number:	DEFAULT
Sample Location:	SB-08	pH:	6.9	Sample Date:	11/06/2012	Sample Time:	15:45:00
% Moisture :	52			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	710	UG/KG	2.0	U	U	Yes	
Phenol	710	UG/KG	2.0	U	U	Yes	
Bis(2-chloroethyl)ether	710	UG/KG	2.0	U	U	Yes	
2-Chlorophenol	710	UG/KG	2.0	U	U	Yes	
2-Methylphenol	710	UG/KG	2.0	U	U	Yes	
2,2'-Oxybis(1-chloropropane)	710	UG/KG	2.0	U	U	Yes	
Acetophenone	710	UG/KG	2.0	U	U	Yes	
4-Methylphenol	710	UG/KG	2.0	U	UJ	Yes	
N-Nitroso-di-n-propylamine	710	UG/KG	2.0	U	UJ	Yes	
Hexachloroethane	710	UG/KG	2.0	U	U	Yes	
Nitrobenzene	710	UG/KG	2.0	U	U	Yes	
Isophorone	710	UG/KG	2.0	U	U	Yes	
2-Nitrophenol	710	UG/KG	2.0	U	U	Yes	
2,4-Dimethylphenol	710	UG/KG	2.0	U	U	Yes	
Bis(2-chloroethoxy)methane	710	UG/KG	2.0	U	U	Yes	
2,4-Dichlorophenol	710	UG/KG	2.0	U	U	Yes	
Naphthalene	880	UG/KG	2.0	D		Yes	
4-Chloroaniline	710	UG/KG	2.0	U	U	Yes	
Hexachlorobutadiene	710	UG/KG	2.0	U	U	Yes	
Caprolactam	710	UG/KG	2.0	U	U	Yes	
4-Chloro-3-methylphenol	710	UG/KG	2.0	U	U	Yes	
2-Methylnaphthalene	510	UG/KG	2.0	DJ	J	Yes	
Hexachlorocyclopentadiene	710	UG/KG	2.0	U	U	Yes	
2,4,6-Trichlorophenol	710	UG/KG	2.0	U	U	Yes	
2,4,5-Trichlorophenol	710	UG/KG	2.0	U	U	Yes	
1,1'-Biphenyl	710	UG/KG	2.0	U	U	Yes	
2-Chloronaphthalene	710	UG/KG	2.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	1400	UG/KG	2.0	U	U	Yes	
Dimethylphthalate	710	UG/KG	2.0	U	U	Yes	
2,6-Dinitrotoluene	710	UG/KG	2.0	U	U	Yes	
Acenaphthylene	550	UG/KG	2.0	DJ	J	Yes	
3-Nitroaniline	1400	UG/KG	2.0	U	U	Yes	
Acenaphthene	1500	UG/KG	2.0	D		Yes	
2,4-Dinitrophenol	1400	UG/KG	2.0	U	U	Yes	
4-Nitrophenol	1400	UG/KG	2.0	U	U	Yes	
Dibenzofuran	1100	UG/KG	2.0	D		Yes	
2,4-Dinitrotoluene	710	UG/KG	2.0	U	U	Yes	
Diethylphthalate	710	UG/KG	2.0	U	U	Yes	
Fluorene	1600	UG/KG	2.0	D		Yes	
4-Chlorophenylphenylether	710	UG/KG	2.0	U	U	Yes	
4-Nitroaniline	1400	UG/KG	2.0	U	U	Yes	
4,6-Dinitro-2-methylphenol	1400	UG/KG	2.0	U	U	Yes	
N-Nitrosodiphenylamine	710	UG/KG	2.0	U	U	Yes	
1,2,4,5-Tetrachlorobenzene	710	UG/KG	2.0	U	U	Yes	
4-Bromophenylphenylether	710	UG/KG	2.0	U	U	Yes	
Hexachlorobenzene	710	UG/KG	2.0	U	U	Yes	
Atrazine	710	UG/KG	2.0	U	U	Yes	
Pentachlorophenol	1400	UG/KG	2.0	U	UJ	Yes	
Phenanthrene	8100	UG/KG	2.0	D		Yes	
Anthracene	3100	UG/KG	2.0	D		Yes	
Carbazole	1800	UG/KG	2.0	D		Yes	
Di-n-butylphthalate	710	UG/KG	2.0	U	U	Yes	
Fluoranthene	7000	UG/KG	2.0	D		Yes	
Pyrene	8300	UG/KG	2.0	D		Yes	
Butylbenzylphthalate	710	UG/KG	2.0	U	U	Yes	
3,3'-Dichlorobenzidine	710	UG/KG	2.0	U	U	Yes	
Benzo(a)anthracene	5500	UG/KG	2.0	D		Yes	
Chrysene	5700	UG/KG	2.0	D		Yes	
Bis(2-ethylhexyl)	710	UG/KG	2.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	710	UG/KG	2.0	U	U	Yes	
Di-n-octylphthalate	710	UG/KG	2.0	U	U	Yes	
Benzo(b)fluoranthene	6500	UG/KG	2.0	D	J	Yes	
Benzo(k)fluoranthene	5800	UG/KG	2.0	D		Yes	
Benzo(a)pyrene	6200	UG/KG	2.0	D		Yes	
Indeno(1,2,3-cd)pyrene	4300	UG/KG	2.0	D		Yes	
Dibenzo(a,h)anthracene	1800	UG/KG	2.0	D		Yes	
Benzo(g,h,i)perylene	4600	UG/KG	2.0	D		Yes	
2,3,4,6-Tetrachlorophenol	710	UG/KG	2.0	U	U	Yes	
Benzo[b]triphenylene			2.0	DNJ		Yes	
Perylene, 3-methyl-			2.0	DNJ		Yes	
1H-Indeno[2,1-a]phenanthrene			2.0	DNJ		Yes	
Dibenzo[def,mno]chrysene			2.0	DNJ		Yes	
1,2:4,5-Dibenzopyrene			2.0	DNJ		Yes	
Benz[e]acephenanthrylene			2.0	DNJ		Yes	
1,2:7,8-Dibenzophenanthrene			2.0	DNJ		Yes	
1,2:4,5-Dibenzopyrene			2.0	DNJ		Yes	
Dinaphtho[1,2-b:1',2'-d]furan			2.0	DNJ		Yes	
1,2:4,5-Dibenzopyrene			2.0	DNJ		Yes	

Case No:	43102	Contract:	EPW11031	SDG No:	E3PB2	Lab Code:	KAP
Sample Number:	E3PB8	Method:	Aroclor	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:	SB-09	pH:	8.7	Sample Date:	11/06/2012	Sample Time:	12:15:00
% Moisture :	9.0			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	36	UG/KG	1.0	U	U	Yes	
Aroclor-1221	36	UG/KG	1.0	U	U	Yes	
Aroclor-1232	36	UG/KG	1.0	U	U	Yes	
Aroclor-1242	36	UG/KG	1.0	U	U	Yes	
Aroclor-1248	36	UG/KG	1.0	U	U	Yes	
Aroclor-1254	36	UG/KG	1.0	U	U	Yes	
Aroclor-1260	36	UG/KG	1.0	U	U	Yes	
Aroclor-1262	36	UG/KG	1.0	U	U	Yes	
Aroclor-1268	36	UG/KG	1.0	U	U	Yes	

Case No:	43102	Contract:	EPW11031	SDG No:	E3PB2	Lab Code:	KAP
Sample Number:	E3PB8	Method:	Pest	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:	SB-09	pH:	8.7	Sample Date:	11/06/2012	Sample Time:	12:15:00
% Moisture :	9.00			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
alpha-BHC	1.9	UG/KG	1.0	U	U	Yes	
beta-BHC	1.9	UG/KG	1.0	U	U	Yes	
delta-BHC	1.9	UG/KG	1.0	U	U	Yes	
gamma-BHC (Lindane)	1.9	UG/KG	1.0	U	U	Yes	
Heptachlor	1.9	UG/KG	1.0	U	U	Yes	
Aldrin	1.9	UG/KG	1.0	U	U	Yes	
Heptachlor epoxide	1.9	UG/KG	1.0	U	U	Yes	
Endosulfan I	1.9	UG/KG	1.0	U	U	Yes	
Dieldrin	3.6	UG/KG	1.0	U	U	Yes	
4,4'-DDE	3.6	UG/KG	1.0	U	U	Yes	
Endrin	3.6	UG/KG	1.0	U	U	Yes	
Endosulfan II	3.6	UG/KG	1.0	U	U	Yes	
4,4'-DDD	3.6	UG/KG	1.0	U	U	Yes	
Endosulfan sulfate	3.6	UG/KG	1.0	U	U	Yes	
4,4'-DDT	3.6	UG/KG	1.0	U	U	Yes	
Methoxychlor	19	UG/KG	1.0	U	U	Yes	
Endrin ketone	3.6	UG/KG	1.0	U	U	Yes	
Endrin aldehyde	3.6	UG/KG	1.0	U	U	Yes	
alpha-Chlordane	1.9	UG/KG	1.0	U	U	Yes	
gamma- Chlordane	1.9	UG/KG	1.0	U	U	Yes	
Toxaphene	190	UG/KG	1.0	U	U	Yes	

Case No:	43102	Contract:	EPW11031	SDG No:	E3PB2	Lab Code:	KAP
Sample Number:	E3PB8	Method:	BNA	Matrix:	SOIL	MA Number:	DEFAULT
Sample Location:	SB-09	pH:	8.7	Sample Date:	11/06/2012	Sample Time:	12:15:00
% Moisture :	9.0			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	180	UG/KG	1.0	U	U	Yes	
Phenol	180	UG/KG	1.0	U	U	Yes	
Bis(2-chloroethyl)ether	180	UG/KG	1.0	U	U	Yes	
2-Chlorophenol	180	UG/KG	1.0	U	U	Yes	
2-Methylphenol	180	UG/KG	1.0	U	U	Yes	
2,2'-Oxybis(1-chloropropane)	180	UG/KG	1.0	U	U	Yes	
Acetophenone	180	UG/KG	1.0	U	U	Yes	
4-Methylphenol	180	UG/KG	1.0	U	U	Yes	
N-Nitroso-di-n-propylamine	180	UG/KG	1.0	U	U	Yes	
Hexachloroethane	180	UG/KG	1.0	U	U	Yes	
Nitrobenzene	180	UG/KG	1.0	U	U	Yes	
Isophorone	180	UG/KG	1.0	U	U	Yes	
2-Nitrophenol	180	UG/KG	1.0	U	U	Yes	
2,4-Dimethylphenol	180	UG/KG	1.0	U	U	Yes	
Bis(2-chloroethoxy)methane	180	UG/KG	1.0	U	U	Yes	
2,4-Dichlorophenol	180	UG/KG	1.0	U	U	Yes	
Naphthalene	180	UG/KG	1.0	U	U	Yes	
4-Chloroaniline	180	UG/KG	1.0	U	U	Yes	
Hexachlorobutadiene	180	UG/KG	1.0	U	U	Yes	
Caprolactam	180	UG/KG	1.0	U	U	Yes	
4-Chloro-3-methylphenol	180	UG/KG	1.0	U	U	Yes	
2-Methylnaphthalene	180	UG/KG	1.0	U	U	Yes	
Hexachlorocyclopentadiene	180	UG/KG	1.0	U	U	Yes	
2,4,6-Trichlorophenol	180	UG/KG	1.0	U	U	Yes	
2,4,5-Trichlorophenol	180	UG/KG	1.0	U	U	Yes	
1,1'-Biphenyl	180	UG/KG	1.0	U	U	Yes	
2-Chloronaphthalene	180	UG/KG	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	360	UG/KG	1.0	U	U	Yes	
Dimethylphthalate	180	UG/KG	1.0	U	U	Yes	
2,6-Dinitrotoluene	180	UG/KG	1.0	U	U	Yes	
Acenaphthylene	180	UG/KG	1.0	U	U	Yes	
3-Nitroaniline	360	UG/KG	1.0	U	U	Yes	
Acenaphthene	180	UG/KG	1.0	U	U	Yes	
2,4-Dinitrophenol	360	UG/KG	1.0	U	U	Yes	
4-Nitrophenol	360	UG/KG	1.0	U	U	Yes	
Dibenzofuran	180	UG/KG	1.0	U	U	Yes	
2,4-Dinitrotoluene	180	UG/KG	1.0	U	U	Yes	
Diethylphthalate	180	UG/KG	1.0	U	U	Yes	
Fluorene	180	UG/KG	1.0	U	U	Yes	
4-Chlorophenylphenylether	180	UG/KG	1.0	U	U	Yes	
4-Nitroaniline	360	UG/KG	1.0	U	U	Yes	
4,6-Dinitro-2-methylphenol	360	UG/KG	1.0	U	U	Yes	
N-Nitrosodiphenylamine	180	UG/KG	1.0	U	U	Yes	
1,2,4,5-Tetrachlorobenzene	180	UG/KG	1.0	U	U	Yes	
4-Bromophenylphenylether	180	UG/KG	1.0	U	U	Yes	
Hexachlorobenzene	180	UG/KG	1.0	U	U	Yes	
Atrazine	180	UG/KG	1.0	U	U	Yes	
Pentachlorophenol	360	UG/KG	1.0	U	U	Yes	
Phenanthrene	180	UG/KG	1.0	U	U	Yes	
Anthracene	180	UG/KG	1.0	U	U	Yes	
Carbazole	180	UG/KG	1.0	U	U	Yes	
Di-n-butylphthalate	180	UG/KG	1.0	U	U	Yes	
Fluoranthene	130	UG/KG	1.0	J	J	Yes	
Pyrene	120	UG/KG	1.0	J	J	Yes	
Butylbenzylphthalate	180	UG/KG	1.0	U	U	Yes	
3,3'-Dichlorobenzidine	180	UG/KG	1.0	U	U	Yes	
Benzo(a)anthracene	180	UG/KG	1.0	U	U	Yes	
Chrysene	180	UG/KG	1.0	U	U	Yes	
Bis(2-ethylhexyl)	360	UG/KG	1.0			Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	360	UG/KG	1.0			Yes	
Di-n-octylphthalate	180	UG/KG	1.0	U	U	Yes	
Benzo(b)fluoranthene	180	UG/KG	1.0	U	U	Yes	
Benzo(k)fluoranthene	180	UG/KG	1.0	U	U	Yes	
Benzo(a)pyrene	180	UG/KG	1.0	U	U	Yes	
Indeno(1,2,3-cd)pyrene	180	UG/KG	1.0	U	U	Yes	
Dibenzo(a,h)anthracene	180	UG/KG	1.0	U	U	Yes	
Benzo(g,h,i)perylene	180	UG/KG	1.0	U	U	Yes	
2,3,4,6-Tetrachlorophenol	180	UG/KG	1.0	U	U	Yes	
Pregnan-20-one, (5.alpha.)-			1.0	NJ		Yes	
Benzo[ghi]perylene			1.0	NJ		Yes	

Case No:	43102	Contract:	EPW11031	SDG No:	E3PB2	Lab Code:	KAP
Sample Number:	E3PB9	Method:	Pest	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:	SB-10	pH:	8.5	Sample Date:	11/05/2012	Sample Time:	15:20:00
% Moisture :	10.00			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
alpha-BHC	1.9	UG/KG	1.0	U	U	Yes	
beta-BHC	1.9	UG/KG	1.0	U	U	Yes	
delta-BHC	1.9	UG/KG	1.0	U	U	Yes	
gamma-BHC (Lindane)	1.9	UG/KG	1.0	U	U	Yes	
Heptachlor	1.9	UG/KG	1.0	U	U	Yes	
Aldrin	1.9	UG/KG	1.0	U	U	Yes	
Heptachlor epoxide	1.9	UG/KG	1.0	U	U	Yes	
Endosulfan I	1.9	UG/KG	1.0	U	U	Yes	
Dieldrin	3.6	UG/KG	1.0	U	U	Yes	
4,4'-DDE	3.6	UG/KG	1.0	U	U	Yes	
Endrin	3.6	UG/KG	1.0	U	U	Yes	
Endosulfan II	3.6	UG/KG	1.0	U	U	Yes	
4,4'-DDD	3.6	UG/KG	1.0	U	U	Yes	
Endosulfan sulfate	3.6	UG/KG	1.0	U	U	Yes	
4,4'-DDT	3.6	UG/KG	1.0	U	U	Yes	
Methoxychlor	19	UG/KG	1.0	U	U	Yes	
Endrin ketone	3.6	UG/KG	1.0	U	U	Yes	
Endrin aldehyde	3.6	UG/KG	1.0	U	U	Yes	
alpha-Chlordane	1.9	UG/KG	1.0	U	U	Yes	
gamma- Chlordane	1.9	UG/KG	1.0	U	U	Yes	
Toxaphene	190	UG/KG	1.0	U	U	Yes	

Case No:	43102	Contract:	EPW11031	SDG No:	E3PB2	Lab Code:	KAP
Sample Number:	E3PB9	Method:	BNA	Matrix:	SOIL	MA Number:	DEFAULT
Sample Location:	SB-10	pH:	8.5	Sample Date:	11/05/2012	Sample Time:	15:20:00
% Moisture :	10			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	190	UG/KG	1.0	U	UJ	Yes	
Phenol	190	UG/KG	1.0	U	UJ	Yes	
Bis(2-chloroethyl)ether	190	UG/KG	1.0	U	UJ	Yes	
2-Chlorophenol	190	UG/KG	1.0	U	UJ	Yes	
2-Methylphenol	190	UG/KG	1.0	U	UJ	Yes	
2,2'-Oxybis(1-chloropropane)	190	UG/KG	1.0	U	UJ	Yes	
Acetophenone	190	UG/KG	1.0	U	UJ	Yes	
4-Methylphenol	190	UG/KG	1.0	U	UJ	Yes	
N-Nitroso-di-n-propylamine	190	UG/KG	1.0	U	UJ	Yes	
Hexachloroethane	190	UG/KG	1.0	U	UJ	Yes	
Nitrobenzene	190	UG/KG	1.0	U	UJ	Yes	
Isophorone	190	UG/KG	1.0	U	UJ	Yes	
2-Nitrophenol	190	UG/KG	1.0	U	UJ	Yes	
2,4-Dimethylphenol	190	UG/KG	1.0	U	UJ	Yes	
Bis(2-chloroethoxy)methane	190	UG/KG	1.0	U	UJ	Yes	
2,4-Dichlorophenol	190	UG/KG	1.0	U	UJ	Yes	
Naphthalene	190	UG/KG	1.0	U	UJ	Yes	
4-Chloroaniline	190	UG/KG	1.0	U	UJ	Yes	
Hexachlorobutadiene	190	UG/KG	1.0	U	UJ	Yes	
Caprolactam	190	UG/KG	1.0	U	UJ	Yes	
4-Chloro-3-methylphenol	190	UG/KG	1.0	U	UJ	Yes	
2-Methylnaphthalene	190	UG/KG	1.0	U	UJ	Yes	
Hexachlorocyclopentadiene	190	UG/KG	1.0	U	U	Yes	
2,4,6-Trichlorophenol	190	UG/KG	1.0	U	U	Yes	
2,4,5-Trichlorophenol	190	UG/KG	1.0	U	U	Yes	
1,1'-Biphenyl	190	UG/KG	1.0	U	U	Yes	
2-Chloronaphthalene	190	UG/KG	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	360	UG/KG	1.0	U	U	Yes	
Dimethylphthalate	190	UG/KG	1.0	U	U	Yes	
2,6-Dinitrotoluene	190	UG/KG	1.0	U	U	Yes	
Acenaphthylene	83	UG/KG	1.0	J	J	Yes	
3-Nitroaniline	360	UG/KG	1.0	U	U	Yes	
Acenaphthene	190	UG/KG	1.0	U	U	Yes	
2,4-Dinitrophenol	360	UG/KG	1.0	U	U	Yes	
4-Nitrophenol	360	UG/KG	1.0	U	U	Yes	
Dibenzofuran	190	UG/KG	1.0	U	U	Yes	
2,4-Dinitrotoluene	190	UG/KG	1.0	U	U	Yes	
Diethylphthalate	190	UG/KG	1.0	U	U	Yes	
Fluorene	190	UG/KG	1.0	U	U	Yes	
4-Chlorophenylphenylether	190	UG/KG	1.0	U	U	Yes	
4-Nitroaniline	360	UG/KG	1.0	U	U	Yes	
4,6-Dinitro-2-methylphenol	360	UG/KG	1.0	U	U	Yes	
N-Nitrosodiphenylamine	190	UG/KG	1.0	U	U	Yes	
1,2,4,5-Tetrachlorobenzene	190	UG/KG	1.0	U	U	Yes	
4-Bromophenylphenylether	190	UG/KG	1.0	U	U	Yes	
Hexachlorobenzene	190	UG/KG	1.0	U	U	Yes	
Atrazine	190	UG/KG	1.0	U	U	Yes	
Pentachlorophenol	360	UG/KG	1.0	U	U	Yes	
Phenanthrene	160	UG/KG	1.0	J	J	Yes	
Anthracene	190	UG/KG	1.0	U	U	Yes	
Carbazole	190	UG/KG	1.0	U	U	Yes	
Di-n-butylphthalate	98	UG/KG	1.0	J	J	Yes	
Fluoranthene	580	UG/KG	1.0			Yes	
Pyrene	530	UG/KG	1.0			Yes	
Butylbenzylphthalate	190	UG/KG	1.0	U	U	Yes	
3,3'-Dichlorobenzidine	190	UG/KG	1.0	U	U	Yes	
Benzo(a)anthracene	290	UG/KG	1.0			Yes	
Chrysene	400	UG/KG	1.0			Yes	
Bis(2-ethylhexyl)	190	UG/KG	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	190	UG/KG	1.0	U	U	Yes	
Di-n-octylphthalate	190	UG/KG	1.0	U	U	Yes	
Benzo(b)fluoranthene	300	UG/KG	1.0			Yes	
Benzo(k)fluoranthene	380	UG/KG	1.0			Yes	
Benzo(a)pyrene	320	UG/KG	1.0			Yes	
Indeno(1,2,3-cd)pyrene	280	UG/KG	1.0			Yes	
Dibenzo(a,h)anthracene	120	UG/KG	1.0	J	J	Yes	
Benzo(g,h,i)perylene	310	UG/KG	1.0			Yes	
2,3,4,6-Tetrachlorophenol	190	UG/KG	1.0	U	U	Yes	
Benz[a]anthracene, 7-methyl-			1.0	NJ		Yes	
Total Alkanes			1.0	J		Yes	
1,2-Benzenedicarboxylic acid, bis(2-methylpropyl) ester			1.0	NJ		Yes	

Case No:	43102	Contract:	EPW11031	SDG No:	E3PB2	Lab Code:	KAP
Sample Number:	E3PB9	Method:	Aroclor	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:	SB-10	pH:	8.5	Sample Date:	11/05/2012	Sample Time:	15:20:00
% Moisture :	10			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	36	UG/KG	1.0	U	U	Yes	
Aroclor-1221	36	UG/KG	1.0	U	U	Yes	
Aroclor-1232	36	UG/KG	1.0	U	U	Yes	
Aroclor-1242	36	UG/KG	1.0	U	U	Yes	
Aroclor-1248	36	UG/KG	1.0	U	U	Yes	
Aroclor-1254	36	UG/KG	1.0	U	U	Yes	
Aroclor-1260	36	UG/KG	1.0	U	U	Yes	
Aroclor-1262	36	UG/KG	1.0	U	U	Yes	
Aroclor-1268	36	UG/KG	1.0	U	U	Yes	

Case No:	43102	Contract:	EPW11031	SDG No:	E3PB2	Lab Code:	KAP
Sample Number:	E3PB9RE	Method:	BNA	Matrix:	SOIL	MA Number:	DEFAULT
Sample Location:	SB-10	pH:	8.5	Sample Date:	11/05/2012	Sample Time:	15:20:00
% Moisture :	10			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	190	UG/KG	1.0	U	UJ	Yes	
Phenol	190	UG/KG	1.0	U	UJ	Yes	
Bis(2-chloroethyl)ether	190	UG/KG	1.0	U	UJ	Yes	
2-Chlorophenol	190	UG/KG	1.0	U	UJ	Yes	
2-Methylphenol	190	UG/KG	1.0	U	UJ	Yes	
2,2'-Oxybis(1-chloropropane)	190	UG/KG	1.0	U	UJ	Yes	
Acetophenone	190	UG/KG	1.0	U	UJ	Yes	
4-Methylphenol	190	UG/KG	1.0	U	UJ	Yes	
N-Nitroso-di-n-propylamine	190	UG/KG	1.0	U	UJ	Yes	
Hexachloroethane	190	UG/KG	1.0	U	UJ	Yes	
Nitrobenzene	190	UG/KG	1.0	U	UJ	Yes	
Isophorone	190	UG/KG	1.0	U	UJ	Yes	
2-Nitrophenol	190	UG/KG	1.0	U	UJ	Yes	
2,4-Dimethylphenol	190	UG/KG	1.0	U	UJ	Yes	
Bis(2-chloroethoxy)methane	190	UG/KG	1.0	U	UJ	Yes	
2,4-Dichlorophenol	190	UG/KG	1.0	U	UJ	Yes	
Naphthalene	190	UG/KG	1.0	U	UJ	Yes	
4-Chloroaniline	190	UG/KG	1.0	U	UJ	Yes	
Hexachlorobutadiene	190	UG/KG	1.0	U	UJ	Yes	
Caprolactam	190	UG/KG	1.0	U	UJ	Yes	
4-Chloro-3-methylphenol	190	UG/KG	1.0	U	UJ	Yes	
2-Methylnaphthalene	190	UG/KG	1.0	U	UJ	Yes	
Hexachlorocyclopentadiene	190	UG/KG	1.0	U	U	Yes	
2,4,6-Trichlorophenol	190	UG/KG	1.0	U	U	Yes	
2,4,5-Trichlorophenol	190	UG/KG	1.0	U	U	Yes	
1,1'-Biphenyl	190	UG/KG	1.0	U	U	Yes	
2-Chloronaphthalene	190	UG/KG	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	360	UG/KG	1.0	U	U	Yes	
Dimethylphthalate	190	UG/KG	1.0	U	U	Yes	
2,6-Dinitrotoluene	190	UG/KG	1.0	U	U	Yes	
Acenaphthylene	190	UG/KG	1.0	U	U	Yes	
3-Nitroaniline	360	UG/KG	1.0	U	U	Yes	
Acenaphthene	190	UG/KG	1.0	U	U	Yes	
2,4-Dinitrophenol	360	UG/KG	1.0	U	U	Yes	
4-Nitrophenol	360	UG/KG	1.0	U	U	Yes	
Dibenzofuran	190	UG/KG	1.0	U	U	Yes	
2,4-Dinitrotoluene	190	UG/KG	1.0	U	U	Yes	
Diethylphthalate	190	UG/KG	1.0	U	U	Yes	
Fluorene	190	UG/KG	1.0	U	U	Yes	
4-Chlorophenylphenylether	190	UG/KG	1.0	U	U	Yes	
4-Nitroaniline	360	UG/KG	1.0	U	U	Yes	
4,6-Dinitro-2-methylphenol	360	UG/KG	1.0	U	U	Yes	
N-Nitrosodiphenylamine	190	UG/KG	1.0	U	U	Yes	
1,2,4,5-Tetrachlorobenzene	190	UG/KG	1.0	U	U	Yes	
4-Bromophenylphenylether	190	UG/KG	1.0	U	U	Yes	
Hexachlorobenzene	190	UG/KG	1.0	U	U	Yes	
Atrazine	190	UG/KG	1.0	U	U	Yes	
Pentachlorophenol	360	UG/KG	1.0	U	U	Yes	
Phenanthrene	150	UG/KG	1.0	J	J	Yes	
Anthracene	190	UG/KG	1.0	U	U	Yes	
Carbazole	190	UG/KG	1.0	U	U	Yes	
Di-n-butylphthalate	94	UG/KG	1.0	J	J	Yes	
Fluoranthene	520	UG/KG	1.0			Yes	
Pyrene	500	UG/KG	1.0			Yes	
Butylbenzylphthalate	190	UG/KG	1.0	U	U	Yes	
3,3'-Dichlorobenzidine	190	UG/KG	1.0	U	U	Yes	
Benzo(a)anthracene	300	UG/KG	1.0			Yes	
Chrysene	370	UG/KG	1.0			Yes	
Bis(2-ethylhexyl)	190	UG/KG	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	190	UG/KG	1.0	U	U	Yes	
Di-n-octylphthalate	190	UG/KG	1.0	U	U	Yes	
Benzo(b)fluoranthene	350	UG/KG	1.0			Yes	
Benzo(k)fluoranthene	360	UG/KG	1.0			Yes	
Benzo(a)pyrene	330	UG/KG	1.0			Yes	
Indeno(1,2,3-cd)pyrene	240	UG/KG	1.0			Yes	
Dibenzo(a,h)anthracene	120	UG/KG	1.0	J	J	Yes	
Benzo(g,h,i)perylene	290	UG/KG	1.0			Yes	
2,3,4,6-Tetrachlorophenol	190	UG/KG	1.0	U	U	Yes	
1-Nonadecene			1.0	NJ		Yes	
Benz[a]anthracene, 7-methyl-			1.0	NJ		Yes	
Total Alkanes			1.0	J		Yes	

Case No:	43102	Contract:	EPW11031	SDG No:	E3PB2	Lab Code:	KAP
Sample Number:	E3PC0	Method:	Pest	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:	SB-11	pH:	7.3	Sample Date:	11/06/2012	Sample Time:	08:35:00
% Moisture :	10.00			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
alpha-BHC	1.9	UG/KG	1.0	U	U	Yes	
beta-BHC	1.9	UG/KG	1.0	U	U	Yes	
delta-BHC	1.9	UG/KG	1.0	U	U	Yes	
gamma-BHC (Lindane)	1.9	UG/KG	1.0	U	U	Yes	
Heptachlor	1.9	UG/KG	1.0	U	U	Yes	
Aldrin	1.9	UG/KG	1.0	U	U	Yes	
Heptachlor epoxide	1.9	UG/KG	1.0	U	U	Yes	
Endosulfan I	1.9	UG/KG	1.0	U	U	Yes	
Dieldrin	3.7	UG/KG	1.0	U	U	Yes	
4,4'-DDE	3.7	UG/KG	1.0	U	U	Yes	
Endrin	3.7	UG/KG	1.0	U	U	Yes	
Endosulfan II	3.7	UG/KG	1.0	U	U	Yes	
4,4'-DDD	3.7	UG/KG	1.0	U	U	Yes	
Endosulfan sulfate	3.7	UG/KG	1.0	U	U	Yes	
4,4'-DDT	3.7	UG/KG	1.0	U	U	Yes	
Methoxychlor	19	UG/KG	1.0	U	U	Yes	
Endrin ketone	3.7	UG/KG	1.0	U	U	Yes	
Endrin aldehyde	3.7	UG/KG	1.0	U	U	Yes	
alpha-Chlordane	1.9	UG/KG	1.0	U	U	Yes	
gamma- Chlordane	1.9	UG/KG	1.0	U	U	Yes	
Toxaphene	190	UG/KG	1.0	U	U	Yes	

Case No:	43102	Contract:	EPW11031	SDG No:	E3PB2	Lab Code:	KAP
Sample Number:	E3PC0	Method:	Aroclor	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:	SB-11	pH:	7.3	Sample Date:	11/06/2012	Sample Time:	08:35:00
% Moisture :	10			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	37	UG/KG	1.0	U	U	Yes	
Aroclor-1221	37	UG/KG	1.0	U	U	Yes	
Aroclor-1232	37	UG/KG	1.0	U	U	Yes	
Aroclor-1242	37	UG/KG	1.0	U	U	Yes	
Aroclor-1248	37	UG/KG	1.0	U	U	Yes	
Aroclor-1254	37	UG/KG	1.0	U	U	Yes	
Aroclor-1260	37	UG/KG	1.0	U	U	Yes	
Aroclor-1262	37	UG/KG	1.0	U	U	Yes	
Aroclor-1268	37	UG/KG	1.0	U	U	Yes	

Case No:	43102	Contract:	EPW11031	SDG No:	E3PB2	Lab Code:	KAP
Sample Number:	E3PC0	Method:	BNA	Matrix:	SOIL	MA Number:	DEFAULT
Sample Location:	SB-11	pH:	7.3	Sample Date:	11/06/2012	Sample Time:	08:35:00
% Moisture :	10			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	190	UG/KG	1.0	U	UJ	Yes	
Phenol	190	UG/KG	1.0	U	UJ	Yes	
Bis(2-chloroethyl)ether	190	UG/KG	1.0	U	UJ	Yes	
2-Chlorophenol	190	UG/KG	1.0	U	UJ	Yes	
2-Methylphenol	190	UG/KG	1.0	U	UJ	Yes	
2,2'-Oxybis(1-chloropropane)	190	UG/KG	1.0	U	UJ	Yes	
Acetophenone	190	UG/KG	1.0	U	UJ	Yes	
4-Methylphenol	190	UG/KG	1.0	U	UJ	Yes	
N-Nitroso-di-n-propylamine	190	UG/KG	1.0	U	UJ	Yes	
Hexachloroethane	190	UG/KG	1.0	U	UJ	Yes	
Nitrobenzene	190	UG/KG	1.0	U	U	Yes	
Isophorone	190	UG/KG	1.0	U	U	Yes	
2-Nitrophenol	190	UG/KG	1.0	U	U	Yes	
2,4-Dimethylphenol	190	UG/KG	1.0	U	U	Yes	
Bis(2-chloroethoxy)methane	190	UG/KG	1.0	U	U	Yes	
2,4-Dichlorophenol	190	UG/KG	1.0	U	U	Yes	
Naphthalene	190	UG/KG	1.0	U	U	Yes	
4-Chloroaniline	190	UG/KG	1.0	U	U	Yes	
Hexachlorobutadiene	190	UG/KG	1.0	U	U	Yes	
Caprolactam	190	UG/KG	1.0	U	U	Yes	
4-Chloro-3-methylphenol	190	UG/KG	1.0	U	U	Yes	
2-Methylnaphthalene	190	UG/KG	1.0	U	U	Yes	
Hexachlorocyclopentadiene	190	UG/KG	1.0	U	U	Yes	
2,4,6-Trichlorophenol	190	UG/KG	1.0	U	U	Yes	
2,4,5-Trichlorophenol	190	UG/KG	1.0	U	U	Yes	
1,1'-Biphenyl	190	UG/KG	1.0	U	U	Yes	
2-Chloronaphthalene	190	UG/KG	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	360	UG/KG	1.0	U	U	Yes	
Dimethylphthalate	190	UG/KG	1.0	U	U	Yes	
2,6-Dinitrotoluene	190	UG/KG	1.0	U	U	Yes	
Acenaphthylene	190	UG/KG	1.0	U	U	Yes	
3-Nitroaniline	360	UG/KG	1.0	U	U	Yes	
Acenaphthene	190	UG/KG	1.0	U	U	Yes	
2,4-Dinitrophenol	360	UG/KG	1.0	U	U	Yes	
4-Nitrophenol	360	UG/KG	1.0	U	U	Yes	
Dibenzofuran	190	UG/KG	1.0	U	U	Yes	
2,4-Dinitrotoluene	190	UG/KG	1.0	U	U	Yes	
Diethylphthalate	190	UG/KG	1.0	U	U	Yes	
Fluorene	190	UG/KG	1.0	U	U	Yes	
4-Chlorophenylphenylether	190	UG/KG	1.0	U	U	Yes	
4-Nitroaniline	360	UG/KG	1.0	U	U	Yes	
4,6-Dinitro-2-methylphenol	360	UG/KG	1.0	U	U	Yes	
N-Nitrosodiphenylamine	190	UG/KG	1.0	U	U	Yes	
1,2,4,5-Tetrachlorobenzene	190	UG/KG	1.0	U	U	Yes	
4-Bromophenylphenylether	190	UG/KG	1.0	U	U	Yes	
Hexachlorobenzene	190	UG/KG	1.0	U	U	Yes	
Atrazine	190	UG/KG	1.0	U	U	Yes	
Pentachlorophenol	360	UG/KG	1.0	U	U	Yes	
Phenanthrene	230	UG/KG	1.0			Yes	
Anthracene	190	UG/KG	1.0	U	U	Yes	
Carbazole	190	UG/KG	1.0	U	U	Yes	
Di-n-butylphthalate	190	UG/KG	1.0	U	U	Yes	
Fluoranthene	400	UG/KG	1.0			Yes	
Pyrene	310	UG/KG	1.0			Yes	
Butylbenzylphthalate	190	UG/KG	1.0	U	U	Yes	
3,3'-Dichlorobenzidine	190	UG/KG	1.0	U	U	Yes	
Benzo(a)anthracene	170	UG/KG	1.0	J	J	Yes	
Chrysene	190	UG/KG	1.0			Yes	
Bis(2-ethylhexyl)	190	UG/KG	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	190	UG/KG	1.0	U	U	Yes	
Di-n-octylphthalate	190	UG/KG	1.0	U	U	Yes	
Benzo(b)fluoranthene	150	UG/KG	1.0	J	J	Yes	
Benzo(k)fluoranthene	170	UG/KG	1.0	J	J	Yes	
Benzo(a)pyrene	170	UG/KG	1.0	J	J	Yes	
Indeno(1,2,3-cd)pyrene	110	UG/KG	1.0	J	J	Yes	
Dibenzo(a,h)anthracene	190	UG/KG	1.0	U	U	Yes	
Benzo(g,h,i)perylene	110	UG/KG	1.0	J	J	Yes	
2,3,4,6-Tetrachlorophenol	190	UG/KG	1.0	U	U	Yes	

Case No:	43102	Contract:	EPW11031	SDG No:	E3PB2	Lab Code:	KAP
Sample Number:	E3PC0RE	Method:	BNA	Matrix:	SOIL	MA Number:	DEFAULT
Sample Location:	SB-11	pH:	7.3	Sample Date:	11/06/2012	Sample Time:	08:35:00
% Moisture :	10			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	190	UG/KG	1.0	U	UJ	Yes	
Phenol	190	UG/KG	1.0	U	UJ	Yes	
Bis(2-chloroethyl)ether	190	UG/KG	1.0	U	UJ	Yes	
2-Chlorophenol	190	UG/KG	1.0	U	UJ	Yes	
2-Methylphenol	190	UG/KG	1.0	U	UJ	Yes	
2,2'-Oxybis(1-chloropropane)	190	UG/KG	1.0	U	UJ	Yes	
Acetophenone	190	UG/KG	1.0	U	UJ	Yes	
4-Methylphenol	190	UG/KG	1.0	U	UJ	Yes	
N-Nitroso-di-n-propylamine	190	UG/KG	1.0	U	UJ	Yes	
Hexachloroethane	190	UG/KG	1.0	U	UJ	Yes	
Nitrobenzene	190	UG/KG	1.0	U	UJ	Yes	
Isophorone	190	UG/KG	1.0	U	UJ	Yes	
2-Nitrophenol	190	UG/KG	1.0	U	UJ	Yes	
2,4-Dimethylphenol	190	UG/KG	1.0	U	UJ	Yes	
Bis(2-chloroethoxy)methane	190	UG/KG	1.0	U	UJ	Yes	
2,4-Dichlorophenol	190	UG/KG	1.0	U	UJ	Yes	
Naphthalene	190	UG/KG	1.0	U	UJ	Yes	
4-Chloroaniline	190	UG/KG	1.0	U	UJ	Yes	
Hexachlorobutadiene	190	UG/KG	1.0	U	UJ	Yes	
Caprolactam	190	UG/KG	1.0	U	UJ	Yes	
4-Chloro-3-methylphenol	190	UG/KG	1.0	U	UJ	Yes	
2-Methylnaphthalene	190	UG/KG	1.0	U	UJ	Yes	
Hexachlorocyclopentadiene	190	UG/KG	1.0	U	UJ	Yes	
2,4,6-Trichlorophenol	190	UG/KG	1.0	U	UJ	Yes	
2,4,5-Trichlorophenol	190	UG/KG	1.0	U	UJ	Yes	
1,1'-Biphenyl	190	UG/KG	1.0	U	UJ	Yes	
2-Chloronaphthalene	190	UG/KG	1.0	U	UJ	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	360	UG/KG	1.0	U	UJ	Yes	
Dimethylphthalate	190	UG/KG	1.0	U	UJ	Yes	
2,6-Dinitrotoluene	190	UG/KG	1.0	U	UJ	Yes	
Acenaphthylene	190	UG/KG	1.0	U	UJ	Yes	
3-Nitroaniline	360	UG/KG	1.0	U	UJ	Yes	
Acenaphthene	190	UG/KG	1.0	U	UJ	Yes	
2,4-Dinitrophenol	360	UG/KG	1.0	U	UJ	Yes	
4-Nitrophenol	360	UG/KG	1.0	U	UJ	Yes	
Dibenzofuran	190	UG/KG	1.0	U	UJ	Yes	
2,4-Dinitrotoluene	190	UG/KG	1.0	U	UJ	Yes	
Diethylphthalate	190	UG/KG	1.0	U	UJ	Yes	
Fluorene	190	UG/KG	1.0	U	UJ	Yes	
4-Chlorophenylphenylether	190	UG/KG	1.0	U	UJ	Yes	
4-Nitroaniline	360	UG/KG	1.0	U	UJ	Yes	
4,6-Dinitro-2-methylphenol	360	UG/KG	1.0	U	U	Yes	
N-Nitrosodiphenylamine	190	UG/KG	1.0	U	U	Yes	
1,2,4,5-Tetrachlorobenzene	190	UG/KG	1.0	U	UJ	Yes	
4-Bromophenylphenylether	190	UG/KG	1.0	U	U	Yes	
Hexachlorobenzene	190	UG/KG	1.0	U	U	Yes	
Atrazine	190	UG/KG	1.0	U	U	Yes	
Pentachlorophenol	360	UG/KG	1.0	U	U	Yes	
Phenanthrene	190	UG/KG	1.0	U	U	Yes	
Anthracene	190	UG/KG	1.0	U	U	Yes	
Carbazole	190	UG/KG	1.0	U	U	Yes	
Di-n-butylphthalate	190	UG/KG	1.0	U	U	Yes	
Fluoranthene	400	UG/KG	1.0			Yes	
Pyrene	300	UG/KG	1.0			Yes	
Butylbenzylphthalate	190	UG/KG	1.0	U	U	Yes	
3,3'-Dichlorobenzidine	190	UG/KG	1.0	U	U	Yes	
Benzo(a)anthracene	160	UG/KG	1.0	J	J	Yes	
Chrysene	180	UG/KG	1.0	J	J	Yes	
Bis(2-ethylhexyl)	190	UG/KG	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	190	UG/KG	1.0	U	U	Yes	
Di-n-octylphthalate	190	UG/KG	1.0	U	U	Yes	
Benzo(b)fluoranthene	120	UG/KG	1.0	J	J	Yes	
Benzo(k)fluoranthene	150	UG/KG	1.0	J	J	Yes	
Benzo(a)pyrene	150	UG/KG	1.0	J	J	Yes	
Indeno(1,2,3-cd)pyrene	86	UG/KG	1.0	J	J	Yes	
Dibenzo(a,h)anthracene	190	UG/KG	1.0	U	U	Yes	
Benzo(g,h,i)perylene	89	UG/KG	1.0	J	J	Yes	
2,3,4,6-Tetrachlorophenol	190	UG/KG	1.0	U	UJ	Yes	

Case No:	43102	Contract:	EPW11031	SDG No:	E3PB2	Lab Code:	KAP
Sample Number:	E3PC1	Method:	Pest	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:	SB-12	pH:	8.2	Sample Date:	11/06/2012	Sample Time:	10:55:00
% Moisture :	7.00			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
alpha-BHC	1.8	UG/KG	1.0	U	U	Yes	
beta-BHC	1.8	UG/KG	1.0	U	U	Yes	
delta-BHC	1.8	UG/KG	1.0	U	U	Yes	
gamma-BHC (Lindane)	1.8	UG/KG	1.0	U	U	Yes	
Heptachlor	1.8	UG/KG	1.0	U	U	Yes	
Aldrin	1.8	UG/KG	1.0	U	U	Yes	
Heptachlor epoxide	1.8	UG/KG	1.0	U	U	Yes	
Endosulfan I	1.8	UG/KG	1.0	U	U	Yes	
Dieldrin	3.5	UG/KG	1.0	U	U	Yes	
4,4'-DDE	3.5	UG/KG	1.0	U	U	Yes	
Endrin	3.5	UG/KG	1.0	U	U	Yes	
Endosulfan II	3.5	UG/KG	1.0	U	U	Yes	
4,4'-DDD	3.5	UG/KG	1.0	U	U	Yes	
Endosulfan sulfate	3.5	UG/KG	1.0	U	U	Yes	
4,4'-DDT	3.5	UG/KG	1.0	U	U	Yes	
Methoxychlor	18	UG/KG	1.0	U	U	Yes	
Endrin ketone	3.5	UG/KG	1.0	U	U	Yes	
Endrin aldehyde	3.5	UG/KG	1.0	U	U	Yes	
alpha-Chlordane	1.8	UG/KG	1.0	U	U	Yes	
gamma- Chlordane	1.8	UG/KG	1.0	U	U	Yes	
Toxaphene	180	UG/KG	1.0	U	U	Yes	

Case No:	43102	Contract:	EPW11031	SDG No:	E3PB2	Lab Code:	KAP
Sample Number:	E3PC1	Method:	Aroclor	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:	SB-12	pH:	8.2	Sample Date:	11/06/2012	Sample Time:	10:55:00
% Moisture :	7.0			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	35	UG/KG	1.0	U	U	Yes	
Aroclor-1221	35	UG/KG	1.0	U	U	Yes	
Aroclor-1232	35	UG/KG	1.0	U	U	Yes	
Aroclor-1242	35	UG/KG	1.0	U	U	Yes	
Aroclor-1248	35	UG/KG	1.0	U	U	Yes	
Aroclor-1254	35	UG/KG	1.0	U	U	Yes	
Aroclor-1260	35	UG/KG	1.0	U	U	Yes	
Aroclor-1262	35	UG/KG	1.0	U	U	Yes	
Aroclor-1268	35	UG/KG	1.0	U	U	Yes	

Case No:	43102	Contract:	EPW11031	SDG No:	E3PB2	Lab Code:	KAP
Sample Number:	E3PC1	Method:	BNA	Matrix:	SOIL	MA Number:	DEFAULT
Sample Location:	SB-12	pH:	8.2	Sample Date:	11/06/2012	Sample Time:	10:55:00
% Moisture :	7.0			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	180	UG/KG	1.0	U	UJ	Yes	
Phenol	180	UG/KG	1.0	U	UJ	Yes	
Bis(2-chloroethyl)ether	180	UG/KG	1.0	U	UJ	Yes	
2-Chlorophenol	180	UG/KG	1.0	U	UJ	Yes	
2-Methylphenol	180	UG/KG	1.0	U	UJ	Yes	
2,2'-Oxybis(1-chloropropane)	180	UG/KG	1.0	U	UJ	Yes	
Acetophenone	180	UG/KG	1.0	U	UJ	Yes	
4-Methylphenol	180	UG/KG	1.0	U	UJ	Yes	
N-Nitroso-di-n-propylamine	180	UG/KG	1.0	U	UJ	Yes	
Hexachloroethane	180	UG/KG	1.0	U	UJ	Yes	
Nitrobenzene	180	UG/KG	1.0	U	UJ	Yes	
Isophorone	180	UG/KG	1.0	U	UJ	Yes	
2-Nitrophenol	180	UG/KG	1.0	U	UJ	Yes	
2,4-Dimethylphenol	180	UG/KG	1.0	U	UJ	Yes	
Bis(2-chloroethoxy)methane	180	UG/KG	1.0	U	UJ	Yes	
2,4-Dichlorophenol	180	UG/KG	1.0	U	UJ	Yes	
Naphthalene	180	UG/KG	1.0	U	UJ	Yes	
4-Chloroaniline	180	UG/KG	1.0	U	UJ	Yes	
Hexachlorobutadiene	180	UG/KG	1.0	U	UJ	Yes	
Caprolactam	180	UG/KG	1.0	U	UJ	Yes	
4-Chloro-3-methylphenol	180	UG/KG	1.0	U	UJ	Yes	
2-Methylnaphthalene	180	UG/KG	1.0	U	UJ	Yes	
Hexachlorocyclopentadiene	180	UG/KG	1.0	U	UJ	Yes	
2,4,6-Trichlorophenol	180	UG/KG	1.0	U	UJ	Yes	
2,4,5-Trichlorophenol	180	UG/KG	1.0	U	UJ	Yes	
1,1'-Biphenyl	180	UG/KG	1.0	U	UJ	Yes	
2-Chloronaphthalene	180	UG/KG	1.0	U	UJ	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	350	UG/KG	1.0	U	UJ	Yes	
Dimethylphthalate	180	UG/KG	1.0	U	UJ	Yes	
2,6-Dinitrotoluene	180	UG/KG	1.0	U	UJ	Yes	
Acenaphthylene	180	UG/KG	1.0	U	UJ	Yes	
3-Nitroaniline	350	UG/KG	1.0	U	UJ	Yes	
Acenaphthene	180	UG/KG	1.0	U	UJ	Yes	
2,4-Dinitrophenol	350	UG/KG	1.0	U	UJ	Yes	
4-Nitrophenol	350	UG/KG	1.0	U	UJ	Yes	
Dibenzofuran	180	UG/KG	1.0	U	UJ	Yes	
2,4-Dinitrotoluene	180	UG/KG	1.0	U	UJ	Yes	
Diethylphthalate	180	UG/KG	1.0	U	UJ	Yes	
Fluorene	180	UG/KG	1.0	U	UJ	Yes	
4-Chlorophenylphenylether	180	UG/KG	1.0	U	UJ	Yes	
4-Nitroaniline	350	UG/KG	1.0	U	UJ	Yes	
4,6-Dinitro-2-methylphenol	350	UG/KG	1.0	U	U	Yes	
N-Nitrosodiphenylamine	180	UG/KG	1.0	U	U	Yes	
1,2,4,5-Tetrachlorobenzene	180	UG/KG	1.0	U	UJ	Yes	
4-Bromophenylphenylether	180	UG/KG	1.0	U	U	Yes	
Hexachlorobenzene	180	UG/KG	1.0	U	U	Yes	
Atrazine	180	UG/KG	1.0	U	U	Yes	
Pentachlorophenol	350	UG/KG	1.0	U	U	Yes	
Phenanthrene	180	UG/KG	1.0	U	U	Yes	
Anthracene	180	UG/KG	1.0	U	U	Yes	
Carbazole	180	UG/KG	1.0	U	U	Yes	
Di-n-butylphthalate	180	UG/KG	1.0	U	U	Yes	
Fluoranthene	180	UG/KG	1.0	U	U	Yes	
Pyrene	180	UG/KG	1.0	U	U	Yes	
Butylbenzylphthalate	180	UG/KG	1.0	U	U	Yes	
3,3'-Dichlorobenzidine	180	UG/KG	1.0	U	U	Yes	
Benzo(a)anthracene	180	UG/KG	1.0	U	U	Yes	
Chrysene	180	UG/KG	1.0	U	U	Yes	
Bis(2-ethylhexyl)	180	UG/KG	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	180	UG/KG	1.0	U	U	Yes	
Di-n-octylphthalate	180	UG/KG	1.0	U	U	Yes	
Benzo(b)fluoranthene	180	UG/KG	1.0	U	U	Yes	
Benzo(k)fluoranthene	180	UG/KG	1.0	U	U	Yes	
Benzo(a)pyrene	180	UG/KG	1.0	U	U	Yes	
Indeno(1,2,3-cd)pyrene	180	UG/KG	1.0	U	U	Yes	
Dibenzo(a,h)anthracene	180	UG/KG	1.0	U	U	Yes	
Benzo(g,h,i)perylene	180	UG/KG	1.0	U	U	Yes	
2,3,4,6-Tetrachlorophenol	180	UG/KG	1.0	U	UJ	Yes	
Cyclobutene, bis(1-methylethylidene)-			1.0	NJ		Yes	
1,3,8-p-Menthatriene			1.0	NJ		Yes	

Case No:	43102	Contract:	EPW11031	SDG No:	E3PB2	Lab Code:	KAP
Sample Number:	E3PC1RE	Method:	BNA	Matrix:	SOIL	MA Number:	DEFAULT
Sample Location:	SB-12	pH:	8.2	Sample Date:	11/06/2012	Sample Time:	10:55:00
% Moisture :	7.0			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	180	UG/KG	1.0	U	UJ	Yes	
Phenol	180	UG/KG	1.0	U	UJ	Yes	
Bis(2-chloroethyl)ether	180	UG/KG	1.0	U	UJ	Yes	
2-Chlorophenol	180	UG/KG	1.0	U	UJ	Yes	
2-Methylphenol	180	UG/KG	1.0	U	UJ	Yes	
2,2'-Oxybis(1-chloropropane)	180	UG/KG	1.0	U	UJ	Yes	
Acetophenone	180	UG/KG	1.0	U	UJ	Yes	
4-Methylphenol	180	UG/KG	1.0	U	UJ	Yes	
N-Nitroso-di-n-propylamine	180	UG/KG	1.0	U	UJ	Yes	
Hexachloroethane	180	UG/KG	1.0	U	UJ	Yes	
Nitrobenzene	180	UG/KG	1.0	U	UJ	Yes	
Isophorone	180	UG/KG	1.0	U	UJ	Yes	
2-Nitrophenol	180	UG/KG	1.0	U	UJ	Yes	
2,4-Dimethylphenol	180	UG/KG	1.0	U	UJ	Yes	
Bis(2-chloroethoxy)methane	180	UG/KG	1.0	U	UJ	Yes	
2,4-Dichlorophenol	180	UG/KG	1.0	U	UJ	Yes	
Naphthalene	180	UG/KG	1.0	U	UJ	Yes	
4-Chloroaniline	180	UG/KG	1.0	U	UJ	Yes	
Hexachlorobutadiene	180	UG/KG	1.0	U	UJ	Yes	
Caprolactam	180	UG/KG	1.0	U	UJ	Yes	
4-Chloro-3-methylphenol	180	UG/KG	1.0	U	UJ	Yes	
2-Methylnaphthalene	180	UG/KG	1.0	U	UJ	Yes	
Hexachlorocyclopentadiene	180	UG/KG	1.0	U	UJ	Yes	
2,4,6-Trichlorophenol	180	UG/KG	1.0	U	UJ	Yes	
2,4,5-Trichlorophenol	180	UG/KG	1.0	U	UJ	Yes	
1,1'-Biphenyl	180	UG/KG	1.0	U	UJ	Yes	
2-Chloronaphthalene	180	UG/KG	1.0	U	UJ	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	350	UG/KG	1.0	U	UJ	Yes	
Dimethylphthalate	180	UG/KG	1.0	U	UJ	Yes	
2,6-Dinitrotoluene	180	UG/KG	1.0	U	UJ	Yes	
Acenaphthylene	180	UG/KG	1.0	U	UJ	Yes	
3-Nitroaniline	350	UG/KG	1.0	U	UJ	Yes	
Acenaphthene	180	UG/KG	1.0	U	UJ	Yes	
2,4-Dinitrophenol	350	UG/KG	1.0	U	UJ	Yes	
4-Nitrophenol	350	UG/KG	1.0	U	UJ	Yes	
Dibenzofuran	180	UG/KG	1.0	U	UJ	Yes	
2,4-Dinitrotoluene	180	UG/KG	1.0	U	UJ	Yes	
Diethylphthalate	180	UG/KG	1.0	U	UJ	Yes	
Fluorene	180	UG/KG	1.0	U	UJ	Yes	
4-Chlorophenylphenylether	180	UG/KG	1.0	U	UJ	Yes	
4-Nitroaniline	350	UG/KG	1.0	U	UJ	Yes	
4,6-Dinitro-2-methylphenol	350	UG/KG	1.0	U	U	Yes	
N-Nitrosodiphenylamine	180	UG/KG	1.0	U	U	Yes	
1,2,4,5-Tetrachlorobenzene	180	UG/KG	1.0	U	UJ	Yes	
4-Bromophenylphenylether	180	UG/KG	1.0	U	U	Yes	
Hexachlorobenzene	180	UG/KG	1.0	U	U	Yes	
Atrazine	180	UG/KG	1.0	U	U	Yes	
Pentachlorophenol	350	UG/KG	1.0	U	U	Yes	
Phenanthrene	180	UG/KG	1.0	U	U	Yes	
Anthracene	180	UG/KG	1.0	U	U	Yes	
Carbazole	180	UG/KG	1.0	U	U	Yes	
Di-n-butylphthalate	180	UG/KG	1.0	U	U	Yes	
Fluoranthene	180	UG/KG	1.0	U	U	Yes	
Pyrene	180	UG/KG	1.0	U	U	Yes	
Butylbenzylphthalate	180	UG/KG	1.0	U	U	Yes	
3,3'-Dichlorobenzidine	180	UG/KG	1.0	U	U	Yes	
Benzo(a)anthracene	180	UG/KG	1.0	U	U	Yes	
Chrysene	180	UG/KG	1.0	U	U	Yes	
Bis(2-ethylhexyl)	180	UG/KG	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	180	UG/KG	1.0	U	U	Yes	
Di-n-octylphthalate	180	UG/KG	1.0	U	U	Yes	
Benzo(b)fluoranthene	180	UG/KG	1.0	U	U	Yes	
Benzo(k)fluoranthene	180	UG/KG	1.0	U	U	Yes	
Benzo(a)pyrene	180	UG/KG	1.0	U	U	Yes	
Indeno(1,2,3-cd)pyrene	180	UG/KG	1.0	U	U	Yes	
Dibenzo(a,h)anthracene	180	UG/KG	1.0	U	U	Yes	
Benzo(g,h,i)perylene	180	UG/KG	1.0	U	U	Yes	
2,3,4,6-Tetrachlorophenol	180	UG/KG	1.0	U	UJ	Yes	
Benzofuran, 2,3-dihydro-2-methyl-			1.0	NJ		Yes	

Case No:	43102	Contract:	EPW11031	SDG No:	E3PB2	Lab Code:	KAP
Sample Number:	PBLK78	Method:	Pest	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:		pH:		Sample Date:		Sample Time:	
% Moisture :	0.00			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
alpha-BHC	1.7	UG/KG	1.0	U	U	Yes	
beta-BHC	1.7	UG/KG	1.0	U	U	Yes	
delta-BHC	1.7	UG/KG	1.0	U	U	Yes	
gamma-BHC (Lindane)	1.7	UG/KG	1.0	U	U	Yes	
Heptachlor	1.7	UG/KG	1.0	U	U	Yes	
Aldrin	1.7	UG/KG	1.0	U	U	Yes	
Heptachlor epoxide	1.7	UG/KG	1.0	U	U	Yes	
Endosulfan I	1.7	UG/KG	1.0	U	U	Yes	
Dieldrin	3.3	UG/KG	1.0	U	U	Yes	
4,4'-DDE	3.3	UG/KG	1.0	U	U	Yes	
Endrin	3.3	UG/KG	1.0	U	U	Yes	
Endosulfan II	3.3	UG/KG	1.0	U	U	Yes	
4,4'-DDD	3.3	UG/KG	1.0	U	U	Yes	
Endosulfan sulfate	3.3	UG/KG	1.0	U	U	Yes	
4,4'-DDT	3.3	UG/KG	1.0	U	U	Yes	
Methoxychlor	17	UG/KG	1.0	U	U	Yes	
Endrin ketone	3.3	UG/KG	1.0	U	U	Yes	
Endrin aldehyde	3.3	UG/KG	1.0	U	U	Yes	
alpha-Chlordane	1.7	UG/KG	1.0	U	U	Yes	
gamma- Chlordane	1.7	UG/KG	1.0	U	U	Yes	
Toxaphene	170	UG/KG	1.0	U	U	Yes	

Case No:	43102	Contract:	EPW11031	SDG No:	E3PB2	Lab Code:	KAP
Sample Number:	SBLK61	Method:	BNA	Matrix:	SOIL	MA Number:	DEFAULT
Sample Location:		pH:		Sample Date:		Sample Time:	
% Moisture :	0.00			% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	170	UG/KG	1.0	U	U	Yes	
Phenol	170	UG/KG	1.0	U	U	Yes	
Bis(2-chloroethyl)ether	170	UG/KG	1.0	U	U	Yes	
2-Chlorophenol	170	UG/KG	1.0	U	U	Yes	
2-Methylphenol	170	UG/KG	1.0	U	U	Yes	
2,2'-Oxybis(1-chloropropane)	170	UG/KG	1.0	U	U	Yes	
Acetophenone	170	UG/KG	1.0	U	U	Yes	
4-Methylphenol	170	UG/KG	1.0	U	U	Yes	
N-Nitroso-di-n-propylamine	170	UG/KG	1.0	U	U	Yes	
Hexachloroethane	170	UG/KG	1.0	U	U	Yes	
Nitrobenzene	170	UG/KG	1.0	U	U	Yes	
Isophorone	170	UG/KG	1.0	U	U	Yes	
2-Nitrophenol	170	UG/KG	1.0	U	U	Yes	
2,4-Dimethylphenol	170	UG/KG	1.0	U	U	Yes	
Bis(2-chloroethoxy)methane	170	UG/KG	1.0	U	U	Yes	
2,4-Dichlorophenol	170	UG/KG	1.0	U	U	Yes	
Naphthalene	170	UG/KG	1.0	U	U	Yes	
4-Chloroaniline	170	UG/KG	1.0	U	U	Yes	
Hexachlorobutadiene	170	UG/KG	1.0	U	U	Yes	
Caprolactam	170	UG/KG	1.0	U	U	Yes	
4-Chloro-3-methylphenol	170	UG/KG	1.0	U	U	Yes	
2-Methylnaphthalene	170	UG/KG	1.0	U	U	Yes	
Hexachlorocyclopentadiene	170	UG/KG	1.0	U	U	Yes	
2,4,6-Trichlorophenol	170	UG/KG	1.0	U	U	Yes	
2,4,5-Trichlorophenol	170	UG/KG	1.0	U	U	Yes	
1,1'-Biphenyl	170	UG/KG	1.0	U	U	Yes	
2-Chloronaphthalene	170	UG/KG	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	330	UG/KG	1.0	U	U	Yes	
Dimethylphthalate	170	UG/KG	1.0	U	U	Yes	
2,6-Dinitrotoluene	170	UG/KG	1.0	U	U	Yes	
Acenaphthylene	170	UG/KG	1.0	U	U	Yes	
3-Nitroaniline	330	UG/KG	1.0	U	U	Yes	
Acenaphthene	170	UG/KG	1.0	U	U	Yes	
2,4-Dinitrophenol	330	UG/KG	1.0	U	U	Yes	
4-Nitrophenol	330	UG/KG	1.0	U	U	Yes	
Dibenzofuran	170	UG/KG	1.0	U	U	Yes	
2,4-Dinitrotoluene	170	UG/KG	1.0	U	U	Yes	
Diethylphthalate	170	UG/KG	1.0	U	U	Yes	
Fluorene	170	UG/KG	1.0	U	U	Yes	
4-Chlorophenylphenylether	170	UG/KG	1.0	U	U	Yes	
4-Nitroaniline	330	UG/KG	1.0	U	U	Yes	
4,6-Dinitro-2-methylphenol	330	UG/KG	1.0	U	U	Yes	
N-Nitrosodiphenylamine	170	UG/KG	1.0	U	U	Yes	
1,2,4,5-Tetrachlorobenzene	170	UG/KG	1.0	U	U	Yes	
4-Bromophenylphenylether	170	UG/KG	1.0	U	U	Yes	
Hexachlorobenzene	170	UG/KG	1.0	U	U	Yes	
Atrazine	170	UG/KG	1.0	U	U	Yes	
Pentachlorophenol	330	UG/KG	1.0	U	U	Yes	
Phenanthrene	170	UG/KG	1.0	U	U	Yes	
Anthracene	170	UG/KG	1.0	U	U	Yes	
Carbazole	170	UG/KG	1.0	U	U	Yes	
Di-n-butylphthalate	170	UG/KG	1.0	U	U	Yes	
Fluoranthene	170	UG/KG	1.0	U	U	Yes	
Pyrene	170	UG/KG	1.0	U	U	Yes	
Butylbenzylphthalate	170	UG/KG	1.0	U	U	Yes	
3,3'-Dichlorobenzidine	170	UG/KG	1.0	U	U	Yes	
Benzo(a)anthracene	170	UG/KG	1.0	U	U	Yes	
Chrysene	170	UG/KG	1.0	U	U	Yes	
Bis(2-ethylhexyl)	170	UG/KG	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	170	UG/KG	1.0	U	U	Yes	
Di-n-octylphthalate	170	UG/KG	1.0	U	U	Yes	
Benzo(b)fluoranthene	170	UG/KG	1.0	U	U	Yes	
Benzo(k)fluoranthene	170	UG/KG	1.0	U	U	Yes	
Benzo(a)pyrene	170	UG/KG	1.0	U	U	Yes	
Indeno(1,2,3-cd)pyrene	170	UG/KG	1.0	U	U	Yes	
Dibenzo(a,h)anthracene	170	UG/KG	1.0	U	U	Yes	
Benzo(g,h,i)perylene	170	UG/KG	1.0	U	U	Yes	
2,3,4,6-Tetrachlorophenol	170	UG/KG	1.0	U	U	Yes	

National Functional Guidelines Report #09

Lab KAP(KAP Technologies, Inc.) SDG E3PB2 Case 43102 Contract EPW11031 Region 5 DDTID 166047 SOW SOM01.2

Tentatively Identified Compounds

BNA Sample=E3PB2 Location=SB-03 Matrix=SOIL Level=LOW

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
	Unknown-01	14.63	190	UG/KG	J
000205-99-2	Benz[e]acephenanthrylene	18.37	200	UG/KG	NJ

National Functional Guidelines Report #09

Lab KAP(KAP Technologies, Inc.) SDG E3PB2 Case 43102 Contract EPW11031 Region 5 DDTID 166047 SOW SOM01.2

Tentatively Identified Compounds

BNA Sample=E3PB4 Location=SB-05 Matrix=SOIL Level=LOW

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
	Unknown-01	14.63	750	UG/KG	J
	Unknown-02	14.99	1400	UG/KG	J
	Unknown-03	15.21	550	UG/KG	J
	Unknown-04	15.32	490	UG/KG	J
	Unknown-05	15.44	640	UG/KG	J
	Unknown-06	15.50	730	UG/KG	J
1000210-28-9	7-Isopropyl-1,1,4a-trimethyl-1,2,3,4,4a,9,10,10a-octahydrophenanthrene	15.57	1100	UG/KG	NJ
	Unknown-07	16.22	350	UG/KG	J
	Unknown-08	16.50	370	UG/KG	J
	Unknown-09	16.79	320	UG/KG	J
064401-21-4	Pyrene, 1,3-dimethyl-	16.88	440	UG/KG	NJ
	Unknown-10	16.98	350	UG/KG	J
	Unknown-11	17.32	420	UG/KG	J
	Unknown-12	17.45	370	UG/KG	J
003697-24-3	Chrysene, 6-methyl-	17.56	540	UG/KG	NJ
	Unknown-13	17.66	600	UG/KG	J
	Unknown-14	17.76	580	UG/KG	J
	Unknown-15	17.82	520	UG/KG	J
	Unknown-16	17.94	520	UG/KG	J
017750-93-5	7,8,9,10-Tetrahydrobenzo[a]pyrene	18.00	600	UG/KG	NJ
	Unknown-17	18.13	390	UG/KG	J
	Unknown-18	19.19	450	UG/KG	J
	Unknown-19	19.37	450	UG/KG	J
	Unknown-20	19.56	510	UG/KG	J
	Unknown-21	20.13	620	UG/KG	J

National Functional Guidelines Report #09

Lab KAP(KAP Technologies, Inc.) **SDG** E3PB2 **Case** 43102 **Contract** EPW11031 **Region** 5 **DDTID** 166047 **SOW** SOM01.2

Tentatively Identified Compounds

BNA Sample=E3PB4 Location=SB-05 Matrix=SOIL Level=LOW

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
	Unknown-22	20.33	440	UG/KG	J
	Unknown-23	21.11	400	UG/KG	J

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Lab KAP(KAP Technologies, Inc.) **SDG** E3PB2 **Case** 43102 **Contract** EPW11031 **Region** 5 **DDTID** 166047 **SOW** SOM01.2

Tentatively Identified Compounds

BNA Sample=E3PB5 Location=SB-06 Matrix=SOIL Level=LOW

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
E966796	Total Alkanes	0.00	1000	UG/KG	J
	Unknown-01	15.67	600	UG/KG	J

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Lab KAP(KAP Technologies, Inc.) SDG E3PB2 Case 43102 Contract EPW11031 Region 5 DDTID 166047 SOW SOM01.2

Tentatively Identified Compounds

BNA Sample=E3PB7 Location=SB-08 Matrix=SOIL Level=LOW

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
000090-12-0	Naphthalene, 1-methyl-	10.30	660	UG/KG	NJ
035953-53-8	2-Tetradecene, (E)-	11.23	520	UG/KG	NJ
000829-26-5	Naphthalene, 2,3,6-trimethyl-	12.84	580	UG/KG	NJ
000643-58-3	1,1'-Biphenyl, 2-methyl-	13.26	810	UG/KG	NJ
000243-17-4	11H-Benzo[b]fluorene	16.26	700	UG/KG	NJ
033543-31-6	Fluoranthene, 2-methyl-	16.37	560	UG/KG	NJ
002381-21-7	Pyrene, 1-methyl-	16.49	710	UG/KG	NJ
000084-15-1	o-Terphenyl	16.69	620	UG/KG	NJ
000082-05-3	7H-Benz[de]anthracen-7-one	16.79	680	UG/KG	NJ
000217-59-4	Triphenylene	16.92	950	UG/KG	NJ
025732-74-5	Cyclopenta(cd)pyrene, 3,4-dihydro-	17.26	540	UG/KG	NJ
000239-01-0	11H-Benzo[a]carbazole	17.34	540	UG/KG	NJ
000205-25-4	7H-Benzo[c]carbazole	17.40	760	UG/KG	NJ
001705-84-6	Triphenylene, 2-methyl-	17.57	620	UG/KG	NJ
	Unknown-01	17.73	600	UG/KG	J
000612-78-2	2,2'-Binaphthalene	17.80	670	UG/KG	NJ
	Unknown-02	17.98	890	UG/KG	J
	Unknown-03	18.20	690	UG/KG	J
000192-97-2	Benzo[e]pyrene	18.53	820	UG/KG	NJ
	Unknown-04	19.24	520	UG/KG	J
	Unknown-05	19.37	800	UG/KG	J
	Unknown-06	19.52	610	UG/KG	J
	Unknown-07	19.86	570	UG/KG	J
	Unknown-08	20.12	950	UG/KG	J
	Unknown-09	20.33	550	UG/KG	J
	Unknown-10	20.43	690	UG/KG	J
000213-46-7	1,2:7,8-Dibenzophenanthrene	21.12	560	UG/KG	NJ

National Functional Guidelines Report #09

Lab KAP(KAP Technologies, Inc.) SDG E3PB2 Case 43102 Contract EPW11031 Region 5 DDTID 166047 SOW SOM01.2

Tentatively Identified Compounds

BNA Sample=E3PB7 Location=SB-08 Matrix=SOIL Level=LOW

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
000215-58-7	Benzo[b]triphenylene	21.21	580	UG/KG	NJ
000191-26-4	Dibenzo[def,mno]chrysene	21.80	920	UG/KG	NJ

National Functional Guidelines Report #09

Lab KAP(KAP Technologies, Inc.) SDG E3PB2 Case 43102 Contract EPW11031 Region 5 DDTID 166047 SOW SOM01.2

Tentatively Identified Compounds

BNA Sample=E3PB7DL Location=SB-08 Matrix=SOIL Level=LOW

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
	Unknown-01	18.12	2100	UG/KG	DJ
	Unknown-02	18.23	1900	UG/KG	DJ
000205-99-2	Benz[e]acephenanthrylene	18.45	3000	UG/KG	DNJ
000207-93-2	Dinaphtho[1,2-b:1',2'-d]furan	18.57	1900	UG/KG	DNJ
000220-97-3	11H-Indeno[2,1-a]phenanthrene	19.08	1800	UG/KG	DNJ
	Unknown-03	19.14	2100	UG/KG	DJ
024471-47-4	Perylene, 3-methyl-	19.27	1700	UG/KG	DNJ
	Unknown-04	19.42	2400	UG/KG	DJ
	Unknown-05	19.56	2200	UG/KG	DJ
	Unknown-06	20.01	2300	UG/KG	DJ
	Unknown-07	20.54	2100	UG/KG	DJ
000215-58-7	Benzo[b]triphenylene	20.97	1900	UG/KG	DNJ
000213-46-7	1,2:7,8-Dibenzophenanthrene	21.06	2100	UG/KG	DNJ
000191-26-4	Dibenzo[def,mno]chrysene	21.62	2300	UG/KG	DNJ
	Unknown-08	22.40	2100	UG/KG	DJ
	Unknown-09	22.64	2100	UG/KG	DJ
	Unknown-10	22.95	2000	UG/KG	DJ
000192-65-4	1,2:4,5-Dibenzopyrene	24.43	3200	UG/KG	DNJ
000192-65-4	1,2:4,5-Dibenzopyrene	24.70	2000	UG/KG	DNJ
000192-65-4	1,2:4,5-Dibenzopyrene	24.85	1800	UG/KG	DNJ

National Functional Guidelines Report #09

Lab KAP(KAP Technologies, Inc.) SDG E3PB2 Case 43102 Contract EPW11031 Region 5 DDTID 166047 SOW SOM01.2

Tentatively Identified Compounds

BNA Sample=E3PB8 Location=SB-09 Matrix=SOIL Level=LOW

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
000848-62-4	Pregnan-20-one, (5.alpha.)-	17.58	600	UG/KG	NJ
000191-24-2	Benzo[ghi]perylene	20.86	480	UG/KG	NJ

National Functional Guidelines Report #09

Lab KAP(KAP Technologies, Inc.) SDG E3PB2 Case 43102 Contract EPW11031 Region 5 DDTID 166047 SOW SOM01.2

Tentatively Identified Compounds

BNA Sample=E3PB9 Location=SB-10 Matrix=SOIL Level=LOW

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
E966796	Total Alkanes	0.00	1500	UG/KG	J
000084-69-5	1,2-Benzenedicarboxylic acid, bis(2-methylpropyl) ester	14.64	560	UG/KG	NJ
	Unknown-01	15.32	350	UG/KG	J
	Unknown-02	15.45	640	UG/KG	J
	Unknown-03	16.92	500	UG/KG	J
002541-69-7	Benz[a]anthracene, 7-methyl-	17.58	490	UG/KG	NJ
	Unknown-04	18.01	390	UG/KG	J
	Unknown-05	18.13	480	UG/KG	J
	Unknown-06	18.52	460	UG/KG	J
	Unknown-07	18.63	380	UG/KG	J
	Unknown-08	19.23	790	UG/KG	J
	Unknown-09	19.32	460	UG/KG	J
	Unknown-10	19.38	500	UG/KG	J
	Unknown-11	19.50	390	UG/KG	J
	Unknown-12	19.58	830	UG/KG	J
	Unknown-13	19.77	1300	UG/KG	J
	Unknown-14	20.13	480	UG/KG	J
	Unknown-15	20.35	760	UG/KG	J
	Unknown-16	20.52	370	UG/KG	J
	Unknown-17	20.68	500	UG/KG	J
	Unknown-18	21.13	520	UG/KG	J
	Unknown-19	21.23	500	UG/KG	J
	Unknown-20	21.83	570	UG/KG	J
	Unknown-21	22.01	500	UG/KG	J
	Unknown-22	22.82	740	UG/KG	J

National Functional Guidelines Report #09

Lab KAP(KAP Technologies, Inc.) SDG E3PB2 Case 43102 Contract EPW11031 Region 5 DDTID 166047 SOW SOM01.2

Tentatively Identified Compounds

BNA Sample=E3PB9RE Location=SB-10 Matrix=SOIL Level=LOW

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
E966796	Total Alkanes	0.00	1700	UG/KG	J
	Unknown-01	14.64	590	UG/KG	J
018435-45-5	1-Nonadecene	15.12	460	UG/KG	NJ
	Unknown-02	15.54	850	UG/KG	J
	Unknown-03	16.92	530	UG/KG	J
	Unknown-04	17.43	440	UG/KG	J
002541-69-7	Benz[a]anthracene, 7-methyl-	17.59	580	UG/KG	NJ
	Unknown-05	18.25	580	UG/KG	J
	Unknown-06	18.53	860	UG/KG	J
	Unknown-07	18.74	610	UG/KG	J
	Unknown-08	19.25	810	UG/KG	J
	Unknown-09	19.33	560	UG/KG	J
	Unknown-10	19.40	600	UG/KG	J
	Unknown-11	19.60	850	UG/KG	J
	Unknown-12	19.79	1300	UG/KG	J
	Unknown-13	20.16	490	UG/KG	J
	Unknown-14	20.37	950	UG/KG	J
	Unknown-15	20.83	530	UG/KG	J
	Unknown-16	21.16	620	UG/KG	J
	Unknown-17	21.27	580	UG/KG	J
	Unknown-18	21.78	440	UG/KG	J
	Unknown-19	21.87	710	UG/KG	J
	Unknown-20	22.04	510	UG/KG	J
	Unknown-21	22.88	1100	UG/KG	J
	Unknown-22	24.28	700	UG/KG	J

National Functional Guidelines Report #09

Lab KAP(KAP Technologies, Inc.) **SDG** E3PB2 **Case** 43102 **Contract** EPW11031 **Region** 5 **DDTID** 166047 **SOW** SOM01.2

Tentatively Identified Compounds

BNA Sample=E3PC0 Location=SB-11 Matrix=SOIL Level=LOW

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
	Unknown-01	15.54	680	UG/KG	J
	Unknown-02	18.52	500	UG/KG	J

National Functional Guidelines Report #09

Lab KAP(KAP Technologies, Inc.) SDG E3PB2 Case 43102 Contract EPW11031 Region 5 DDTID 166047 SOW SOM01.2

Tentatively Identified Compounds

BNA Sample=E3PC0RE Location=SB-11 Matrix=SOIL Level=LOW

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
	Unknown-01	15.55	820	UG/KG	J
	Unknown-02	17.77	820	UG/KG	J
	Unknown-03	20.14	1000	UG/KG	J

National Functional Guidelines Report #09

Lab KAP(KAP Technologies, Inc.) **SDG** E3PB2 **Case** 43102 **Contract** EPW11031 **Region** 5 **DDTID** 166047 **SOW** SOM01.2

Tentatively Identified Compounds

BNA Sample=E3PC1 Location=SB-12 Matrix=SOIL Level=LOW

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
021195-59-5	1,3,8-p-Menthatriene	7.28	810	UG/KG	NJ
003642-14-6	Cyclobutene, bis(1-methylethylidene)-	7.67	890	UG/KG	NJ
	Unknown-01	15.47	1000	UG/KG	J
	Unknown-02	15.57	1100	UG/KG	J
	Unknown-03	15.68	2600	UG/KG	J

National Functional Guidelines Report #09

Lab KAP(KAP Technologies, Inc.) **SDG** E3PB2 **Case** 43102 **Contract** EPW11031 **Region** 5 **DDTID** 166047 **SOW** SOM01.2

Tentatively Identified Compounds

BNA Sample=E3PC1RE Location=SB-12 Matrix=SOIL Level=LOW

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
001746-11-8	Benzofuran, 2,3-dihydro-2-methyl-	7.68	1000	UG/KG	NJ
	Unknown-01	15.29	1000	UG/KG	J
	Unknown-02	15.57	1100	UG/KG	J
	Unknown-03	15.69	1700	UG/KG	J
	Unknown-04	17.07	1000	UG/KG	J

National Functional Guidelines Report #09

Lab KAP(KAP Technologies, Inc.) SDG E3PB2 Case 43102 Contract EPW11031 Region 5 DDTID 166047 SOW SOM01.2

Tentatively Identified Compounds

BNA Sample=SBLK61 Location= Matrix=SOIL Level=LOW

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
	Unknown-01	19.47	89	UG/KG	J



**USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record**

Org 2

Case No: 43102
DAS No:
SDG No: *E3PB2* **L**

Date Shipped: *11/7/12*
Carrier Name: UPS
Airbill: 1Z5490W42210082636
Shipped to: KAP Technologies Inc.
9391 Grogans Mill Rd.
Suite-A2
The Woodlands TX 77380
(281) 367-0065

Chain of Custody Record		Sampler Signature: <i>John Spielberg</i>
Relinquished By	(Date / Time)	Received By
<i>John Spielberg</i>	<i>11/7/12-945</i>	
2.		
3.		<i>Nicky Hoque</i>
4.		<i>11/8/12 9:35</i>

For Lab Use Only
Lab Contract No: *EPW11031*
Unit Price:
Transfer To:
Lab Contract No:
Unit Price:

ORGANIC SAMPLE No.	MATRIX/SAMPLER	CONC/TYPE	ANALYSIS/TURNAROUND	TAG No./PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E3PA9	Subsurface Soil (>12")/JOHN SPIELBERG	L/G	SVPEPCB (21)	51302043 (Ice Only) (1)	SB-01	<i>11/5/12 - 1605</i>	ME3PA9	
E3PB0	Subsurface Soil (>12")/JOHN SPIELBERG	L/G	SVPEPCB (21)	51302045 (Ice Only) (1)	SB-02	<i>1435</i>	ME3PB0	
E3PB1	Subsurface Soil (>12")/JOHN SPIELBERG	L/G	SVPEPCB (21)	51302047 (Ice Only) (1)	SB-02D	<i>1435</i>	ME3PB1	
E3PB2	Subsurface Soil (>12")/JOHN SPIELBERG	L/G	SVPEPCB (21)	51302049 (Ice Only), 51302050 (Ice Only) (2)	SB-03	<i>11/6/12 1450</i>	ME3PB2	<i>5-5293.01</i>
E3PB3	Subsurface Soil (>12")/JOHN SPIELBERG	L/G	SVPEPCB (21)	51302053 (Ice Only) (1)	SB-04	<i>1300</i>	ME3PB3	
E3PB4	Subsurface Soil (>12")/JOHN SPIELBERG	L/G	SVPEPCB (21)	51302055 (Ice Only) (1)	SB-05	<i>11/5/12 1350</i>	ME3PB4	<i>5-5293.0</i>
E3PB5	Subsurface Soil (>12")/JOHN SPIELBERG	L/G	SVPEPCB (21)	51302057 (Ice Only) (1)	SB-06	<i>1145</i>	ME3PB5	<i>↓ .0</i>

ORIGINAL
 Case: *43102* SDG: *E3PB2*
 Episode: *S-5293* Initial Date: *11/16/12*

Shipment for Case Complete? <input checked="" type="checkbox"/>	Sample(s) to be used for laboratory QC: E3PB2	Additional Sampler Signature(s): <i>John Spielberg</i>	Cooler Temperature Upon Receipt: <i>2.6°C</i>	Chain of Custody Seal Number: 132743, 132744
Analysis Key:	Concentration: <i>L</i> = Low, M = Low/Medium, H = High	Type/Designate: Composite = <input checked="" type="checkbox"/> , Grab = <input type="checkbox"/>	Custody Seal Intact? <input checked="" type="checkbox"/>	Shipment Iced? <input checked="" type="checkbox"/>

SVPEPCB = CLP TCL Semivolatiles and Pesticides/PC

TR Number: **5-094688160-110212-0006**

LABORATORY COPY



**USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record**

Org 2

Case No: 43102
 DAS No: **E3PB2 L**
 SDG No:

Date Shipped: <i>11/7/12</i> Carrier Name: UPS Airbill: 1Z5490W42210082636 Shipped to: KAP Technologies Inc. 9391 Grogans Mill Rd. Suite-A2 The Woodlands TX 77380 (281) 367-0065	Chain of Custody Record		Sampler Signature: <i>John Spielberg</i>	For Lab Use Only	
	Relinquished By	(Date / Time)	Received By	(Date / Time)	Lab Contract No: EPW11031
	<i>John Spielberg</i>	<i>11/7/12 - 9:45</i>			Unit Price:
	3.		<i>Nicole Hoque</i>		Transfer To:
4.		<i>11/8/12</i>	<i>9:35</i>	Lab Contract No:	Unit Price:

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
E3PB6	Subsurface Soil (>12")/ JOHN SPIELBERG	L/G	SVPEPCB (21)	51302059 (Ice Only) (1)	SB-07	<i>did not collect yet 11/7/12</i>	ME3PB6	
E3PB7	Subsurface Soil (>12")/ JOHN SPIELBERG	L/G	SVPEPCB (21)	51302061 (Ice Only) (1)	SB-08	<i>11/6/12 - 1545</i>	ME3PB7	<i>S-5293.04</i>
E3PB8	Subsurface Soil (>12")/ JOHN SPIELBERG	L/G	SVPEPCB (21)	51302063 (Ice Only) (1)	SB-09	<i>1215</i>	ME3PB8	<i>.05</i>
E3PB9	Subsurface Soil (>12")/ JOHN SPIELBERG	L/G	SVPEPCB (21)	51302065 (Ice Only) (1)	SB-10	<i>11/5/12 - 1520</i>	ME3PB9	<i>.06</i>
E3PC0	Subsurface Soil (>12")/ JOHN SPIELBERG	L/G	SVPEPCB (21)	51302067 (Ice Only) (1)	SB-11	<i>11/6/12 - 835</i>	ME3PC0	<i>.07</i>
E3PC1	Subsurface Soil (>12")/ JOHN SPIELBERG	L/G	SVPEPCB (21)	51302069 (Ice Only) (1)	SB-12	<i>1055</i>	ME3PC1	<i>.08?</i>

Shipment for Case Complete? <input checked="" type="checkbox"/>	Sample(s) to be used for laboratory QC: E3PB2	Additional Sampler Signature(s): <i>John Spielberg</i>	Cooler Temperature Upon Receipt: <i>2.6°C</i>	Chain of Custody Seal Number: 132743, 132744
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C , Grab = G	Custody Seal Intact? <input checked="" type="checkbox"/>	Shipment Iced? <input checked="" type="checkbox"/>

SVPEPCB = CLP TCL Semivolatiles and Pesticides/PC

TR Number: **5-094688160-110212-0006**

LABORATORY COPY

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY ~ REGION V

ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Sample Delivery Group: E3PB2 CERCLIS No: TBA
Case No: 43102 Site Name/Location: C&H Tamarack Operations (MI)
Contractor or EPA Lab: Kap Technologies Data User: MDEQ
No. of Samples: 8 Date Sampled or Date Received: 29 Nov 2012

Have Chain-of-Custody records been received? Yes No
Have traffic reports or packing lists been received? Yes No

If no, are traffic reports or packing list numbers written on the Chain-of-Custody Record?
Yes No

If no, which traffic report or packing list numbers are missing?

Are basic data forms in? Yes No
No of samples claimed: 8 No. of samples received: _____

Received by: P. A. Joepner Date: 29 Nov 2012

Received by LSSS: P. A. Joepner Date: 3 Dec 2012

Review started: 12/18/12 Reviewer Signature: Michelle Griffin

Total time spent on review: 30 Date review completed: 12-26-2012

Copied by: A. C. Harvey Date: January 2, 2013

Mailed to user by: P. A. Joepner Date: 3 Jan 2013

DATA USER:

Please fill in the blanks below and return this form to:
Sylvia Griffin, Data Mgmt. Coordinator, Region V, ML-10C

Data received by: _____ Date: _____

Data review received by: _____ Date: _____

- Inorganic Data Complete Suitable for Intended Purpose T if OK
- Organic Data Complete Suitable for Intended Purpose T if OK
- Dioxin data Complete Suitable for Intended Purpose T if OK
- SAS Data Complete Suitable for Intended Purpose T if OK

PROBLEMS: Please indicate reasons why data are not suitable for your uses.

Received by Data Mgmt. Coordinator for Files. Date: _____

ESAT Controlled Number: ESAT5.417.00325-pj 19 Dec 12

DATE: December 19, 2012

Michigan Department of Environmental Quality
MDEQ - RRD Superfund
Attn: Mr. Joe Walczak
525 W. Allegan
Constitution Hall, 4th Floor, North
P.O. Box 30242
Lansing, MI 48909-7742

Site Name: C & H Tamarack Operations (MI) - level 3 data validation

<u>Case</u>	<u>Lab</u>	<u>Samples</u>	<u>SDG</u>	<u>Matrix</u>
43102	A4 Scientific	8	ME3PC2	water

Analysis: metals/Hg/CN

Upon receipt of data, please check each package for completeness and note any missing deliverables below.

PLEASE!!!! Send this form back to Sylvia Griffin, Data Management Coordinator after filling in the blanks below.

Data Received by: _____ Date: _____

PROBLEMS:

Please indicate if data is complete, and note if there are any deliverables missing from the cases noted above.

Received by Data Management Coordinator, CRL for file.

Signature: _____ Date: _____

FROM: U.S. EPA - Region 5
Central Regional Laboratory
536 S. Clark, 10th Floor
Chicago, IL 60605

Sent By: Pat A. Joyner
Data Coordinator
ESAT Region 5 **TechLaw Inc.**

ESAT5.415.00124
act
12-19-12

Regional Transmittal Form

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: 12/14/2012

SUBJECT: Review of Data
Received for review on 12/3/2012

FROM: Timothy Prendiville, Supervisor, Chief (SR-6J)
Superfund Contract Management Section

TO: Data User: MDEQ
Email address: walczakj@michigan.gov

LEVEL 3 DATA VALIDATION

We have reviewed the data for the following case:

SITE NAME: C & H Tamarack Operations (MI)

CASE NUMBER: 43102 SDG NUMBER: ME3PC2

Number and Type of Samples: 8 waters (metals/Hg/CN)

Sample Numbers: ME3PC2 - C5, C7 - C9, D0

Laboratory: A4 Scientific Hrs. for Review: 11.5 + 2.0 or 13.5

Following are our findings:

CC: Howard Pham
Region 5 TPO
Mail Code: SA-5J

Below is a summary of the out-of-control audits and the possible effects on the data for this case:

Eight (8) water samples, numbered ME3PC2 – C5, C7 – C9, and D0, were collected on November 5 – 6, 2012. The lab received the samples on November 8, 2012 in good condition. All samples were analyzed for metals and cyanide. All samples were analyzed using the CLP SOW ISM01.3 analysis procedures.

Mercury analysis was performed using a Cold Vapor AA Technique. Cyanide analysis was performed using the MIDI Distillation procedure. Aluminum, calcium, iron, magnesium, potassium and sodium analyses were performed using an Inductively Coupled Plasma-Atomic Emission Spectroscopy (ICP-AES) procedure. The remaining inorganic analyses were performed using an Inductively Coupled Plasma-Mass Spectroscopy (ICP-MS) procedure.

EXES flagged samples, except for ME3PC9, J-/R for improper preservation for all parameters except for cyanide. The sample was received at pH 12.5 and was adjusted and allowed to stand overnight per Region 5 instructions. In the EXES Superset Deliverable file, the pH is entered as 12.5 and all results are flagged for high pH. There is nothing in place for this reviewer to make the proper changes to the Superset Deliverable file. The flags for improper preservation have been removed from this reviewers report.

1. HOLDING TIME:

No defects were found.

2. CALIBRATIONS:

No defects were found for the calibrations.

3. BLANKS:

The following inorganic samples are associated with an ICB/CCB or preparation blank concentration which is greater than the method detection limit (MDL). The sample result is greater than the MDL.

Hits less than the CRQL are qualified "U". The sample result is raised to the CRQL.
Hits greater than the CRQL but less than 5 times the blank are qualified "J+".

Aluminum

ME3CP3, ME3PC4, ME3PC5, ME3PC7

Cadmium

ME3CP3, ME3PC4, ME3PC5, ME3PC7

Iron

ME3PC2, ME3PC5, ME3PC7

Mercury

ME3PC2, ME3CP3, ME3PC4, ME3PC5, ME3PC7, ME3PC8, ME3PC9, ME3PD0

The following inorganic samples are associated with a field/equipment blank concentration which is greater than the MDL but less than the CRQL. ME3PC8, ME3PC9, and ME3PD0 are identified as a field blanks.

Hits less than the CRQL are qualified "U". The sample result is raised to the CRQL.
Hits greater than the CRQL but less than 5 times the blank are qualified "J+". Hits greater than 5 times the blank are not qualified.

Zinc

ME3PC2, ME3CP3, ME3PC4, ME3PC5, ME3PC7

4. MATRIX SPIKE/MATRIX SPIKE DUPLICATE AND LAB CONTROL SAMPLE:

No defects were found for matrix spike or laboratory control samples.

5. LABORATORY AND FIELD DUPLICATE:

No defects were found for the laboratory duplicate samples.

ME3PC3/C4 are field duplicates. No defects were found for the field duplicate samples.

6. ICP ANALYSIS:

No defects were found for the tune, internal standards, ICS samples or serial dilution sample.

7. SAMPLE RESULTS:

The following inorganic samples have analyte concentrations reported above the method detection limit (MDL) but below the quantitation limit (CRQL).

Results are qualified "J".

Chromium

ME3CP3, ME3PC4

Cobalt

ME3CP3, ME3PC4

Lead

ME3CP3, ME3PC4

Manganese

ME3PC8, ME3PC9, ME3PD0

Nickel

ME3PC4, ME3PC5, ME3PC7

Potassium

ME3PC2, ME3CP3, ME3PC5

Selenium

ME3CP3, ME3PC4, ME3PC7

Sodium

ME3PC9

Vanadium

ME3PC2, ME3PC5, ME3PC7

Zinc

ME3PC8, ME3PC9, ME3PD0

All data, except those qualified above, are acceptable.

EXES ISM01.3 Data Qualifier Sheet

<u>Qualifiers</u>	<u>Data Qualifier Definitions</u>
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control (QC) criteria. The analyte may or may not be present in the sample.
UJ	The analyte was analyzed for, but not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

Sample Summary Report

Case No:	43102	Contract:	EPW09035	SDG No:	ME3PC2	Lab Code:	A4
Sample Number:	ME3PC2	Method:	Hg	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	<i>THW-01</i>	pH:	12.5	Sample Date:		Sample Time:	
% Moisture :		% Solids :					

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Mercury	0.20	ug/L	1	J	U	Yes	S2BVE

Case No:	43102	Contract:	EPW09035	SDG No:	ME3PC2	Lab Code:	A4
Sample Number:	ME3PC2	Method:	CN	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	<i>TMW-01</i>	pH:	12.5	Sample Date:		Sample Time:	
% Moisture :		% Solids :					

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Cyanide	10.0	ug/L	1	U	U	Yes	S2BVE

Case No:	43102	Contract:	EPW09035	SDG No:	ME3PC2	Lab Code:	A4
Sample Number:	ME3PC2	Method:	ICP_MS	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	7 MW-01	pH:	12.5	Sample Date:		Sample Time:	
% Moisture :		% Solids :					

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Antimony	2.0	ug/L	1	U	U	Yes	S2BVE
Arsenic	1.0	ug/L	1	U	U	Yes	S2BVE
Barium	110	ug/L	1			Yes	S2BVE
Beryllium	1.0	ug/L	1	U	U	Yes	S2BVE
Cadmium	1.0	ug/L	1	U	U	Yes	S2BVE
Chromium	2.0	ug/L	1	U	U	Yes	S2BVE
Cobalt	1.0	ug/L	1	U	U	Yes	S2BVE
Copper	2.4	ug/L	1			Yes	S2BVE
Lead	1.0	ug/L	1	U	U	Yes	S2BVE
Manganese	114	ug/L	1			Yes	S2BVE
Nickel	1.2	ug/L	1			Yes	S2BVE
Selenium	5.0	ug/L	1	U	U	Yes	S2BVE
Silver	1.0	ug/L	1	U	U	Yes	S2BVE
Thallium	1.0	ug/L	1	U	U	Yes	S2BVE
Vanadium	3.7	ug/L	1	J	J	Yes	S2BVE
Zinc	2.1	ug/L	1		J+	Yes	S2BVE

Case No:	43102	Contract:	EPW09035	SDG No:	ME3PC2	Lab Code:	A4
Sample Number:	ME3PC2	Method:	ICP_AES	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	TmW-01	pH:	12.5	Sample Date:		Sample Time:	
% Moisture :		% Solids :					

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aluminum	200	ug/L	1	U	U	Yes	S2BVE
Calcium	63300	ug/L	1			Yes	S2BVE
Iron	289	ug/L	1		J+	Yes	S2BVE
Magnesium	12700	ug/L	1			Yes	S2BVE
Potassium	2090	ug/L	1	J	J	Yes	S2BVE
Sodium	26200	ug/L	1			Yes	S2BVE

Case No:	43102	Contract:	EPW09035	SDG No:	ME3PC2	Lab Code:	A4
Sample Number:	ME3PC3	Method:	CN	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	<i>T MW-02</i>	pH:	12.5	Sample Date:		Sample Time:	
% Moisture :		% Solids :					

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Cyanide	10.0	ug/L	1	U	U	Yes	S2BVE

Case No:	43102	Contract:	EPW09035	SDG No:	ME3PC2	Lab Code:	A4
Sample Number:	ME3PC3	Method:	ICP_AES	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	TMW-02	pH:	12.5	Sample Date:		Sample Time:	
% Moisture:		% Solids:					

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aluminum	200	ug/L	1	J	U	Yes	S2BVE
Calcium	42500	ug/L	1			Yes	S2BVE
Iron	6260	ug/L	1			Yes	S2BVE
Magnesium	9100	ug/L	1			Yes	S2BVE
Potassium	4880	ug/L	1	J	J	Yes	S2BVE
Sodium	48600	ug/L	1			Yes	S2BVE

Case No:	43102	Contract:	EPW09035	SDG No:	ME3PC2	Lab Code:	A4
Sample Number:	ME3PC3	Method:	ICP_MS	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	<i>Tmw-02</i>	pH:	12.5	Sample Date:		Sample Time:	
% Moisture :		% Solids :					

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Antimony	2.0	ug/L	1	U	U	Yes	S2BVE
Arsenic	1.5	ug/L	1			Yes	S2BVE
Barium	174	ug/L	1			Yes	S2BVE
Beryllium	1.0	ug/L	1	U	U	Yes	S2BVE
Cadmium	1.0	ug/L	1	J	U	Yes	S2BVE
Chromium	1.3	ug/L	1	J	J	Yes	S2BVE
Cobalt	0.69	ug/L	1	J	J	Yes	S2BVE
Copper	8.0	ug/L	1			Yes	S2BVE
Lead	0.24	ug/L	1	J	J	Yes	S2BVE
Manganese	1380	ug/L	4	D		Yes	S2BVE
Nickel	1.6	ug/L	1			Yes	S2BVE
Selenium	1.3	ug/L	1	J	J	Yes	S2BVE
Silver	1.0	ug/L	1	U	U	Yes	S2BVE
Thallium	1.0	ug/L	1	U	U	Yes	S2BVE
Vanadium	5.9	ug/L	1			Yes	S2BVE
Zinc	2.3	ug/L	1		J+	Yes	S2BVE

Case No:	43102	Contract:	EPW09035	SDG No:	ME3PC2	Lab Code:	A4
Sample Number:	ME3PC3	Method:	Hg	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	<i>turn-02</i>	pH:	12.5	Sample Date:		Sample Time:	
% Moisture :		% Solids :					

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Mercury	0.20	ug/L	1	J	U	Yes	S2BVE

Case No:	43102	Contract:	EPW09035	SDG No:	ME3PC2	Lab Code:	A4
Sample Number:	ME3PC4	Method:	ICP_AES	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	Tmw-02D	pH:	12.5	Sample Date:		Sample Time:	
% Moisture :		% Solids :					

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aluminum	200	ug/L	1	J	U	Yes	S2BVE
Calcium	44000	ug/L	1			Yes	S2BVE
Iron	6490	ug/L	1			Yes	S2BVE
Magnesium	9450	ug/L	1			Yes	S2BVE
Potassium	5060	ug/L	1			Yes	S2BVE
Sodium	51000	ug/L	1			Yes	S2BVE

Case No:	43102	Contract:	EPW09035	SDG No:	MB3PC2	Lab Code:	A4
Sample Number:	ME3PC4	Method:	CN	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	TMW-02D	pH:	12.5	Sample Date:		Sample Time:	
% Moisture:		% Solids:					

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Cyanide	10.0	ug/L	1	U	U	Yes	S2BVE

Case No:	43102	Contract:	EPW09035	SDG No:	ME3PC2	Lab Code:	A4
Sample Number:	ME3PC4	Method:	ICP_MS	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	TW-02D	pH:	12.5	Sample Date:		Sample Time:	
% Moisture :		% Solids :					

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Antimony	2.0	ug/L	1	U	U	Yes	S2BVE
Arsenic	1.5	ug/L	1			Yes	S2BVE
Barium	175	ug/L	1			Yes	S2BVE
Beryllium	1.0	ug/L	1	U	U	Yes	S2BVE
Cadmium	1.0	ug/L	1	J	U	Yes	S2BVE
Chromium	1.4	ug/L	1	J	J	Yes	S2BVE
Cobalt	0.72	ug/L	1	J	J	Yes	S2BVE
Copper	8.5	ug/L	1			Yes	S2BVE
Lead	0.41	ug/L	1	J	J	Yes	S2BVE
Manganese	1340	ug/L	4	D		Yes	S2BVE
Nickel	0.86	ug/L	1	J	J	Yes	S2BVE
Selenium	1.2	ug/L	1	J	J	Yes	S2BVE
Silver	1.0	ug/L	1	U	U	Yes	S2BVE
Thallium	1.0	ug/L	1	U	U	Yes	S2BVE
Vanadium	5.9	ug/L	1			Yes	S2BVE
Zinc	2.9	ug/L	1		J+	Yes	S2BVE

Case No:	43102	Contract:	EPW09035	SDG No:	ME3PC2	Lab Code:	A4
Sample Number:	ME3PC4	Method:	Hg	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	TmW-02D	pH:	12.5	Sample Date:		Sample Time:	
% Moisture :		% Solids :					

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Mercury	0.20	ug/L	1	J	U	Yes	S2BVE

Case No:	43102	Contract:	EPW09035	SDG No:	ME3PC2	Lab Code:	A4
Sample Number:	ME3PC5	Method:	Hg	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	T MW-03	pH:	12.5	Sample Date:		Sample Time:	
% Moisture :		% Solids :					

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Mercury	0.20	ug/L	1	J	U	Yes	S2BVE

Case No:	43102	Contract:	EPW09035	SDG No:	ME3PC2	Lab Code:	A4
Sample Number:	ME3PC5	Method:	ICP_AES	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	<i>FMW-03</i>	pH:	12.5	Sample Date:		Sample Time:	
% Moisture:		% Solids:					

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aluminum	200	ug/L	1	J	U	Yes	S2BVE
Calcium	44400	ug/L	1			Yes	S2BVE
Iron	101	ug/L	1		J+	Yes	S2BVE
Magnesium	8840	ug/L	1			Yes	S2BVE
Potassium	2360	ug/L	1	J	J	Yes	S2BVE
Sodium	22200	ug/L	1			Yes	S2BVE

Case No: 43102	Contract: EPW09035	SDG No: ME3PC2	Lab Code: A4
Sample Number: ME3PC5	Method: ICP_MS	Matrix: Water	MA Number: DEFAULT
Sample Location: <i>Th w -03</i>	pH: 12.5	Sample Date:	Sample Time:
% Moisture :	% Solids :		

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Antimony	2.0	ug/L	1	U	U	Yes	S2BVE
Arsenic	1.0	ug/L	1	U	U	Yes	S2BVE
Barium	69.5	ug/L	1			Yes	S2BVE
Beryllium	1.0	ug/L	1	U	U	Yes	S2BVE
Cadmium	1.0	ug/L	1	J	U	Yes	S2BVE
Chromium	2.0	ug/L	1	U	U	Yes	S2BVE
Cobalt	1.0	ug/L	1	U	U	Yes	S2BVE
Copper	12.6	ug/L	1			Yes	S2BVE
Lead	1.0	ug/L	1	U	U	Yes	S2BVE
Manganese	420	ug/L	1			Yes	S2BVE
Nickel	0.49	ug/L	1	J	J	Yes	S2BVE
Selenium	5.0	ug/L	1	U	U	Yes	S2BVE
Silver	1.0	ug/L	1	U	U	Yes	S2BVE
Thallium	1.0	ug/L	1	U	U	Yes	S2BVE
Vanadium	2.3	ug/L	1	J	J	Yes	S2BVE
Zinc	2.0	ug/L	1	J	U	Yes	S2BVE

Case No:	43102	Contract:	EPW09035	SDG No:	ME3PC2	Lab Code:	A4
Sample Number:	ME3PC5	Method:	CN	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	<i>JMW-03</i>	pH:	12.5	Sample Date:		Sample Time:	
% Moisture :		% Solids :					

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Cyanide	10.0	ug/L	1	U	U	Yes	S2BVE

Case No:	43102	Contract:	EPW09035	SDG No:	ME3PC2	Lab Code:	A4
Sample Number:	ME3PC5D	Method:	CN	Matrix:	Water	MA Number:	DEFAULT
Sample Location:		pH:	12.5	Sample Date:		Sample Time:	
% Moisture :		% Solids :					

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Cyanide	10.0	ug/L	1	U	U	Yes	S2BVE

Case No:	43102	Contract:	EPW09035	SDG No:	ME3PC2	Lab Code:	A4
Sample Number:	ME3PC5D	Method:	Hg	Matrix:	Water	MA Number:	DEFAULT
Sample Location:		pH:	12.5	Sample Date:		Sample Time:	
% Moisture :		% Solids :					

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Mercury	0.20	ug/L	1	J	U	Yes	S2BVE

Case No:	43102	Contract:	EPW09035	SDG No:	ME3PC2	Lab Code:	A4
Sample Number:	ME3PC5D	Method:	ICP_MS	Matrix:	Water	MA Number:	DEFAULT
Sample Location:		pH:	12.5	Sample Date:		Sample Time:	
% Moisture :		% Solids :					

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Antimony	2.0	ug/L	1	U	R	Yes	S2BVE
Arsenic	1.0	ug/L	1	U	R	Yes	S2BVE
Barium	68.0	ug/L	1		J-	Yes	S2BVE
Beryllium	1.0	ug/L	1	U	R	Yes	S2BVE
Cadmium	1.0	ug/L	1	J	U	Yes	S2BVE
Chromium	2.0	ug/L	1	U	R	Yes	S2BVE
Cobalt	1.0	ug/L	1	U	R	Yes	S2BVE
Copper	12.2	ug/L	1		J-	Yes	S2BVE
Lead	1.0	ug/L	1	U	R	Yes	S2BVE
Manganese	410	ug/L	1		J-	Yes	S2BVE
Nickel	0.68	ug/L	1	J	J-	Yes	S2BVE
Selenium	5.0	ug/L	1	U	R	Yes	S2BVE
Silver	1.0	ug/L	1	U	R	Yes	S2BVE
Thallium	1.0	ug/L	1	U	R	Yes	S2BVE
Vanadium	2.2	ug/L	1	J	J-	Yes	S2BVE
Zinc	1.8	ug/L	1	J	J-	Yes	S2BVE

Case No:	43102	Contract:	EPW09035	SDG No:	ME3PC2	Lab Code:	A4
Sample Number:	ME3PC5D	Method:	ICP_AES	Matrix:	Water	MA Number:	DEFAULT
Sample Location:		pH:	12.5	Sample Date:		Sample Time:	
% Moisture :		% Solids :					

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aluminum	200	ug/L	1	J	U	Yes	S2BVE
Calcium	44500	ug/L	1			Yes	S2BVE
Iron	100	ug/L	1		U	Yes	S2BVE
Magnesium	8760	ug/L	1			Yes	S2BVE
Potassium	2350	ug/L	1	J		Yes	S2BVE
Sodium	22300	ug/L	1			Yes	S2BVE

Case No:	43102	Contract:	EPW09035	SDG No:	ME3PC2	Lab Code:	A4
Sample Number:	ME3PC5S	Method:	ICP_AES	Matrix:	Water	MA Number:	DEFAULT
Sample Location:		pH:	12.5	Sample Date:		Sample Time:	
% Moisture :		% Solids :					

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aluminum	2120	ug/L	1			Yes	S2BVE
Iron	1220	ug/L	1			Yes	S2BVE

Case No:	43102	Contract:	EPW09035	SDG No:	ME3PC2	Lab Code:	A4
Sample Number:	ME3PC55	Method:	ICP_MS	Matrix:	Water	MA Number:	DBFAULT
Sample Location:		pH:	12.5	Sample Date:		Sample Time:	
% Moisture :		% Solids :					

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Antimony	105	ug/L	1		J-	Yes	S2BVE
Arsenic	42.2	ug/L	1		J-	Yes	S2BVE
Barium	2170	ug/L	1		J-	Yes	S2BVE
Beryllium	47.3	ug/L	1		J-	Yes	S2BVE
Cadmium	54.6	ug/L	1		J-	Yes	S2BVE
Chromium	195	ug/L	1		J-	Yes	S2BVE
Cobalt	494	ug/L	1		J-	Yes	S2BVE
Copper	252	ug/L	1		J-	Yes	S2BVE
Lead	19.3	ug/L	1		J-	Yes	S2BVE
Manganese	945	ug/L	3	D	J-	Yes	S2BVE
Nickel	482	ug/L	1		J-	Yes	S2BVE
Selenium	113	ug/L	1		J-	Yes	S2BVE
Silver	51.3	ug/L	1		J-	Yes	S2BVE
Thallium	48.7	ug/L	1		J-	Yes	S2BVE
Vanadium	500	ug/L	1		J-	Yes	S2BVE
Zinc	536	ug/L	1		J-	Yes	S2BVE

Case No:	43102	Contract:	EPW09035	SDG No:	ME3PC2	Lab Code:	A4
Sample Number:	ME3PC5S	Method:	Hg	Matrix:	Water	MA Number:	DEFAULT
Sample Location:		pH:	12.5	Sample Date:		Sample Time:	
% Moisture :		% Solids :					

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Mercury	1.0	ug/L	1		J-	Yes	S2BVE

Case No:	43102	Contract:	EPW09035	SDG No:	ME3PC2	Lab Code:	A4
Sample Number:	ME3PC55	Method:	CN	Matrix:	Water	MA Number:	DEFAULT
Sample Location:		pH:	12.5	Sample Date:		Sample Time:	
% Moisture :		% Solids :					

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Cyanide	111	ug/L	1			Yes	S2BVE

Case No:	43102	Contract:	EPW09035	SDG No:	ME3PC2	Lab Code:	A4
Sample Number:	ME3PC7	Method:	CN	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	<i>TMW-05</i>	pH:	12.5	Sample Date:		Sample Time:	
% Moisture :		% Solids :					

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Cyanide	10.0	ug/L	1	U	U	Yes	S2BVE

Case No:	43102	Contract:	EPW09035	SDG No:	ME3PC2	Lab Code:	A4
Sample Number:	ME3PC7	Method:	Hg	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	TMW-05	pH:	12.5	Sample Date:		Sample Time:	
% Moisture:		% Solids:					

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Mercury	0.20	ug/L	1	J	U	Yes	S2BVE

Case No:	43102	Contract:	EPW09035	SDG No:	ME3PC2	Lab Code:	A4
Sample Number:	ME3PC7	Method:	ICP_AES	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	T MW-05	pH:	12.5	Sample Date:		Sample Time:	
% Moisture :		% Solids :					

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aluminum	200	ug/L	1	J	U	Yes	S2BVE
Calcium	52300	ug/L	1			Yes	S2BVE
Iron	122	ug/L	1		J+	Yes	S2BVE
Magnesium	6080	ug/L	1			Yes	S2BVE
Potassium	5260	ug/L	1			Yes	S2BVE
Sodium	39300	ug/L	1			Yes	S2BVE

Case No:	43102	Contract:	EPW09035	SDG No:	ME3PC2	Lab Code:	A4
Sample Number:	ME3PC7	Method:	ICP_MS	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	<i>7mw-05</i>	pH:	12.5	Sample Date:		Sample Time:	
% Moisture :		% Solids :					

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Antimony	2.0	ug/L	1	U	U	Yes	S2BVE
Arsenic	1.0	ug/L	1	U	U	Yes	S2BVE
Barium	95.9	ug/L	1			Yes	S2BVE
Beryllium	1.0	ug/L	1	U	U	Yes	S2BVE
Cadmium	1.0	ug/L	1	J	U	Yes	S2BVE
Chromium	2.0	ug/L	1	U	U	Yes	S2BVE
Cobalt	1.0	ug/L	1	U	U	Yes	S2BVE
Copper	2.2	ug/L	1			Yes	S2BVE
Lead	1.0	ug/L	1	U	U	Yes	S2BVE
Manganese	21.0	ug/L	1			Yes	S2BVE
Nickel	0.73	ug/L	1	J	J	Yes	S2BVE
Selenium	1.2	ug/L	1	J	J	Yes	S2BVE
Silver	1.0	ug/L	1	U	U	Yes	S2BVE
Thallium	1.0	ug/L	1	U	U	Yes	S2BVE
Vanadium	1.6	ug/L	1	J	J	Yes	S2BVE
Zinc	2.0	ug/L	1	J	U	Yes	S2BVE

Case No:	43102	Contract:	EPW09035	SDG No:	ME3PC2	Lab Code:	A4
Sample Number:	ME3PC8	Method:	ICP_MS	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	FB-61	pH:	12.5	Sample Date:		Sample Time:	
% Moisture :		% Solids :					

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Antimony	2.0	ug/L	1	U	U	Yes	S2BVE
Arsenic	1.0	ug/L	1	U	U	Yes	S2BVE
Barium	10.0	ug/L	1	U	U	Yes	S2BVE
Beryllium	1.0	ug/L	1	U	U	Yes	S2BVE
Cadmium	1.0	ug/L	1	U	U	Yes	S2BVE
Chromium	2.0	ug/L	1	U	U	Yes	S2BVE
Cobalt	1.0	ug/L	1	U	U	Yes	S2BVE
Copper	2.0	ug/L	1	U	U	Yes	S2BVE
Lead	1.0	ug/L	1	U	U	Yes	S2BVE
Manganese	0.57	ug/L	1	J	J	Yes	S2BVE
Nickel	1.0	ug/L	1	U	U	Yes	S2BVE
Selenium	5.0	ug/L	1	U	U	Yes	S2BVE
Silver	1.0	ug/L	1	U	U	Yes	S2BVE
Thallium	1.0	ug/L	1	U	U	Yes	S2BVE
Vanadium	5.0	ug/L	1	U	U	Yes	S2BVE
Zinc	1.3	ug/L	1	J	J	Yes	S2BVE

Case No:	43102	Contract:	EPW09035	SDG No:	ME3PC2	Lab Code:	A4
Sample Number:	ME3PC8	Method:	CN	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	FB-01	pH:	12.5	Sample Date:		Sample Time:	
% Moisture:		% Solids:					

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Cyanide	10.0	ug/L	1	U	U	Yes	S2BVE

Case No:	43102	Contract:	EPW09035	SDG No:	ME3PC2	Lab Code:	A4
Sample Number:	ME3PC8	Method:	Hg	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	FB-61	pH:	12.5	Sample Date:		Sample Time:	
% Moisture :		% Solids :					

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Mercury	0.20	ug/L	1	J	U	Yes	S2BVE

Case No:	43102	Contract:	EPW09035	SDG No:	ME3PC2	Lab Code:	A4
Sample Number:	ME3PC8	Method:	ICP_AES	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	FB-01	pH:	12.5	Sample Date:		Sample Time:	
% Moisture:		% Solids:					

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aluminum	200	ug/L	1	U	U	Yes	S2BVE
Calcium	5000	ug/L	1	U	U	Yes	S2BVE
Iron	100	ug/L	1	U	U	Yes	S2BVE
Magnesium	5000	ug/L	1	U	U	Yes	S2BVE
Potassium	5000	ug/L	1	U	U	Yes	S2BVE
Sodium	5000	ug/L	1	U	U	Yes	S2BVE

Case No:	43102	Contract:	EPW09035	SDG No:	ME3PC2	Lab Code:	A4
Sample Number:	ME3PC9	Method:	ICP_MS	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	FB-2	pH:	1.5	Sample Date:		Sample Time:	
% Moisture :		% Solids :					

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Antimony	2.0	ug/L	1	U	U	Yes	S2BVE
Arsenic	1.0	ug/L	1	U	U	Yes	S2BVE
Barium	10.0	ug/L	1	U	U	Yes	S2BVE
Beryllium	1.0	ug/L	1	U	U	Yes	S2BVE
Cadmium	1.0	ug/L	1	U	U	Yes	S2BVE
Chromium	2.0	ug/L	1	U	U	Yes	S2BVE
Cobalt	1.0	ug/L	1	U	U	Yes	S2BVE
Copper	2.0	ug/L	1	U	U	Yes	S2BVE
Lead	1.0	ug/L	1	U	U	Yes	S2BVE
Manganese	0.33	ug/L	1	J	J	Yes	S2BVE
Nickel	1.0	ug/L	1	U	U	Yes	S2BVE
Selenium	5.0	ug/L	1	U	U	Yes	S2BVE
Silver	1.0	ug/L	1	U	U	Yes	S2BVE
Thallium	1.0	ug/L	1	U	U	Yes	S2BVE
Vanadium	5.0	ug/L	1	U	U	Yes	S2BVE
Zinc	1.0	ug/L	1	J	J	Yes	S2BVE

Case No:	43102	Contract:	EPW09035	SDG No:	ME3PC2	Lab Code:	A4
Sample Number:	ME3PC9	Method:	ICP_AES	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	FB-02	pH:	1.5	Sample Date:		Sample Time:	
% Moisture :		% Solids :					

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aluminum	200	ug/L	1	U	U	Yes	S2BVE
Calcium	5000	ug/L	1	U	U	Yes	S2BVE
Iron	100	ug/L	1	U	U	Yes	S2BVE
Magnesium	5000	ug/L	1	U	U	Yes	S2BVE
Potassium	5000	ug/L	1	U	U	Yes	S2BVE
Sodium	1940	ug/L	1	J	J	Yes	S2BVE

Case No:	43102	Contract:	EPW09035	SDG No:	ME3PC2	Lab Code:	A4
Sample Number:	ME3PC9	Method:	Hg	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	FB-02	pH:	1.5	Sample Date:		Sample Time:	
% Moisture :		% Solids :					

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Mercury	0.20	ug/L	1	J	U	Yes	S2BVE

Case No:	43102	Contract:	BPW09035	SDG No:	ME3PC2	Lab Code:	A4
Sample Number:	ME3PC9	Method:	CN	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	FB-02	pH:	1.5	Sample Date:		Sample Time:	
% Moisture:		% Solids:					

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Cyanide	10.0	ug/L	1	U	U	Yes	S2BVE

Case No:	43102	Contract:	EPW09035	SDG No:	ME3PC2	Lab Code:	A4
Sample Number:	ME3PD0	Method:	ICP_AES	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	PB-01	pH:	12.5	Sample Date:		Sample Time:	
% Moisture :		% Solids :					

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aluminum	200	ug/L	1	U	U	Yes	S2BVE
Calcium	5000	ug/L	1	U	U	Yes	S2BVE
Iron	100	ug/L	1	U	U	Yes	S2BVE
Magnesium	5000	ug/L	1	U	U	Yes	S2BVE
Potassium	5000	ug/L	1	U	U	Yes	S2BVE
Sodium	5000	ug/L	1	U	U	Yes	S2BVE

Case No:	43102	Contract:	EPW09035	SDG No:	ME3PC2	Lab Code:	A4
Sample Number:	ME3PD0	Method:	CN	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	PB-01	pH:	12.5	Sample Date:		Sample Time:	
% Moisture:		% Solids:					

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Cyanide	10.0	ug/L	1	U	U	Yes	S2BVE

Case No:	43102	Contract:	EPW09035	SDG No:	ME3PC2	Lab Code:	A4
Sample Number:	ME3PD0	Method:	ICP_MS	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	PB-01	pH:	12.5	Sample Date:		Sample Time:	
% Moisture :		% Solids :					

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Antimony	2.0	ug/L	1	U	U	Yes	S2BVE
Arsenic	1.0	ug/L	1	U	U	Yes	S2BVE
Barium	10.0	ug/L	1	U	U	Yes	S2BVE
Beryllium	1.0	ug/L	1	U	U	Yes	S2BVE
Cadmium	1.0	ug/L	1	U	U	Yes	S2BVE
Chromium	2.0	ug/L	1	U	U	Yes	S2BVE
Cobalt	1.0	ug/L	1	U	U	Yes	S2BVE
Copper	2.0	ug/L	1	U	U	Yes	S2BVE
Lead	1.0	ug/L	1	U	U	Yes	S2BVE
Manganese	0.44	ug/L	1	J	J	Yes	S2BVE
Nickel	1.0	ug/L	1	U	U	Yes	S2BVE
Selenium	5.0	ug/L	1	U	U	Yes	S2BVE
Silver	1.0	ug/L	1	U	U	Yes	S2BVE
Thallium	1.0	ug/L	1	U	U	Yes	S2BVE
Vanadium	5.0	ug/L	1	U	U	Yes	S2BVE
Zinc	1.2	ug/L	1	J	J	Yes	S2BVE

Case No:	43102	Contract:	EPW09035	SDG No:	ME3PC2	Lab Code:	A4
Sample Number:	ME3PD0	Method:	Hg	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	PB-01	pH:	12.5	Sample Date:		Sample Time:	
% Moisture :		% Solids :					

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Mercury	0.20	ug/L	1	J	U	Yes	S2BVE



**USEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Record**

May 3

Case No:	43102	L
DAS No:	ME3PC2	
SDG No:		
For Lab Use Only		
Lab Contract No:	EPW09035	
Unit Price:		
Transfer To:		
Lab Contract No:		
Unit Price:		

Date Shipped: <i>11/7/12</i> Carrier Name: UPS Airbill: 1Z5490W42210093777 Shipped to: A4 Scientific, Inc. 1544 Sawdust Road Suite 505 The Woodlands TX 77380 (281) 292-5277	Chain of Custody Record		Sampler Signature: <i>John Spielberg</i>	
	Relinquished By	(Date / Time)	Received By	(Date / Time)
	1. <i>John Spielberg</i>	<i>11/7/12 - 1240</i>	<i>Ronan</i>	<i>11/8/12 9:49</i>
	2.			
	3.			
4.				

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	ORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
ME3PC2	Ground Water/ JOHN SPIELBERG	L/G	CN (21), TM/Hg (21)	51302075 (NaOH), 51302076 (HNO3) (2)	TMW-01	<i>11/6/12 - 855</i>	E3PC2	<i>0016826-01 2stx in SDG</i>
ME3PC3	Ground Water/ JOHN SPIELBERG	L/G	CN (21), TM/Hg (21)	51302081 (NaOH), 51302082 (HNO3) (2)	TMW-02	<i>11/5/12 - 1350</i>	E3PC3	<i>02</i>
ME3PC4	Ground Water/ JOHN SPIELBERG	L/G	CN (21), TM/Hg (21)	51302087 (NaOH), 51302088 (HNO3) (2)	TMW-02D	<i>{ 1350</i>	E3PC4	<i>03</i>
ME3PC6	Ground Water/ JOHN SPIELBERG	L/G	CN (21), TM/Hg (21)	51302107 (NaOH), 51302108 (HNO3) (2)	TMW-04	<i>did not sample gsd 11/7/12</i>	E3PC6	
ME3PC8	Field QC/ JOHN SPIELBERG	L/G	CN (21), TM/Hg (21)	51302119 (NaOH), 51302120 (HNO3) (2)	FB-01	<i>11/5/12 - 1310</i>	E3PC8	<i>0016826-04</i>
ME3PD0	Field QC/ JOHN SPIELBERG	L/G	CN (21), TM/Hg (21)	51302131 (NaOH), 51302132 (HNO3) (2)	PB-01	<i>11/6/12 - 1240</i>	E3PD0	<i>05</i>

Shipment for Case Complete: <input checked="" type="checkbox"/>	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s): <i>John Spielberg</i>	Cooler Temperature Upon Receipt: <i>4°C</i>	Chain of Custody Seal Number: <i>132737, 132738</i>
Analysis Key:	Concentration: <i>L = Low, M = Low/Medium, H = High</i>	Type/Designate: Composite = C, Grab = G	Custody Seal Intact? <input checked="" type="checkbox"/>	Shipment Iced? <input checked="" type="checkbox"/>
CN = CLP TAL Cyanide - water, TM/Hg = CLP TAL Total Metals/Hg - water				

01010

TR Number: **5-094688160-110212-0003**

LABORATORY COPY



USEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Record

Drury

Case No: 43102
 DAS No:
 SDG No: ME3PC2 **L**

Date Shipped: 11/7/12
 Carrier Name: UPS
 Airbill: 1Z5490W42210093786
 Shipped to: A4 Scientific, Inc.
 1544 Sawdust Road
 Suite 505
 The Woodlands TX 77380
 (281) 292-5277

Chain of Custody Record		Sampler Signature:
Relinquished By	(Date / Time)	Received By
<i>John Spielberg</i>	11/7/12 - 1310	<i>Rester</i> 11/8/12 9:49

For Lab Use Only
 Lab Contract No: EPW09035
 Unit Price:
 Transfer To:
 Lab Contract No:
 Unit Price:

INORGANIC SAMPLE No.	MATRIX/SAMPLER	CONC/TYPE	ANALYSIS/TURNAROUND	TAG No./PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	ORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
ME3PC5	Ground Water/ JOHN SPIELBERG	L/G	CN (21), TM/Hg (21)	51302099 (NaOH), 51302100 (NaOH), 51302101 (HNO3), 51302102 (HNO3) (4)	TMW-03	11/5/12 - 1610	E3PC5	0016826-06
ME3PC7	Ground Water/ JOHN SPIELBERG	L/G	CN (21), TM/Hg (21)	51302113 (NaOH), 51302114 (HNO3) (2)	TMW-05	11/6/12 - 1006	E3PC7	07
ME3PC9	Field QC/ JOHN SPIELBERG	L/G	CN (21), TM/Hg (21)	51302125 (NaOH), 51302126 (HNO3) (2)	FB-02	11/6/12 - 1430	E3PC9	08 Final by in EDT

Shipment for Case Complete? <i>yes</i>	Sample(s) to be used for laboratory QC: ME3PC5	Additional Sampler Signature(s): <i>John Spielberg</i>	Cooler Temperature Upon Receipt: 4°C	Chain of Custody Seal Number: 132739, 132740
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Custody Seal Intact? <i>Y</i>	Shipment Iced? <i>Y</i>

CN = CLP TAL Cyanide - water, TM/Hg = CLP TAL Total Metals/Hg - water

1100

TR Number: 5-094688160-110212-0004

LABORATORY COPY

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY ~ REGION V

ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Sample Delivery Group: ME3PC2 CERCLIS No: TBA

Case No: 43102 Site Name/Location: OTH Tamarack Operations

Contractor or EPA Lab: Art Scientific Data User: MDEQ

No. of Samples: 8 Date Sampled or Date Received: 3 Dec 2012

Have Chain-of-Custody records been received? Yes No

Have traffic reports or packing lists been received? Yes No

If no, are traffic reports or packing list numbers written on the Chain-of-Custody Record?
Yes No

If no, which traffic report or packing list numbers are missing?

Are basic data forms in? Yes No

No of samples claimed: 8 No. of samples received: _____

Received by: Pat Apejgun Date: 3 Dec 2012

Received by LSSS: Pat Apejgun Date: 5 Dec 2012

Review started: 12/13/12 Reviewer Signature: Xavier Edley

Total time spent on review: 11.5 ^{7 2.0 or 12/14/12} Date review completed: 12/14/12

Copied by: A. C. Harvey Date: December 18, 2012

Mailed to user by: Pat Apejgun Date: 19 Dec 2012

DATA USER:
Please fill in the blanks below and return this form to:
Sylvia Griffin, Data Mgmt. Coordinator, Region V, ML-10C

Data received by: _____ Date: _____

Data review received by: _____ Date: _____

- Inorganic Data Complete Suitable for Intended Purpose T if OK
- Organic Data Complete Suitable for Intended Purpose T if OK
- Dioxin data Complete Suitable for Intended Purpose T if OK
- SAS Data Complete Suitable for Intended Purpose T if OK

PROBLEMS: Please indicate reasons why data are not suitable for your uses.

Received by Data Mgmt. Coordinator for Files. Date: _____

ESAT Controlled Number: ESAT 5.417.00333 - pg 27 Dec 2012

DATE: December 27, 2012

Michigan Department of Environmental Quality
MDEQ - RRD Superfund
Attn: Mr. Joe Walczak
525 W. Allegan
Constitution Hall, 4th Floor, North
P.O. Box 30242
Lansing, MI 48909-7742

Site Name: C & H Tamarack Operations (MI) - level 3 data validation

<u>Case</u>	<u>Lab</u>	<u>Samples</u>	<u>SDG</u>	<u>Matrix</u>
43102	Kap Technologies	8	E3PC2	water

Analysis: volatiles/semivolatiles/pesticides/aroclors

Upon receipt of data, please check each package for completeness and note any missing deliverables below.

PLEASE!!!! Send this form back to Sylvia Griffin, Data Management Coordinator after filling in the blanks below.

Data Received by: _____ Date: _____

PROBLEMS:

Please indicate if data is complete, and note if there are any deliverables missing from the cases noted above.

Received by Data Management Coordinator, CRL for file.

Signature: _____ Date: _____

FROM: **U.S. EPA - Region 5**
Central Regional Laboratory
536 S. Clark, 10th Floor
Chicago, IL 60605

Sent By: Pat A. Joyner
Data Coordinator
ESAT Region 5 **TechLaw Inc.**

RECEIVED

JAN 2 2013

SUPERFUND

ESAT5.416.00162

act#
12-20-12

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V
SUPERFUND DIVISION

DATE:

SUBJECT: Review of Data
Received for Review on: 29 November 2012

FROM: Timothy Prendiville, Supervisor (SR-6J)
Superfund Contract Management Section

TO: Data User: MDEQ
walczakj@michigan.gov

Level 3 Data Validation for EDM EXES Reports

We have reviewed the data for the following case:

SITE Name: C & H Tamarack Operations (MI)

Case Number: 43102 SDG Number: E3PC2

Number and Type of Samples: 8 Waters (volatiles, semivolatiles, pesticides, aroclors)

Sample Numbers: E3PC2-E3PC5, E3PC7-E3PC9, E3PD0

Laboratory: KAP Technologies Hrs for Review:

Following are our findings:

CC: Howard Pham
Region 5 TPO
Mail Code: SA-5J

Case Number: 43102

SDG Number: E3PC2

Site Name: C & H Tamarack Operations (MI)

Laboratory: KAP Technologies

Below is a summary of the out-of-control audits and the possible effects on the data for this case:

Eight (8) preserved water samples labeled E3PC2-E3PC5, E3PC7-E3PC9, and E3PD0, were shipped to KAP Technologies located in The Woodlands, TX. All samples were collected 11/5/12 and 11/6/12 and received 11/7/12 and 11/8/12. All samples arrived at the proper shipping temperature range of 2 - 6°C, except for sample E3PC8. Sample E3PC8 arrived in a cooler with a temperature of 1.9°C. Sample results are not qualified for this discrepancy. For sample E3PC2, one of the two volatiles bottles was received by the laboratory broken.

All samples were analyzed for the volatile, semivolatile, pesticide, and aroclor lists of compounds. All samples were analyzed according to CLP SOW SOM01.2 (6/2007) and reviewed according to the NFG for SOM01.2 and the SOP for ESAT 5/TechLaw Validation of Contract Laboratory Program Organic Data (Version 2.6.2).

Sample E3PC5 was designated by the samplers to be used for laboratory QC, i.e. MS / MSD analyses.

Samples E3PC8, E3PC9, and E3PD0 were identified as field blanks.

Sample E3PC4 was identified as a field duplicate of sample E3PC3.

Case Number: 43102
Site Name: C & H Tamarack Operations (MI)

Page 3 of 10
SDG Number: E3PC2
Laboratory: KAP Technologies

1. HOLDING TIME

No Problems Found.

2. GC/MS TUNING AND GC INSTRUMENT PERFORMANCE

No Problems Found.

3. CALIBRATION

The following volatile samples are associated with an initial calibration percent relative standard deviation (%RSD) outside criteria. The compounds were not detected in the samples. Non-detected compounds are not qualified.

E3PC2, E3PC3, E3PC4, E3PC5, E3PC5MS, E3PC5MSD, E3PC7, E3PC8, E3PC9,
E3PD0, VBLK5L, VBLK5Q
Bromomethane, Bromoform

VBLKFS, VHBLK01
m,p-Xylene, 1,2,3-Trichlorobenzene

The following volatile samples are associated with an opening continuing calibration percent difference (%D) outside criteria. The compounds were not detected in the samples. Non-detected compounds are qualified "UJ".

VBLKFS, VHBLK01
1,2,3-Trichlorobenzene

4. BLANKS

The following volatile samples have common contaminant analyte concentrations reported less than 2x the CRQL. The associated method blank has common contaminant analyte concentration less than 2x the concentration criteria. Detected compounds are qualified "U". Non-detected compounds are not qualified. Reported sample concentrations have been elevated to 2x the CRQL.

Methylene chloride
E3PC2, E3PC3, E3PC4, E3PC5, E3PC5MS, E3PC5MSD, E3PC7, E3PC8, E3PC9,
E3PD0, VHBLK01

The following volatile samples have TIC concentrations reported less than 5X the method blank concentration. Detected compounds are qualified "U" and deleted from the TIC report.

Unknown @ 9.55
VHBLK01

Reviewed by: Deborah Connet / Techlaw-ESAT
Date: 12/20/2012

Case Number: 43102
Site Name: C & H Tamarack Operations (MI)

SDG Number: E3PC2
Laboratory: KAP Technologies

Unknown @ 10.71
E3PC2, E3PC3, E3PC4, E3PC5, E3PC7, E3PC8, E3PC9, E3PD0, VHBLK01

The following semivolatile samples have TIC concentrations reported less than 5X the method blank concentration. Detected compounds are qualified "U" and deleted from the TIC report.

Unknown @ 18.34
E3PC8

The following semivolatile samples have TIC concentrations reported less than 5X the field blank concentration. Detected compounds are qualified "U" and deleted from the TIC report. See Section 12 for more information.

CAS No. 84-69-5 1,2-Benzenedicarboxylic acid/ Unknown @ 14.63
E3PC2, E3PC4, E3PC5, E3PC7

5. DEUTERATED MONITORING COMPOUND AND SURROGATE RECOVERY

No Problems Found.

6A. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Sample E3PC5 was designated by the samplers to be used for laboratory QC, i.e. MS / MSD analyses.

The following volatile matrix spike/matrix spike duplicate samples have percent recovery greater than or equal to the expanded lower acceptance limit but less than the primary lower acceptance limit. The compounds were not detected in the samples. Non-detected compounds in the unspiked sample (E3PC5) are qualified "UJ".

E3PC5MS, E3PC5MSD
1,1-Dichloroethene, Benzene, Trichloroethene, Toluene

The following semivolatile matrix spike/matrix spike duplicate samples have percent recoveries greater than the upper acceptance criteria. The compounds were not detected in the samples. Non-detected compounds in the unspiked sample (E3PC5) are not qualified.

E3PC5MS, E3PC5MSD
4-Chloro-3-methylphenol, Penatchlorophenol

The following semivolatile matrix spike/matrix spike duplicate samples have percent recoveries greater than the upper acceptance criteria and equal to or lower than 100%. The compounds were not detected in the samples. Non-detected compounds in the unspiked sample (E3PC5) are not qualified.

Case Number: 43102
 Site Name: C & H Tamarack Operations (MI)

SDG Number: E3PC2
 Laboratory: KAP Technologies

E3PC5MS, E3PC5MSD
 4-Nitrophenol

The following pesticide matrix spike/matrix spike duplicate samples have percent recovery greater than the upper acceptance criteria on only 1 GC column. Detected and non-detected compounds are not qualified as the lower of the 2 possible values (i.e. the reported value) is within the acceptance range.

E3PC5MS
 gamma-BHC (Lindane), Endrin

The relative percent difference (RPD) were recalculated for aroclor matrix spike and matrix spike duplicate using the reported values.

	E3PC5MS	E3PC5MSD	%RPDs
Aroclor analytes:	µg/L	µg/L	
Aroclor-1016	76	60	24*
Aroclor-1260	72	60	18

The relative percent difference (RPD) between the following aroclor matrix spike and matrix spike duplicate recoveries is outside criteria. The compounds were not detected in the samples. Non-detected compounds in the unspiked sample (E3PC5) are qualified "UJ".

E3PC5MS, E3PC5MSD
 Aroclor-1016

The relative percent difference (RPD) between the following aroclor matrix spike and matrix spike duplicate recoveries is outside criteria on only 1 GC column. Detected and non-detected compounds are not qualified as the lower of the 2 possible values (i.e. the reported value) is within the acceptance range.

E3PC5MS, E3PC5MSD
 Aroclor-1260

6B. LABORATORY CONTROL SAMPLE

No Problems Found.

7. FIELD BLANK AND FIELD DUPLICATE

Samples E3PC8, E3PC9, and E3PD0 were identified as field blanks. Results are summarized in the following tables:

Case Number: 43102
 Site Name: C & H Tamarack Operations (MI)

SDG Number: E3PC2
 Laboratory: KAP Technologies

	E3PC8	E3PC9	E3PD0
Semivolatile analytes:	µg/L	µg/L	ug/L
# of SVOA TICs	1	2	1

Sample E3PC4 was identified as a field duplicate of sample E3PC3. Results are summarized in the following tables:

	E3PC3	E3PC4	%RPDs
Volatile analytes:	µg/L	µg/L	
# of VOA TICs	2	2	----

	E3PC3	E3PC4	%RPDs
Semivolatile analytes:	µg/L	µg/L	
# of SVOA TICs	10	9	----

Results are not qualified based upon the results of the field duplicates.

8. INTERNAL STANDARDS

No Problems Found.

9. COMPOUND IDENTIFICATION

After reviewing the mass spectra and chromatograms it appears that all volatile, semivolatile, pesticide and aroclor compounds were properly identified.

10. COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS

The following volatile samples have analyte concentrations below the quantitation limit (CRQL). Detected compounds are qualified "J".

VBLK5L, VBLK5Q
 Methylene chloride

A library search indicates a match below 85% for a TIC compound in the volatile sample. Detected compounds are qualified "J".

Unknown @ 9.55
 VBLKFS

Unknown @ 10.71
 VBLK5L, VBLK5Q

Case Number: 43102
 Site Name: C & H Tamarack Operations (MI)

SDG Number: E3PC2
 Laboratory: KAP Technologies

A library search indicates a match at or above 85% for a TIC compound in the volatile sample. Detected compounds are qualified "NJ".

CAS No. 76-22-2 Camphor
 CAS No. 4695-62-9 Bicyclo[2.2.1]heptan-2-one, 1,3
 E3PC4

CAS No. 464-49-3 Bicyclo[2.2.1]heptan-2-one, 1,7
 CAS No. 1195-79-5 Bicyclo[2.2.1]heptan-2-one, 1,3
 E3PC3

A library search indicates a match below 85% for a TIC compound in the semivolatile sample. Detected compounds are qualified "J".

Unknown @ 3.32
 E3PC7

Unknown @ 7.33; Unknown @ 7.89; Unknown @ 8.59; Unknown @ 12.90;
 Unknown @ 12.98; Unknown @ 14.51; Unknown @ 15.66
 E3PC3, E3PC4

Unknown @ 10.04
 E3PC5, E3PD0

Unknown @ 18.12; Unknown @ 18.18
 E3PC2

Unknown @ 18.39
 SBLK25

A library search indicates a match at or above 85% for a TIC compound in the semivolatile sample. Detected compounds are qualified "NJ".

CAS No. 57-10-3 n-Hexadecanoic acid
 E3PC9

CAS No. 84-69-5 1,2-Benzenedicarboxylic acid
 E3PC8

CAS No. 464-49-3 Bicyclo[2.2.1]heptan-2-one, 1
 CAS No. 20324-34-9 2,5,8,11-Tetraoxatetradecan-1
 E3PC3, E3PC4

The following pesticide samples have analyte concentrations below the quantitation limit (CRQL). Detected compounds are qualified "J".

Case Number: 43102
Site Name: C & H Tamarack Operations (MI)

SDG Number: E3PC2
Laboratory: KAP Technologies

PLCS17
gamma-BHC (Lindane), Heptachlor epoxide, Dieldrin, 4,4'-DDE, Endrin,
Endosulfan sulfate, gamma-Chlordane

The following aroclor samples have analyte concentrations below the quantitation limit (CRQL).
Detected compounds are qualified "J".

ALCS16
Aroclor-1260

11. SYSTEM PERFORMANCE

GC/MS baseline indicated acceptable performance.

12. ADDITIONAL INFORMATION

The following semivolatile samples had Tentatively Identified Compounds (both Unknown and with CAS No.) deleted from the TIC lists because they are common laboratory artifacts/contaminants – e.g. Aldol condensation products, solvent preservatives, and reagent contaminants. In this SDG the contaminants are siloxanes at levels less than 100 µg/L.

CAS No. 541-05-9 Cyclotrisiloxane, hexamethyl
E3PC5, E3PC7, E3PC8, E3PC9

CAS No. 556-67-2 Cyclotetrasiloxane, octamethyl
E3PC5, E3PC8, E3PC9, E3PD0

The following semivolatile samples have internal standard area counts that are outside the primary lower limit criteria but greater than the expanded lower limit (20% of 12-Hr Std) in a closing CCV. There are currently no guidelines on qualifying sample results for this deficiency; therefore, no sample results were qualified.

1,2-Dichlorobenzene-d₄, Naphthalene-d₈
E3PC2, E3PC3, E3PC5MS, E3PC5MSD, SBLK25

The following semivolatile samples had alkanes improperly listed on the Form I TICs. They were removed by the Reviewer.

E3PC7, E3PC8

The following semivolatile samples have a compound identified by CAS No. in some samples and as an Unknown TIC in other samples. A comparison of the chromatograms demonstrated that the same compound was present in the respective samples. Copies of the chromatograms are included with the validation report. See Section 4 for more information.

Case Number: 43102
Site Name: C & H Tamarack Operations (MI)

Page 9 of 10
SDG Number: E3PC2
Laboratory: KAP Technologies

Unknown @ 14.63

E3PC7, E3PC9

versus

CAS No. 84-69-5 1,2-Benzenedicarboxylic acid,
E3PC2, E3PC4, E3PC5

TICs with no CAS Numbers were not reported in the EXES Sample Summary Report for the volatile and semivolatile fractions. Please refer to Word document "43102 E3PC2 TIC Report" for the validated TIC results.

The following pesticide sample was not included in the sample summary or superset. Form Is are included with the hard copy data package.

PLCS17

The following aroclor sample was not included in the sample summary or superset. Form Is are included with the hard copy data package.

ALCS16

Case Number: 43102

SDG Number: E3PC2

Site Name: C & H Tamarack Operations (MI)

Laboratory: KAP Technologies

CADRE Data Qualifier Sheet

<u>Qualifiers</u>	<u>Data Qualifier Definitions</u>
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the action limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification.
NJ	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification and the associated numerical value represents its approximate concentration.
R	The data are unusable. (The compound may or may not be present.)

Sample Summary Report

Case No: 43102	Contract: EPW11031	SDG No: E3PC2	Lab Code: KAP
Sample Number: ABLK16	Method: Aroclor	Matrix: Water	MA Number: DEFAULT
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture: 0.00		% Solids:	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	1.0	UG/L	1.0	U	U	Yes	
Aroclor-1221	1.0	UG/L	1.0	U	U	Yes	
Aroclor-1232	1.0	UG/L	1.0	U	U	Yes	
Aroclor-1242	1.0	UG/L	1.0	U	U	Yes	
Aroclor-1248	1.0	UG/L	1.0	U	U	Yes	
Aroclor-1254	1.0	UG/L	1.0	U	U	Yes	
Aroclor-1260	1.0	UG/L	1.0	U	U	Yes	
Aroclor-1262	1.0	UG/L	1.0	U	U	Yes	
Aroclor-1268	1.0	UG/L	1.0	U	U	Yes	

Case No:	43102	Contract:	EPW11031	SDG No:	E3PC2	Lab Code:	KAP
Sample Number:	E3PC2	Method:	BNA	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	TMW-01	pH:	7.5	Sample Date:	11/06/2012	Sample Time:	08:55:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	5.0	UG/L	1.0	U	U	Yes	
Phenol	5.0	UG/L	1.0	U	U	Yes	
Bis(2-chloroethyl)ether	5.0	UG/L	1.0	U	U	Yes	
2-Chlorophenol	5.0	UG/L	1.0	U	U	Yes	
2-Methylphenol	5.0	UG/L	1.0	U	U	Yes	
2,2'-Oxybis(1-chloropropane)	5.0	UG/L	1.0	U	U	Yes	
Acetophenone	5.0	UG/L	1.0	U	U	Yes	
4-Methylphenol	5.0	UG/L	1.0	U	U	Yes	
N-Nitroso-di-n-propylamine	5.0	UG/L	1.0	U	U	Yes	
Hexachloroethane	5.0	UG/L	1.0	U	U	Yes	
Nitrobenzene	5.0	UG/L	1.0	U	U	Yes	
Isophorone	5.0	UG/L	1.0	U	U	Yes	
2-Nitrophenol	5.0	UG/L	1.0	U	U	Yes	
2,4-Dimethylphenol	5.0	UG/L	1.0	U	U	Yes	
Bis(2-chloroethoxy)methane	5.0	UG/L	1.0	U	U	Yes	
2,4-Dichlorophenol	5.0	UG/L	1.0	U	U	Yes	
Naphthalene	5.0	UG/L	1.0	U	U	Yes	
4-Chloroaniline	5.0	UG/L	1.0	U	U	Yes	
Hexachlorobutadiene	5.0	UG/L	1.0	U	U	Yes	
Caprolactam	5.0	UG/L	1.0	U	U	Yes	
4-Chloro-3-methylphenol	5.0	UG/L	1.0	U	U	Yes	
2-Methylnaphthalene	5.0	UG/L	1.0	U	U	Yes	
Hexachlorocyclopentadiene	5.0	UG/L	1.0	U	U	Yes	
2,4,6-Trichlorophenol	5.0	UG/L	1.0	U	U	Yes	
2,4,5-Trichlorophenol	5.0	UG/L	1.0	U	U	Yes	
1,1'-Biphenyl	5.0	UG/L	1.0	U	U	Yes	
2-Chloronaphthalene	5.0	UG/L	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	10	UG/L	1.0	U	U	Yes	
Dimethylphthalate	5.0	UG/L	1.0	U	U	Yes	
2,6-Dinitrotoluene	5.0	UG/L	1.0	U	U	Yes	
Acenaphthylene	5.0	UG/L	1.0	U	U	Yes	
3-Nitroaniline	10	UG/L	1.0	U	U	Yes	
Acenaphthene	5.0	UG/L	1.0	U	U	Yes	
2,4-Dinitrophenol	10	UG/L	1.0	U	U	Yes	
4-Nitrophenol	10	UG/L	1.0	U	U	Yes	
Dibenzofuran	5.0	UG/L	1.0	U	U	Yes	
2,4-Dinitrotoluene	5.0	UG/L	1.0	U	U	Yes	
Diethylphthalate	5.0	UG/L	1.0	U	U	Yes	
Fluorene	5.0	UG/L	1.0	U	U	Yes	
4-Chlorophenylphenylether	5.0	UG/L	1.0	U	U	Yes	
4-Nitroaniline	10	UG/L	1.0	U	U	Yes	
4,6-Dinitro-2-methylphenol	10	UG/L	1.0	U	U	Yes	
N-Nitrosodiphenylamine	5.0	UG/L	1.0	U	U	Yes	
1,2,4,5-Tetrachlorobenzene	5.0	UG/L	1.0	U	U	Yes	
4-Bromophenylphenylether	5.0	UG/L	1.0	U	U	Yes	
Hexachlorobenzene	5.0	UG/L	1.0	U	U	Yes	
Atrazine	5.0	UG/L	1.0	U	U	Yes	
Pentachlorophenol	10	UG/L	1.0	U	U	Yes	
Phenanthrene	5.0	UG/L	1.0	U	U	Yes	
Anthracene	5.0	UG/L	1.0	U	U	Yes	
Carbazole	5.0	UG/L	1.0	U	U	Yes	
Di-n-butylphthalate	5.0	UG/L	1.0	U	U	Yes	
Fluoranthene	5.0	UG/L	1.0	U	U	Yes	
Pyrene	5.0	UG/L	1.0	U	U	Yes	
Butylbenzylphthalate	5.0	UG/L	1.0	U	U	Yes	
3,3'-Dichlorobenzidine	5.0	UG/L	1.0	U	U	Yes	
Benzo(a)anthracene	5.0	UG/L	1.0	U	U	Yes	
Chrysene	5.0	UG/L	1.0	U	U	Yes	
Bis(2-ethylhexyl)	5.0	UG/L	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	5.0	UG/L	1.0	U	U	Yes	
Di-n-octylphthalate	5.0	UG/L	1.0	U	U	Yes	
Benzo(b)fluorant hene	5.0	UG/L	1.0	U	U	Yes	
Benzo(k)fluorant hene	5.0	UG/L	1.0	U	U	Yes	
Benzo(a)pyrene	5.0	UG/L	1.0	U	U	Yes	
Indeno(1,2,3-cd)pyrene	5.0	UG/L	1.0	U	U	Yes	
Dibenzo(a,h)anthracene	5.0	UG/L	1.0	U	U	Yes	
Benzo(g,h,i)perylene	5.0	UG/L	1.0	U	U	Yes	
2,3,4,6-Tetrachlorophenol	5.0	UG/L	1.0	U	U	Yes	
1,2-Benzenedicarboxylic acid, bis(2-methylpropyl) ester			1.0	NJ		No	

Case No:	43102	Contract:	EPW11031	SDG No:	E3PC2	Lab Code:	KAP
Sample Number:	E3PC2	Method:	Pest	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	<i>Jmw-01</i>	pH:	7.5	Sample Date:	11/06/2012	Sample Time:	08:55:00
% Moisture :		% Solids :					

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
alpha-BHC	0.050	UG/L	1.0	U	U	Yes	
beta-BHC	0.050	UG/L	1.0	U	U	Yes	
delta-BHC	0.050	UG/L	1.0	U	U	Yes	
gamma-BHC (Lindane)	0.050	UG/L	1.0	U	U	Yes	
Heptachlor	0.050	UG/L	1.0	U	U	Yes	
Aldrin	0.050	UG/L	1.0	U	U	Yes	
Heptachlor epoxide	0.050	UG/L	1.0	U	U	Yes	
Endosulfan I	0.050	UG/L	1.0	U	U	Yes	
Dieldrin	0.10	UG/L	1.0	U	U	Yes	
4,4'-DDE	0.10	UG/L	1.0	U	U	Yes	
Endrin	0.10	UG/L	1.0	U	U	Yes	
Endosulfan II	0.10	UG/L	1.0	U	U	Yes	
4,4'-DDD	0.10	UG/L	1.0	U	U	Yes	
Endosulfan sulfate	0.10	UG/L	1.0	U	U	Yes	
4,4'-DDT	0.10	UG/L	1.0	U	U	Yes	
Methoxychlor	0.50	UG/L	1.0	U	U	Yes	
Endrin ketone	0.10	UG/L	1.0	U	U	Yes	
Endrin aldehyde	0.10	UG/L	1.0	U	U	Yes	
alpha-Chlordane	0.050	UG/L	1.0	U	U	Yes	
gamma- Chlordane	0.050	UG/L	1.0	U	U	Yes	
Toxaphene	5.0	UG/L	1.0	U	U	Yes	

Case No:	43102	Contract:	EPW11031	SDG No:	E3PC2	Lab Code:	KAP
Sample Number:	E3PC2	Method:	Aroclor	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	<i>tmw-01</i>	pH:	7.5	Sample Date:	11/06/2012	Sample Time:	08:55:00
% Moisture :		% Solids :					

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	1.0	UG/L	1.0	U	U	Yes	
Aroclor-1221	1.0	UG/L	1.0	U	U	Yes	
Aroclor-1232	1.0	UG/L	1.0	U	U	Yes	
Aroclor-1242	1.0	UG/L	1.0	U	U	Yes	
Aroclor-1248	1.0	UG/L	1.0	U	U	Yes	
Aroclor-1254	1.0	UG/L	1.0	U	U	Yes	
Aroclor-1260	1.0	UG/L	1.0	U	U	Yes	
Aroclor-1262	1.0	UG/L	1.0	U	U	Yes	
Aroclor-1268	1.0	UG/L	1.0	U	U	Yes	

Case No:	43102	Contract:	BPW11031	SDG No:	E3PC2	Lab Code:	KAP
Sample Number:	E3PC2	Method:	VOA_Low_Med	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	JMW-01	pH:	2	Sample Date:	11/06/2012	Sample Time:	08:55:00
% Moisture :		% Solids :					

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoromethane	5.0	UG/L	1.0	U	U	Yes	
Chloromethane	5.0	UG/L	1.0	U	U	Yes	
Vinyl chloride	5.0	UG/L	1.0	U	U	Yes	
Bromomethane	5.0	UG/L	1.0	U	U	Yes	
Chloroethane	5.0	UG/L	1.0	U	U	Yes	
Trichlorofluoroethane	5.0	UG/L	1.0	U	U	Yes	
1,1-Dichloroethene	5.0	UG/L	1.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	UG/L	1.0	U	U	Yes	
Acetone	10	UG/L	1.0	U	U	Yes	
Carbon disulfide	5.0	UG/L	1.0	U	U	Yes	
Methyl acetate	5.0	UG/L	1.0	U	U	Yes	
Methylene chloride	10	UG/L	1.0	JB	U	Yes	
trans-1,2-Dichloroethene	5.0	UG/L	1.0	U	U	Yes	
Methyl tert-butyl ether	5.0	UG/L	1.0	U	U	Yes	
1,1-Dichloroethane	5.0	UG/L	1.0	U	U	Yes	
cis-1,2-Dichloroethene	5.0	UG/L	1.0	U	U	Yes	
2-Butanone	10	UG/L	1.0	U	U	Yes	
Bromochloromethane	5.0	UG/L	1.0	U	U	Yes	
Chloroform	5.0	UG/L	1.0	U	U	Yes	
1,1,1-Trichloroethane	5.0	UG/L	1.0	U	U	Yes	
Cyclohexane	5.0	UG/L	1.0	U	U	Yes	
Carbon tetrachloride	5.0	UG/L	1.0	U	U	Yes	
Benzene	5.0	UG/L	1.0	U	U	Yes	
1,2-Dichloroethane	5.0	UG/L	1.0	U	U	Yes	
1,4-Dioxane	100	UG/L	1.0	U	U	Yes	
Trichloroethene	5.0	UG/L	1.0	U	U	Yes	
Methylcyclohexane	5.0	UG/L	1.0	U	U	Yes	
1,2-Dichloropropane	5.0	UG/L	1.0	U	U	Yes	
Bromodichloromethane	5.0	UG/L	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.0	UG/L	1.0	U	U	Yes	
cis-1,3-Dichloropropene	5.0	UG/L	1.0	U	U	Yes	
4-Methyl-2-pentanone	10	UG/L	1.0	U	U	Yes	
Toluene	5.0	UG/L	1.0	U	U	Yes	
trans-1,3-Dichloropropene	5.0	UG/L	1.0	U	U	Yes	
1,1,2-Trichloroethane	5.0	UG/L	1.0	U	U	Yes	
Tetrachloroethene	5.0	UG/L	1.0	U	U	Yes	
2-Hexanone	10	UG/L	1.0	U	U	Yes	
Dibromochloroethane	5.0	UG/L	1.0	U	U	Yes	
1,2-Dibromoethane	5.0	UG/L	1.0	U	U	Yes	
Chlorobenzene	5.0	UG/L	1.0	U	U	Yes	
Ethylbenzene	5.0	UG/L	1.0	U	U	Yes	
o-Xylene	5.0	UG/L	1.0	U	U	Yes	
m,p-Xylene	5.0	UG/L	1.0	U	U	Yes	
Styrene	5.0	UG/L	1.0	U	U	Yes	
Bromoform	5.0	UG/L	1.0	U	U	Yes	
Isopropylbenzene	5.0	UG/L	1.0	U	U	Yes	
1,1,2,2-Tetrachloroethane	5.0	UG/L	1.0	U	U	Yes	
1,3-Dichlorobenzene	5.0	UG/L	1.0	U	U	Yes	
1,4-Dichlorobenzene	5.0	UG/L	1.0	U	U	Yes	
1,2-Dichlorobenzene	5.0	UG/L	1.0	U	U	Yes	
1,2-Dibromo-3-chloropropane	5.0	UG/L	1.0	U	U	Yes	
1,2,4-Trichlorobenzene	5.0	UG/L	1.0	U	U	Yes	
1,2,3-Trichlorobenzene	5.0	UG/L	1.0	U	U	Yes	

Case No:	43102	Contract:	EPW11031	SDG No:	E3PC2	Lab Code:	KAP
Sample Number:	E3PC3	Method:	VOA_Low_Med	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	JMW-02	pH:	2	Sample Date:	11/05/2012	Sample Time:	13:50:00
% Moisture :		% Solids :					

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoromethane	5.0	UG/L	1.0	U	U	Yes	
Chloromethane	5.0	UG/L	1.0	U	U	Yes	
Vinyl chloride	5.0	UG/L	1.0	U	U	Yes	
Bromomethane	5.0	UG/L	1.0	U	U	Yes	
Chloroethane	5.0	UG/L	1.0	U	U	Yes	
Trichlorofluoroethane	5.0	UG/L	1.0	U	U	Yes	
1,1-Dichloroethene	5.0	UG/L	1.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	UG/L	1.0	U	U	Yes	
Acetone	10	UG/L	1.0	U	U	Yes	
Carbon disulfide	5.0	UG/L	1.0	U	U	Yes	
Methyl acetate	5.0	UG/L	1.0	U	U	Yes	
Methylene chloride	10	UG/L	1.0	B	U	Yes	
trans-1,2-Dichloroethene	5.0	UG/L	1.0	U	U	Yes	
Methyl tert-butyl ether	5.0	UG/L	1.0	U	U	Yes	
1,1-Dichloroethane	5.0	UG/L	1.0	U	U	Yes	
cis-1,2-Dichloroethene	5.0	UG/L	1.0	U	U	Yes	
2-Butanone	10	UG/L	1.0	U	U	Yes	
Bromochloromethane	5.0	UG/L	1.0	U	U	Yes	
Chloroform	5.0	UG/L	1.0	U	U	Yes	
1,1,1-Trichloroethane	5.0	UG/L	1.0	U	U	Yes	
Cyclohexane	5.0	UG/L	1.0	U	U	Yes	
Carbon tetrachloride	5.0	UG/L	1.0	U	U	Yes	
Benzene	5.0	UG/L	1.0	U	U	Yes	
1,2-Dichloroethane	5.0	UG/L	1.0	U	U	Yes	
1,4-Dioxane	100	UG/L	1.0	U	U	Yes	
Trichloroethene	5.0	UG/L	1.0	U	U	Yes	
Methylcyclohexane	5.0	UG/L	1.0	U	U	Yes	
1,2-Dichloropropane	5.0	UG/L	1.0	U	U	Yes	
Bromodichloromethane	5.0	UG/L	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.0	UG/L	1.0	U	U	Yes	
cis-1,3-Dichloropropene	5.0	UG/L	1.0	U	U	Yes	
4-Methyl-2-pentanone	10	UG/L	1.0	U	U	Yes	
Toluene	5.0	UG/L	1.0	U	U	Yes	
trans-1,3-Dichloropropene	5.0	UG/L	1.0	U	U	Yes	
1,1,2-Trichloroethane	5.0	UG/L	1.0	U	U	Yes	
Tetrachloroethene	5.0	UG/L	1.0	U	U	Yes	
2-Hexanone	10	UG/L	1.0	U	U	Yes	
Dibromochloroethane	5.0	UG/L	1.0	U	U	Yes	
1,2-Dibromoethane	5.0	UG/L	1.0	U	U	Yes	
Chlorobenzene	5.0	UG/L	1.0	U	U	Yes	
Ethylbenzene	5.0	UG/L	1.0	U	U	Yes	
o-Xylene	5.0	UG/L	1.0	U	U	Yes	
m,p-Xylene	5.0	UG/L	1.0	U	U	Yes	
Styrene	5.0	UG/L	1.0	U	U	Yes	
Bromoform	5.0	UG/L	1.0	U	U	Yes	
Isopropylbenzene	5.0	UG/L	1.0	U	U	Yes	
1,1,2,2-Tetrachloroethane	5.0	UG/L	1.0	U	U	Yes	
1,3-Dichlorobenzene	5.0	UG/L	1.0	U	U	Yes	
1,4-Dichlorobenzene	5.0	UG/L	1.0	U	U	Yes	
1,2-Dichlorobenzene	5.0	UG/L	1.0	U	U	Yes	
1,2-Dibromo-3-chloropropane	5.0	UG/L	1.0	U	U	Yes	
1,2,4-Trichlorobenzene	5.0	UG/L	1.0	U	U	Yes	
1,2,3-Trichlorobenzene	5.0	UG/L	1.0	U	U	Yes	
Bicyclo[2.2.1]heptan-2-one, 1,3,3-trimethyl-			1.0	NJ		Yes	
Bicyclo[2.2.1]heptan-2-one, 1,7,7-trimethyl-, (1R)-			1.0	NJ		Yes	

Case No:	43102	Contract:	EPW11031	SDG No:	E3PC2	Lab Code:	KAP
Sample Number:	E3PC3	Method:	Pest	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	JMW-02	pH:	6.1	Sample Date:	11/05/2012	Sample Time:	13:50:00
% Moisture :		% Solids :					

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
alpha-BHC	0.050	UG/L	1.0	U	U	Yes	
beta-BHC	0.050	UG/L	1.0	U	U	Yes	
delta-BHC	0.050	UG/L	1.0	U	U	Yes	
gamma-BHC (Lindane)	0.050	UG/L	1.0	U	U	Yes	
Heptachlor	0.050	UG/L	1.0	U	U	Yes	
Aldrin	0.050	UG/L	1.0	U	U	Yes	
Heptachlor epoxide	0.050	UG/L	1.0	U	U	Yes	
Endosulfan I	0.050	UG/L	1.0	U	U	Yes	
Dieldrin	0.10	UG/L	1.0	U	U	Yes	
4,4'-DDE	0.10	UG/L	1.0	U	U	Yes	
Endrin	0.10	UG/L	1.0	U	U	Yes	
Endosulfan II	0.10	UG/L	1.0	U	U	Yes	
4,4'-DDD	0.10	UG/L	1.0	U	U	Yes	
Endosulfan sulfate	0.10	UG/L	1.0	U	U	Yes	
4,4'-DDT	0.10	UG/L	1.0	U	U	Yes	
Methoxychlor	0.50	UG/L	1.0	U	U	Yes	
Endrin ketone	0.10	UG/L	1.0	U	U	Yes	
Endrin aldehyde	0.10	UG/L	1.0	U	U	Yes	
alpha-Chlordane	0.050	UG/L	1.0	U	U	Yes	
gamma- Chlordane	0.050	UG/L	1.0	U	U	Yes	
Toxaphene	5.0	UG/L	1.0	U	U	Yes	

Case No: 43102	Contract: EPW11031	SDG No: E3PC2	Lab Code: KAP
Sample Number: E3PC3	Method: BNA	Matrix: Water	MA Number: DEFAULT
Sample Location: <i>fmw-02</i>	pH: 6.1	Sample Date: 11/05/2012	Sample Time: 13:50:00
% Moisture :		% Solids :	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	5.0	UG/L	1.0	U	U	Yes	
Phenol	5.0	UG/L	1.0	U	U	Yes	
Bis(2-chloroethyl)ether	5.0	UG/L	1.0	U	U	Yes	
2-Chlorophenol	5.0	UG/L	1.0	U	U	Yes	
2-Methylphenol	5.0	UG/L	1.0	U	U	Yes	
2,2'-Oxybis(1-chloropropane)	5.0	UG/L	1.0	U	U	Yes	
Acetophenone	5.0	UG/L	1.0	U	U	Yes	
4-Methylphenol	5.0	UG/L	1.0	U	U	Yes	
N-Nitroso-di-n-propylamine	5.0	UG/L	1.0	U	U	Yes	
Hexachloroethane	5.0	UG/L	1.0	U	U	Yes	
Nitrobenzene	5.0	UG/L	1.0	U	U	Yes	
Isophorone	5.0	UG/L	1.0	U	U	Yes	
2-Nitrophenol	5.0	UG/L	1.0	U	U	Yes	
2,4-Dimethylphenol	5.0	UG/L	1.0	U	U	Yes	
Bis(2-chloroethoxy)methane	5.0	UG/L	1.0	U	U	Yes	
2,4-Dichlorophenol	5.0	UG/L	1.0	U	U	Yes	
Naphthalene	5.0	UG/L	1.0	U	U	Yes	
4-Chloroaniline	5.0	UG/L	1.0	U	U	Yes	
Hexachlorobutadiene	5.0	UG/L	1.0	U	U	Yes	
Caprolactam	5.0	UG/L	1.0	U	U	Yes	
4-Chloro-3-methylphenol	5.0	UG/L	1.0	U	U	Yes	
2-Methylnaphthalene	5.0	UG/L	1.0	U	U	Yes	
Hexachlorocyclopentadiene	5.0	UG/L	1.0	U	U	Yes	
2,4,6-Trichlorophenol	5.0	UG/L	1.0	U	U	Yes	
2,4,5-Trichlorophenol	5.0	UG/L	1.0	U	U	Yes	
1,1'-Biphenyl	5.0	UG/L	1.0	U	U	Yes	
2-Chloronaphthalene	5.0	UG/L	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	10	UG/L	1.0	U	U	Yes	
Dimethylphthalate	5.0	UG/L	1.0	U	U	Yes	
2,6-Dinitrotoluene	5.0	UG/L	1.0	U	U	Yes	
Acenaphthylene	5.0	UG/L	1.0	U	U	Yes	
3-Nitroaniline	10	UG/L	1.0	U	U	Yes	
Acenaphthene	5.0	UG/L	1.0	U	U	Yes	
2,4-Dinitrophenol	10	UG/L	1.0	U	U	Yes	
4-Nitrophenol	10	UG/L	1.0	U	U	Yes	
Dibenzofuran	5.0	UG/L	1.0	U	U	Yes	
2,4-Dinitrotoluene	5.0	UG/L	1.0	U	U	Yes	
Diethylphthalate	5.0	UG/L	1.0	U	U	Yes	
Fluorene	5.0	UG/L	1.0	U	U	Yes	
4-Chlorophenylphenylether	5.0	UG/L	1.0	U	U	Yes	
4-Nitroaniline	10	UG/L	1.0	U	U	Yes	
4,6-Dinitro-2-methylphenol	10	UG/L	1.0	U	U	Yes	
N-Nitrosodiphenylamine	5.0	UG/L	1.0	U	U	Yes	
1,2,4,5-Tetrachlorobenzene	5.0	UG/L	1.0	U	U	Yes	
4-Bromophenylphenylether	5.0	UG/L	1.0	U	U	Yes	
Hexachlorobenzene	5.0	UG/L	1.0	U	U	Yes	
Atrazine	5.0	UG/L	1.0	U	U	Yes	
Pentachlorophenol	10	UG/L	1.0	U	U	Yes	
Phenanthrene	5.0	UG/L	1.0	U	U	Yes	
Anthracene	5.0	UG/L	1.0	U	U	Yes	
Carbazole	5.0	UG/L	1.0	U	U	Yes	
Di-n-butylphthalate	5.0	UG/L	1.0	U	U	Yes	
Fluoranthene	5.0	UG/L	1.0	U	U	Yes	
Pyrene	5.0	UG/L	1.0	U	U	Yes	
Butylbenzylphthalate	5.0	UG/L	1.0	U	U	Yes	
3,3'-Dichlorobenzidine	5.0	UG/L	1.0	U	U	Yes	
Benzo(a)anthracene	5.0	UG/L	1.0	U	U	Yes	
Chrysene	5.0	UG/L	1.0	U	U	Yes	
Bis(2-ethylhexyl)	5.0	UG/L	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	5.0	UG/L	1.0	U	U	Yes	
Di-n-octylphthalate	5.0	UG/L	1.0	U	U	Yes	
Benzo(b)fluorant hene	5.0	UG/L	1.0	U	U	Yes	
Benzo(k)fluorant hene	5.0	UG/L	1.0	U	U	Yes	
Benzo(a)pyrene	5.0	UG/L	1.0	U	U	Yes	
Indeno(1,2,3-cd)pyrene	5.0	UG/L	1.0	U	U	Yes	
Dibenzo(a,h)anthracene	5.0	UG/L	1.0	U	U	Yes	
Benzo(g,h,i)perylene	5.0	UG/L	1.0	U	U	Yes	
2,3,4,6-Tetrachlorophenol	5.0	UG/L	1.0	U	U	Yes	
2,5,8,11-Tetraoxatetradecan-13-ol, 4,7,10-trimethyl-			1.0	NJ		Yes	
2,5,8,11-Tetraoxatetradecan-13-ol, 4,7,10-trimethyl-			1.0	NJ		Yes	
Bicyclo[2.2.1]heptan-2-one, 1,7,7-trimethyl-, (1R)-			1.0	NJ		Yes	

Case No:	43102	Contract:	BPW11031	SDG No:	E3PC2	Lab Code:	KAP
Sample Number:	E3PC3	Method:	Aroclor	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	JMW-02	pH:	6.1	Sample Date:	11/05/2012	Sample Time:	13:50:00
% Moisture :		% Solids :					

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	1.0	UG/L	1.0	U	U	Yes	
Aroclor-1221	1.0	UG/L	1.0	U	U	Yes	
Aroclor-1232	1.0	UG/L	1.0	U	U	Yes	
Aroclor-1242	1.0	UG/L	1.0	U	U	Yes	
Aroclor-1248	1.0	UG/L	1.0	U	U	Yes	
Aroclor-1254	1.0	UG/L	1.0	U	U	Yes	
Aroclor-1260	1.0	UG/L	1.0	U	U	Yes	
Aroclor-1262	1.0	UG/L	1.0	U	U	Yes	
Aroclor-1268	1.0	UG/L	1.0	U	U	Yes	

Case No:	43102	Contract:	EPW11031	SDG No:	E3PC2	Lab Code:	KAP
Sample Number:	E3PC4	Method:	Pest	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	JMW-02D	pH:	6.7	Sample Date:	11/05/2012	Sample Time:	13:50:00
% Moisture :		% Solids :					

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
alpha-BHC	0.050	UG/L	1.0	U	U	Yes	
beta-BHC	0.050	UG/L	1.0	U	U	Yes	
delta-BHC	0.050	UG/L	1.0	U	U	Yes	
gamma-BHC (Lindane)	0.050	UG/L	1.0	U	U	Yes	
Heptachlor	0.050	UG/L	1.0	U	U	Yes	
Aldrin	0.050	UG/L	1.0	U	U	Yes	
Heptachlor epoxide	0.050	UG/L	1.0	U	U	Yes	
Endosulfan I	0.050	UG/L	1.0	U	U	Yes	
Dieldrin	0.10	UG/L	1.0	U	U	Yes	
4,4'-DDE	0.10	UG/L	1.0	U	U	Yes	
Endrin	0.10	UG/L	1.0	U	U	Yes	
Endosulfan II	0.10	UG/L	1.0	U	U	Yes	
4,4'-DDD	0.10	UG/L	1.0	U	U	Yes	
Endosulfan sulfate	0.10	UG/L	1.0	U	U	Yes	
4,4'-DDT	0.10	UG/L	1.0	U	U	Yes	
Methoxychlor	0.50	UG/L	1.0	U	U	Yes	
Endrin ketone	0.10	UG/L	1.0	U	U	Yes	
Endrin aldehyde	0.10	UG/L	1.0	U	U	Yes	
alpha-Chlordane	0.050	UG/L	1.0	U	U	Yes	
gamma- Chlordane	0.050	UG/L	1.0	U	U	Yes	
Toxaphene	5.0	UG/L	1.0	U	U	Yes	

Case No:	43102	Contract:	BPW11031	SDG No:	E3PC2	Lab Code:	KAP
Sample Number:	E3PC4	Method:	BNA	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	Jmw-02D	pH:	6.7	Sample Date:	11/05/2012	Sample Time:	13:50:00
% Moisture :		% Solids :					

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	5.0	UG/L	1.0	U	U	Yes	
Phenol	5.0	UG/L	1.0	U	U	Yes	
Bis(2-chloroethyl)ether	5.0	UG/L	1.0	U	U	Yes	
2-Chlorophenol	5.0	UG/L	1.0	U	U	Yes	
2-Methylphenol	5.0	UG/L	1.0	U	U	Yes	
2,2'-Oxybis(1-chloropropane)	5.0	UG/L	1.0	U	U	Yes	
Acetophenone	5.0	UG/L	1.0	U	U	Yes	
4-Methylphenol	5.0	UG/L	1.0	U	U	Yes	
N-Nitroso-di-n-propylamine	5.0	UG/L	1.0	U	U	Yes	
Hexachloroethane	5.0	UG/L	1.0	U	U	Yes	
Nitrobenzene	5.0	UG/L	1.0	U	U	Yes	
Isophorone	5.0	UG/L	1.0	U	U	Yes	
2-Nitrophenol	5.0	UG/L	1.0	U	U	Yes	
2,4-dimethylphenol	5.0	UG/L	1.0	U	U	Yes	
Bis(2-chloroethoxy)methane	5.0	UG/L	1.0	U	U	Yes	
2,4-Dichlorophenol	5.0	UG/L	1.0	U	U	Yes	
Naphthalene	5.0	UG/L	1.0	U	U	Yes	
4-Chloroaniline	5.0	UG/L	1.0	U	U	Yes	
Hexachlorobutadiene	5.0	UG/L	1.0	U	U	Yes	
Caprolactam	5.0	UG/L	1.0	U	U	Yes	
4-Chloro-3-methylphenol	5.0	UG/L	1.0	U	U	Yes	
2-Methylnaphthalene	5.0	UG/L	1.0	U	U	Yes	
Hexachlorocyclopentadiene	5.0	UG/L	1.0	U	U	Yes	
2,4,6-Trichlorophenol	5.0	UG/L	1.0	U	U	Yes	
2,4,5-Trichlorophenol	5.0	UG/L	1.0	U	U	Yes	
1,1'-Biphenyl	5.0	UG/L	1.0	U	U	Yes	
2-Chloronaphthalene	5.0	UG/L	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	10	UG/L	1.0	U	U	Yes	
Dimethylphthalate	5.0	UG/L	1.0	U	U	Yes	
2,6-Dinitrotoluene	5.0	UG/L	1.0	U	U	Yes	
Acenaphthylene	5.0	UG/L	1.0	U	U	Yes	
3-Nitroaniline	10	UG/L	1.0	U	U	Yes	
Acenaphthene	5.0	UG/L	1.0	U	U	Yes	
2,4-Dinitrophenol	10	UG/L	1.0	U	U	Yes	
4-Nitrophenol	10	UG/L	1.0	U	U	Yes	
Dibenzofuran	5.0	UG/L	1.0	U	U	Yes	
2,4-Dinitrotoluene	5.0	UG/L	1.0	U	U	Yes	
Diethylphthalate	5.0	UG/L	1.0	U	U	Yes	
Fluorene	5.0	UG/L	1.0	U	U	Yes	
4-Chlorophenylphenylether	5.0	UG/L	1.0	U	U	Yes	
4-Nitroaniline	10	UG/L	1.0	U	U	Yes	
4,6-Dinitro-2-methylphenol	10	UG/L	1.0	U	U	Yes	
N-Nitrosodiphenylamine	5.0	UG/L	1.0	U	U	Yes	
1,2,4,5-Tetrachlorobenzene	5.0	UG/L	1.0	U	U	Yes	
4-Bromophenylphenylether	5.0	UG/L	1.0	U	U	Yes	
Hexachlorobenzene	5.0	UG/L	1.0	U	U	Yes	
Atrazine	5.0	UG/L	1.0	U	U	Yes	
Pentachlorophenol	10	UG/L	1.0	U	U	Yes	
Phenanthrene	5.0	UG/L	1.0	U	U	Yes	
Anthracene	5.0	UG/L	1.0	U	U	Yes	
Carbazole	5.0	UG/L	1.0	U	U	Yes	
Di-n-butylphthalate	5.0	UG/L	1.0	U	U	Yes	
Fluoranthene	5.0	UG/L	1.0	U	U	Yes	
Pyrene	5.0	UG/L	1.0	U	U	Yes	
Butylbenzylphthalate	5.0	UG/L	1.0	U	U	Yes	
3,3'-Dichlorobenzidine	5.0	UG/L	1.0	U	U	Yes	
Benzo(a)anthracene	5.0	UG/L	1.0	U	U	Yes	
Chrysene	5.0	UG/L	1.0	U	U	Yes	
Bis(2-ethylhexyl)	5.0	UG/L	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	5.0	UG/L	1.0	U	U	Yes	
Di-n-octylphthalate	5.0	UG/L	1.0	U	U	Yes	
Benzo(b)fluoranthene	5.0	UG/L	1.0	U	U	Yes	
Benzo(k)fluoranthene	5.0	UG/L	1.0	U	U	Yes	
Benzo(a)pyrene	5.0	UG/L	1.0	U	U	Yes	
Indeno(1,2,3-cd)pyrene	5.0	UG/L	1.0	U	U	Yes	
Dibenzo(a,h)anthracene	5.0	UG/L	1.0	U	U	Yes	
Benzo(g,h,i)perylene	5.0	UG/L	1.0	U	U	Yes	
2,3,4,6-Tetrachlorophenol	5.0	UG/L	1.0	U	U	Yes	
2,5,8,11-Tetraoxatetradecan-13-ol, 4,7,10-trimethyl-			1.0	NJ		Yes	
Bicyclo[2.2.1]heptan-2-one, 1,7,7-trimethyl-, (1R)-			1.0	NJ		Yes	
1,2-Benzenedicarboxylic acid, bis(2-methylpropyl) ester			1.0	NJ		No	

Case No:	43102	Contract:	EPW11031	SDG No:	E3PC2	Lab Code:	KAP
Sample Number:	E3PC4	Method:	VOA_Low_Med	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	JMW-02D	pH:	2	Sample Date:	11/05/2012	Sample Time:	13:50:00
% Moisture :		% Solids :					

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	5.0	UG/L	1.0	U	U	Yes	
Chloromethane	5.0	UG/L	1.0	U	U	Yes	
Vinyl chloride	5.0	UG/L	1.0	U	U	Yes	
Bromomethane	5.0	UG/L	1.0	U	U	Yes	
Chloroethane	5.0	UG/L	1.0	U	U	Yes	
Trichlorofluorom ethane	5.0	UG/L	1.0	U	U	Yes	
1,1-Dichloroethene	5.0	UG/L	1.0	U	U	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	UG/L	1.0	U	U	Yes	
Acetone	10	UG/L	1.0	U	U	Yes	
Carbon disulfide	5.0	UG/L	1.0	U	U	Yes	
Methyl acetate	5.0	UG/L	1.0	U	U	Yes	
Methylene chloride	10	UG/L	1.0	B	U	Yes	
trans-1,2-Dichloroethene	5.0	UG/L	1.0	U	U	Yes	
Methyl tert-butyl ether	5.0	UG/L	1.0	U	U	Yes	
1,1-Dichloroethane	5.0	UG/L	1.0	U	U	Yes	
cis-1,2-Dichloroethene	5.0	UG/L	1.0	U	U	Yes	
2-Butanone	10	UG/L	1.0	U	U	Yes	
Bromochloromet hane	5.0	UG/L	1.0	U	U	Yes	
Chloroform	5.0	UG/L	1.0	U	U	Yes	
1,1,1-Trichloroethane	5.0	UG/L	1.0	U	U	Yes	
Cyclohexane	5.0	UG/L	1.0	U	U	Yes	
Carbon tetrachloride	5.0	UG/L	1.0	U	U	Yes	
Benzene	5.0	UG/L	1.0	U	U	Yes	
1,2-Dichloroethane	5.0	UG/L	1.0	U	U	Yes	
1,4-Dioxane	100	UG/L	1.0	U	U	Yes	
Trichloroethene	5.0	UG/L	1.0	U	U	Yes	
Methylcyclohexa ne	5.0	UG/L	1.0	U	U	Yes	
1,2-Dichloropropane	5.0	UG/L	1.0	U	U	Yes	
Bromodichlorom	5.0	UG/L	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
ethane	5.0	UG/L	1.0	U	U	Yes	
cis-1,3-Dichloropropene	5.0	UG/L	1.0	U	U	Yes	
4-Methyl-2-pentanone	10	UG/L	1.0	U	U	Yes	
Toluene	5.0	UG/L	1.0	U	U	Yes	
trans-1,3-Dichloropropene	5.0	UG/L	1.0	U	U	Yes	
1,1,2-Trichloroethane	5.0	UG/L	1.0	U	U	Yes	
Tetrachloroethane	5.0	UG/L	1.0	U	U	Yes	
2-Hexanone	10	UG/L	1.0	U	U	Yes	
Dibromochloromethane	5.0	UG/L	1.0	U	U	Yes	
1,2-Dibromoethane	5.0	UG/L	1.0	U	U	Yes	
Chlorobenzene	5.0	UG/L	1.0	U	U	Yes	
Ethylbenzene	5.0	UG/L	1.0	U	U	Yes	
o-Xylene	5.0	UG/L	1.0	U	U	Yes	
m,p-Xylene	5.0	UG/L	1.0	U	U	Yes	
Styrene	5.0	UG/L	1.0	U	U	Yes	
Bromo form	5.0	UG/L	1.0	U	U	Yes	
Isopropylbenzene	5.0	UG/L	1.0	U	U	Yes	
1,1,2,2-tetrachloroethane	5.0	UG/L	1.0	U	U	Yes	
1,3-Dichlorobenzene	5.0	UG/L	1.0	U	U	Yes	
1,4-Dichlorobenzene	5.0	UG/L	1.0	U	U	Yes	
1,2-Dichlorobenzene	5.0	UG/L	1.0	U	U	Yes	
1,2-Dibromo-3-chloropropane	5.0	UG/L	1.0	U	U	Yes	
1,2,4-Trichlorobenzene	5.0	UG/L	1.0	U	U	Yes	
1,2,3-Trichlorobenzene	5.0	UG/L	1.0	U	U	Yes	
Camphor			1.0	NJ		Yes	
Bicyclo[2.2.1]heptan-2-one, 1,3,3-trimethyl-			1.0	NJ		Yes	

Case No:	43102	Contract:	EPW11031	SDG No:	E3PC2	Lab Code:	KAP
Sample Number:	E3PC4	Method:	Aroclor	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	<i>TMW-02D</i>	pH:	6.7	Sample Date:	11/05/2012	Sample Time:	13:50:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	1.0	UG/L	1.0	U	U	Yes	
Aroclor-1221	1.0	UG/L	1.0	U	U	Yes	
Aroclor-1232	1.0	UG/L	1.0	U	U	Yes	
Aroclor-1242	1.0	UG/L	1.0	U	U	Yes	
Aroclor-1248	1.0	UG/L	1.0	U	U	Yes	
Aroclor-1254	1.0	UG/L	1.0	U	U	Yes	
Aroclor-1260	1.0	UG/L	1.0	U	U	Yes	
Aroclor-1262	1.0	UG/L	1.0	U	U	Yes	
Aroclor-1268	1.0	UG/L	1.0	U	U	Yes	

Case No:	43102	Contract:	EPW11031	SDG No:	E3PC2	Lab Code:	KAP
Sample Number:	E3PC5	Method:	BNA	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	Tmw-03	pH:	6.5	Sample Date:	11/05/2012	Sample Time:	16:10:00
% Moisture :		% Solids :					

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	5.0	UG/L	1.0	U	U	Yes	
Phenol	5.0	UG/L	1.0	U	U	Yes	
Bis(2-chloroethyl)ether	5.0	UG/L	1.0	U	U	Yes	
2-Chlorophenol	5.0	UG/L	1.0	U	U	Yes	
2-Methylphenol	5.0	UG/L	1.0	U	U	Yes	
2,2'-Oxybis(1-chloropropane)	5.0	UG/L	1.0	U	U	Yes	
Acetophenone	5.0	UG/L	1.0	U	U	Yes	
4-Methylphenol	5.0	UG/L	1.0	U	U	Yes	
N-Nitroso-di-n-propylamine	5.0	UG/L	1.0	U	U	Yes	
Hexachloroethane	5.0	UG/L	1.0	U	U	Yes	
Nitrobenzene	5.0	UG/L	1.0	U	U	Yes	
Isophorone	5.0	UG/L	1.0	U	U	Yes	
2-Nitrophenol	5.0	UG/L	1.0	U	U	Yes	
2,4-Dimethylphenol	5.0	UG/L	1.0	U	U	Yes	
Bis(2-chloroethoxy)methane	5.0	UG/L	1.0	U	U	Yes	
2,4-Dichlorophenol	5.0	UG/L	1.0	U	U	Yes	
Naphthalene	5.0	UG/L	1.0	U	U	Yes	
4-Chloroaniline	5.0	UG/L	1.0	U	U	Yes	
Hexachlorobutadiene	5.0	UG/L	1.0	U	U	Yes	
Caprolactam	5.0	UG/L	1.0	U	U	Yes	
4-Chloro-3-methylphenol	5.0	UG/L	1.0	U	U	Yes	
2-Methylnaphthalene	5.0	UG/L	1.0	U	U	Yes	
Hexachlorocyclopentadiene	5.0	UG/L	1.0	U	U	Yes	
2,4,6-Trichlorophenol	5.0	UG/L	1.0	U	U	Yes	
2,4,5-Trichlorophenol	5.0	UG/L	1.0	U	U	Yes	
1,1'-Biphenyl	5.0	UG/L	1.0	U	U	Yes	
2-Chloronaphthalene	5.0	UG/L	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	10	UG/L	1.0	U	U	Yes	
Dimethylphthalate	5.0	UG/L	1.0	U	U	Yes	
2,6-Dinitrotoluene	5.0	UG/L	1.0	U	U	Yes	
Acenaphthylene	5.0	UG/L	1.0	U	U	Yes	
3-Nitroaniline	10	UG/L	1.0	U	U	Yes	
Acenaphthene	5.0	UG/L	1.0	U	U	Yes	
2,4-Dinitrophenol	10	UG/L	1.0	U	U	Yes	
4-Nitrophenol	10	UG/L	1.0	U	U	Yes	
Dibenzofuran	5.0	UG/L	1.0	U	U	Yes	
2,4-Dinitrotoluene	5.0	UG/L	1.0	U	U	Yes	
Diethylphthalate	5.0	UG/L	1.0	U	U	Yes	
Fluorene	5.0	UG/L	1.0	U	U	Yes	
4-Chlorophenylphenylether	5.0	UG/L	1.0	U	U	Yes	
4-Nitroaniline	10	UG/L	1.0	U	U	Yes	
4,6-Dinitro-2-methylphenol	10	UG/L	1.0	U	U	Yes	
N-Nitrosodiphenylamine	5.0	UG/L	1.0	U	U	Yes	
1,2,4,5-Tetrachlorobenzene	5.0	UG/L	1.0	U	U	Yes	
4-Bromophenylphenylether	5.0	UG/L	1.0	U	U	Yes	
Hexachlorobenzene	5.0	UG/L	1.0	U	U	Yes	
Atrazine	5.0	UG/L	1.0	U	U	Yes	
Pentachlorophenol	10	UG/L	1.0	U	U	Yes	
Phenanthrene	5.0	UG/L	1.0	U	U	Yes	
Anthracene	5.0	UG/L	1.0	U	U	Yes	
Carbazole	5.0	UG/L	1.0	U	U	Yes	
Di-n-butylphthalate	5.0	UG/L	1.0	U	U	Yes	
Fluoranthene	5.0	UG/L	1.0	U	U	Yes	
Pyrene	5.0	UG/L	1.0	U	U	Yes	
Butylbenzylphthalate	5.0	UG/L	1.0	U	U	Yes	
3,3'-Dichlorobenzidine	5.0	UG/L	1.0	U	U	Yes	
Benzo(a)anthracene	5.0	UG/L	1.0	U	U	Yes	
Chrysene	5.0	UG/L	1.0	U	U	Yes	
Bis(2-ethylhexyl)	5.0	UG/L	1.0	U	U	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	5.0	UG/L	1.0	U	U	Yes	
Di-n-octylphthalate	5.0	UG/L	1.0	U	U	Yes	
Benzo(b)fluoranthene	5.0	UG/L	1.0	U	U	Yes	
Benzo(k)fluoranthene	5.0	UG/L	1.0	U	U	Yes	
Benzo(a)pyrene	5.0	UG/L	1.0	U	U	Yes	
Indeno(1,2,3-cd)pyrene	5.0	UG/L	1.0	U	U	Yes	
Dibenzo(a,h)anthracene	5.0	UG/L	1.0	U	U	Yes	
Benzo(g,h,i)perylene	5.0	UG/L	1.0	U	U	Yes	
2,3,4,6-Tetrachlorophenol	5.0	UG/L	1.0	U	U	Yes	
1,2-Benzenedicarboxylic acid, bis(2-methylpropyl) ester			1.0	NJ		No	

Case No:	43102	Contract:	EPW11031	SDG No:	E3PC2	Lab Code:	KAP
Sample Number:	E3PC5	Method:	Aroclor	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	<i>JMW-03</i>	pH:	6.5	Sample Date:	11/05/2012	Sample Time:	16:10:00
% Moisture :		% Solids :					

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	1.0	UG/L	1.0	U	UJ	Yes	
Aroclor-1221	1.0	UG/L	1.0	U	U	Yes	
Aroclor-1232	1.0	UG/L	1.0	U	U	Yes	
Aroclor-1242	1.0	UG/L	1.0	U	U	Yes	
Aroclor-1248	1.0	UG/L	1.0	U	U	Yes	
Aroclor-1254	1.0	UG/L	1.0	U	U	Yes	
Aroclor-1260	1.0	UG/L	1.0	U	U	Yes	
Aroclor-1262	1.0	UG/L	1.0	U	U	Yes	
Aroclor-1268	1.0	UG/L	1.0	U	U	Yes	

Case No:	43102	Contract:	EPW11031	SDG No:	E3PC2	Lab Code:	KAP
Sample Number:	E3PC5	Method:	VOA_Low_Med	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	JMW-03	pH:	2	Sample Date:	11/05/2012	Sample Time:	16:10:00
% Moisture :		% Solids :					

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoromethane	5.0	UG/L	1.0	U	U	Yes	
Chloromethane	5.0	UG/L	1.0	U	U	Yes	
Vinyl chloride	5.0	UG/L	1.0	U	U	Yes	
Bromomethane	5.0	UG/L	1.0	U	U	Yes	
Chloroethane	5.0	UG/L	1.0	U	U	Yes	
Trichlorofluoroethane	5.0	UG/L	1.0	U	U	Yes	
1,1-Dichloroethene	5.0	UG/L	1.0	U	UJ	Yes	
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	UG/L	1.0	U	U	Yes	
Acetone	10	UG/L	1.0	U	U	Yes	
Carbon disulfide	5.0	UG/L	1.0	U	U	Yes	
Methyl acetate	5.0	UG/L	1.0	U	U	Yes	
Methylene chloride	10	UG/L	1.0	B	U	Yes	
trans-1,2-Dichloroethene	5.0	UG/L	1.0	U	U	Yes	
Methyl tert-butyl ether	5.0	UG/L	1.0	U	U	Yes	
1,1-Dichloroethane	5.0	UG/L	1.0	U	U	Yes	
cis-1,2-Dichloroethene	5.0	UG/L	1.0	U	U	Yes	
2-Butanone	10	UG/L	1.0	U	U	Yes	
Bromochloromethane	5.0	UG/L	1.0	U	U	Yes	
Chloroform	5.0	UG/L	1.0	U	U	Yes	
1,1,1-Trichloroethane	5.0	UG/L	1.0	U	U	Yes	
Cyclohexane	5.0	UG/L	1.0	U	U	Yes	
Carbon tetrachloride	5.0	UG/L	1.0	U	U	Yes	
Benzene	5.0	UG/L	1.0	U	UJ	Yes	
1,2-Dichloroethane	5.0	UG/L	1.0	U	U	Yes	
1,4-Dioxane	100	UG/L	1.0	U	U	Yes	
Trichloroethene	5.0	UG/L	1.0	U	UJ	Yes	
Methylcyclohexane	5.0	UG/L	1.0	U	U	Yes	
1,2-Dichloropropane	5.0	UG/L	1.0	U	U	Yes	
Bromodichloromethane	5.0	UG/L	1.0	U	U	Yes	