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Lab PEL(PEL Laboratories, Inc.) SDG E3NY9 Case 41861 Contract EPW11034 Region 5 DDTID 136416 SOW SOM01.2

### Tentatively Identified Compounds

BNA Sample=E3P06 Location=SD-03 Matrix=Soil Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
	Unknown_1	5.945767	540	ug/Kg	J
65-85-0	Benzoic acid_2	6.769467	700	ug/Kg	NJ
483-77-2	Naphthalene, 1,2,3,4-tetrahydro-1,6-dime_3	8.957050	340	ug/Kg	NJ
57-10-3	n-Hexadecanoic acid_4	11.15535	540	ug/Kg	NJ
1000197-14-1	4b,8-Dimethyl-2-isopropylphenanthrene, 4_5	11.63137	310	ug/Kg	NJ
	Unknown_6	11.80788	610	ug/Kg	J
	Unknown_7	11.82393	840	ug/Kg	J
6566-19-4	10,18-Bisnorabieta-5,7,9(10),11,13-penta_8	12.01648	590	ug/Kg	NJ
	Unknown_9	12.12345	490	ug/Kg	J
	Unknown_10	12.56738	490	ug/Kg	J
	Unknown_11	12.92575	930	ug/Kg	J
18326-16-4	Podocarpa-8,11,13-trien-3-one, 14-isopro_12	13.47665	920	ug/Kg	NJ
	Unknown_13	13.51945	1000	ug/Kg	J
	Unknown_14	13.56758	760	ug/Kg	J
3386-33-2	1-Chloro-octacecane_15	14.28965	1800	ug/Kg	NJ
	Unknown_16	14.80312	740	ug/Kg	J
7390-81-0	Oxirane, hexadecyl-_18	15.54123	760	ug/Kg	NJ
	Unknown_20	15.79262	1000	ug/Kg	J
	Unknown_21	16.04935	370	ug/Kg	J
	Unknown_22	16.42375	550	ug/Kg	J
	Unknown_23	16.85700	410	ug/Kg	J
1000214-20-7	Stigmasterol, 22,23-dihydro-_24	17.20465	4600	ug/Kg	NJ
	Unknown_25	17.53627	870	ug/Kg	J
1617-70-5	Lup-20(29)-en-3-one_26	17.64860	4200	ug/Kg	NJ
	Unknown_27	17.80905	3300	ug/Kg	J
58-22-0	Testosterone_28	18.08718	2300	ug/Kg	NJ
	Unknown_29	18.71832	470	ug/Kg	J

**National Functional Guidelines Report #09**

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Lab PEL(PEL Laboratories, Inc.) SDG E3NY9 Case 41861 Contract EPW11034 Region 5 DDTID 136416 SOW SOM01.2

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***Tentatively Identified Compounds***

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BNA Sample=E3P06 Location=SD-03 Matrix=Soil Level=Low

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CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
	Unknown_30	18.98575	700 ug/Kg		J

## National Functional Guidelines Report #09

Lab PEL(PEL Laboratories, Inc.) SDG E3NY9 Case 41861 Contract EPW11034 Region 5 DDTID 136416 SOW SOM01.2

### Tentatively Identified Compounds

BNA Sample=E3P07 Location=SD-03D Matrix=Soil Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
65-85-0	Benzoic acid_1	6.753483	460 ug/Kg		NJ
	Unknown_2	9.802217	130 ug/Kg		J
57-10-3	n-Hexadecanoic acid_3	11.15007	170 ug/Kg		NJ
1454-85-9	1-Heptadecanol_4	11.75982	2400 ug/Kg		NJ
6566-19-4	10,18-Bisnorabieta-5,7,9(10),11,13-penta_5	12.01120	120 ug/Kg		NJ
36653-82-4	1-Hexadecanol_6	12.66908	460 ug/Kg		NJ
	Unknown_7	12.70118	110 ug/Kg		J
	Unknown_8	13.47673	180 ug/Kg		J
	Unknown_9	13.50882	1100 ug/Kg		J
	Unknown_10	13.56230	150 ug/Kg		J
	Unknown_11	14.28972	480 ug/Kg		J
	Unknown_12	14.80318	310 ug/Kg		J
4292-19-7	Dodecane, 1-iodo-_13	15.00108	470 ug/Kg		NJ
	Unknown_14	15.54130	100 ug/Kg		J
	Unknown_16	15.79268	160 ug/Kg		J
	Unknown_17	15.96385	95 ug/Kg		J
	Unknown_18	16.15640	140 ug/Kg		J
	Unknown_19	16.69127	140 ug/Kg		J
	Unknown_20	16.85172	160 ug/Kg		J
83-47-6	gamma-Sitosterol_21	17.18868	1400 ug/Kg		NJ
	Unknown_22	17.26357	140 ug/Kg		J
	Unknown_23	17.36518	91 ug/Kg		J
	Unknown_24	17.52565	270 ug/Kg		J
1000152-04-3	Eudesma-4(14),11-diene_25	17.63797	480 ug/Kg		NJ
	Unknown_26	17.79843	280 ug/Kg		J
	Unknown_27	17.89470	180 ug/Kg		J
	Unknown_28	18.07655	550 ug/Kg		J

**National Functional Guidelines Report #09**

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Lab PEL(PEL Laboratories, Inc.) SDG E3NY9 Case 41861 Contract EPW11034 Region 5 DDTID 136416 SOW SOM01.2

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***Tentatively Identified Compounds***

---

BNA Sample=E3P07 Location=SD-03D Matrix=Soil Level=Low

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CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
	Unknown_29	18.83607	99 ug/Kg		J
	Unknown_30	18.98582	180 ug/Kg		J



## National Functional Guidelines Report #09

Lab PEL(PEL Laboratories, Inc.) SDG E3NY9 Case 41861 Contract EPW11034 Region 5 DDTID 136416 SOW SOM01.2

### Tentatively Identified Compounds

BNA Sample=E3P08 Location=SD-04 Matrix=Soil Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
496-11-7	Indane_1	6.020567	1000	ug/Kg	NJ
65-85-0	Benzoic acid_2	6.785433	2800	ug/Kg	NJ
7320-53-8	Dibenzofuran, 4-methyl-_3	9.588117	890	ug/Kg	NJ
7320-53-8	Dibenzofuran, 4-methyl-_4	9.668350	1400	ug/Kg	NJ
	Unknown_5	9.721833	1600	ug/Kg	J
	Unknown_6	9.839500	4900	ug/Kg	J
1430-97-3	9H-Fluorene, 2-methyl-_7	10.03205	960	ug/Kg	NJ
	Unknown_8	10.20855	1000	ug/Kg	J
	Unknown_9	10.23530	1200	ug/Kg	J
	Unknown_10	10.32088	1100	ug/Kg	J
605-02-7	Naphthalene, 1-phenyl-_11	10.87178	2200	ug/Kg	NJ
2531-84-2	Phenanthrene, 2-methyl-_12	11.09108	3500	ug/Kg	NJ
2531-84-2	Phenanthrene, 2-methyl-_13	11.12852	4800	ug/Kg	NJ
949-41-7	1H-Cyclopropa[1]phenanthrene, 1a,9b-dihyd_14	11.17665	2800	ug/Kg	NJ
	Unknown_15	11.23550	7700	ug/Kg	J
612-94-2	Naphthalene, 2-phenyl-_16	11.44943	3800	ug/Kg	NJ
3674-69-9	Phenanthrene, 4,5-dimethyl-_17	11.63663	1300	ug/Kg	NJ
22360-62-9	1-Methyl-3-phenyl-1H-indene_18	11.68478	970	ug/Kg	NJ
781-43-1	9,10-Dimethylanthracene_19	11.78105	2100	ug/Kg	NJ
	Unknown_20	11.81850	1900	ug/Kg	J
	Unknown_21	11.84523	940	ug/Kg	J
	Unknown_22	11.89338	1400	ug/Kg	J
2381-21-7	Pyrene, 1-methyl-_23	12.50312	580	ug/Kg	NJ
243-17-4	11H-Benzo[b]fluorene_24	12.64218	1600	ug/Kg	NJ
238-84-6	11H-Benzo[a]fluorene_25	12.71172	1300	ug/Kg	NJ
3442-78-2	Pyrene, 2-methyl-_26	12.75985	430	ug/Kg	NJ
198-55-0	Perylene_27	15.02768	3000	ug/Kg	NJ

**National Functional Guidelines Report #09**

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Lab PEL(PEL Laboratories, Inc.) SDG E3NY9 Case 41861 Contract EPW11034 Region 5 DDTID 136416 SOW SOM01.2

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***Tentatively Identified Compounds***

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BNA Sample=E3P08 Location=SD-04 Matrix=Soil Level=Low

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CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
198-55-0	Perylene_28	15.22023	5700	ug/Kg	NJ
	Unknown_29	16.87295	1100	ug/Kg	J

## National Functional Guidelines Report #09

Lab PEL(PEL Laboratories, Inc.) SDG E3NY9 Case 41861 Contract EPW11034 Region 5 DDTID 136416 SOW SOM01.2

### *Tentatively Identified Compounds*

BNA Sample=E3P08DL Location=SD-04 Matrix=Soil Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
	Unknown_1	9.834150	3500	ug/Kg	DJ
949-41-7	1H-Cyclopropa[1]phenanthren_2	11.12317	3200	ug/Kg	DNJ
	Unknown_3	11.22480	5200	ug/Kg	DJ
200-23-7	Benzo[k]xanthene_4	12.35872	3200	ug/Kg	DNJ
3442-78-2	Pyrene, 2-methyl-_5	12.49777	4600	ug/Kg	DNJ
2381-21-7	Pyrene, 1-methyl-_6	12.62615	12000	ug/Kg	DNJ
243-17-4	11H-Benzo[b]fluorene_7	12.70102	10000	ug/Kg	DNJ
	Unknown_8	12.75452	3600	ug/Kg	DJ
	Unknown_9	13.61563	2700	ug/Kg	DJ

**National Functional Guidelines Report #09**

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Lab PEL(PEL Laboratories, Inc.) SDG E3NY9 Case 41861 Contract EPW11034 Region 5 DDTID 136416 SOW SOM01.2

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***Tentatively Identified Compounds***

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BNA Sample=SBLK4H Location= Matrix=Soil Level=Low

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CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
	Unknown_1	7.593217	140	ug/Kg	J
7683-64-9	Squalene_2	14.80318	77	ug/Kg	NJ

# Edit History Report

Case No: 41861

Contract: EPW11034

SDG No: E3NY9

Lab Code: PEL

Method: BNA

Sample	Matrix	Analyte Name	Data Field	Old Value	New Value	User	Edit Date Time	Global
SBLK4H	Soil	2,4-Dinitrophenol	Validation Flag	UJ	U	Steffanie Tobin	12/1/11 1:36 PM	
SBLK4H	Soil	4,6-Dinitro-2-methylphenol	Validation Flag	UJ	U	Steffanie Tobin	12/1/11 1:36 PM	
SBLK4H	Soil	Hexachlorocyclopentadiene	Validation Flag	UJ	U	Steffanie Tobin	12/1/11 1:36 PM	



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

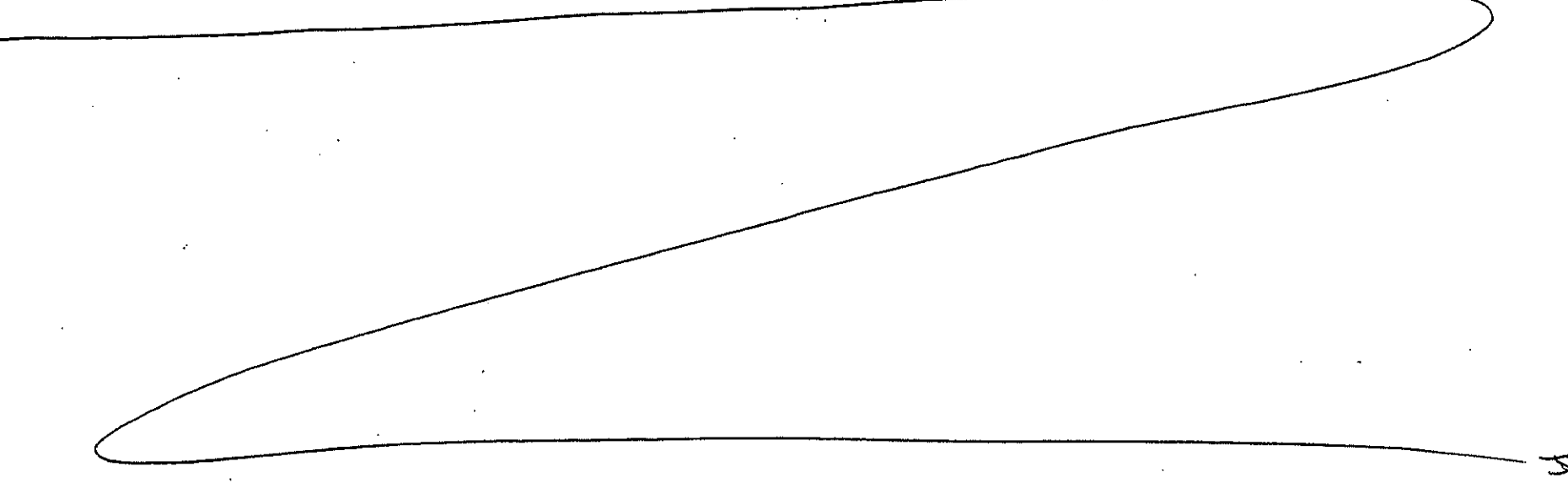
3504259  
NY

Case No: 41861  
DAS No:  
SDG No: E3NY9

L 01

Date Shipped: 10/13/11 Carrier Name: UPS Airbill: 1Z-549-OW4-22-1008-2387 Shipped to: Spectrum Analytical, Inc. DBA: PEL Laboratories 8405 Benjamin Road Suite A Tampa FL 33634 (813) 888-9507	<b>Chain of Custody Record</b>		<b>Sampler Signature:</b> <i>John Spielberg</i>	<b>For Lab Use Only</b>	
	Relinquished By (Date / Time)		Received By (Date / Time)	Lab Contract No: EP-W-11-034	Unit Price: \$ 256.00
	1	<i>John Spielberg, 10/13/11, 1608 PM</i>	<i>10-14-11 935</i>	Transfer To: —	Lab Contract No: —
	2.	—	—	Unit Price: —	—
	3.	—	—	—	—
4.	—	—	—	—	

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
E3NY9	Surface Soil (0"-12")/ John Spielberg	L/G	BN/PestPCB (21)	5-1043 (Ice Only) (1)	SS-19	10/11/11 1410	ME3NY9	-01 Good
E3NZ0	Surface Soil (0"-12")/ John Spielberg	L/G	BN/PestPCB (21)	5-1045 (Ice Only) (1)	SS-20	1337	ME3NZ0	-02 Good



Shipment for Case Complete? <input type="checkbox"/> N	Sample(s) to be used for laboratory QC: E3NY3	Additional Sampler Signature(s): <i>John Spielberg</i>	Cooler Temperature Upon Receipt: 2.4 C	Chain of Custody Seal Number: 89253, 89254
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"/>

BN/PestPCB = CLP Semivolatiles/Pesticide/PCB - soi

TR Number: 5-264186997-100811-0007

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Send Copy to: Sample Management Office, 15000 Conference Center Dr., Chantilly, VA. 20151-3819 Phone 703/818-4200; Fax 703/818-4602



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

Case No: 41861  
DAS No:  
SDG No: E3N49

02

Date Shipped: 10/13/11 Carrier Name: UPS Airbill: 1Z-549-OW4-22-1008-2396 Shipped to: Spectrum Analytical, Inc. DBA: PEL Laboratories 8405 Benjamin Road Suite A Tampa FL 33634 (813) 888-9507	<b>Chain of Custody Record</b>		Sampler Signature: <i>John Spielberg</i>	<b>For Lab Use Only</b> Lab Contract No: EP-W-11-034 Unit Price: \$256.00 Transfer To: _____ Lab Contract No: _____ Unit Price: _____	
	Relinquished By	(Date / Time)	Received By		(Date / Time)
	1. <i>John Spielberg</i>	<i>10/13/11, 1600</i>	<i>John Spielberg</i>		<i>10-14-11 935</i>
	2. _____	_____	_____		_____
	3. _____	_____	_____		_____
4. _____	_____	_____	_____		

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
E3NZ1	Subsurface Soil (>12")/ John Spielberg	L/G	BN/PestPCB (21)	5-1047 (Ice Only) (1)	SB-01	10/10/11, 1701	ME3NZ1	-03 Good
E3NZ2	Subsurface Soil (>12")/ John Spielberg	L/G	BN/PestPCB (21)	5-1049 (Ice Only) (1)	SB-02	1610	ME3NZ2	-04 Good
E3NZ3	Subsurface Soil (>12")/ John Spielberg	L/G	BN/PestPCB (21)	5-1051 (Ice Only) (1)	SB-04D	1812	ME3NZ3	-05 Good
E3NZ4	Subsurface Soil (>12")/ John Spielberg	L/G	BN/PestPCB (21)	5-1053 (Ice Only) (1)	SB-03	1600	ME3NZ4	-06 Good
E3NZ5	Subsurface Soil (>12")/ John Spielberg	L/G	BN/PestPCB (21)	5-1055 (Ice Only) (1)	SB-04	1812	ME3NZ5	-07 Good
E3NZ6	Subsurface Soil (>12")/ John Spielberg	L/G	BN/PestPCB (21)	5-1057 (Ice Only) (1)	SB-05	1840	ME3NZ6	-08 Good
E3NZ7	Subsurface Soil (>12")/ John Spielberg	L/G	BN/PestPCB (21)	5-1059 (Ice Only) (1)	SB-06	10/11/11 930	ME3NZ7	-09 Good
E3NZ8	Subsurface Soil (>12")/ John Spielberg	L/G	BN/PestPCB (21)	5-1061 (Ice Only) (1)	SB-07	1015	ME3NZ8	-10 Good
E3NZ9	Subsurface Soil (>12")/ John Spielberg	L/G	BN/PestPCB (21)	5-1063 (Ice Only) (1)	SB-08	1455	ME3NZ9	-11 Good
E3P00	Subsurface Soil (>12")/ John Spielberg	L/G	BN/PestPCB (21)	5-1065 (Ice Only) (1)	SB-09	1408	ME3P00	-12 Good

Shipment for Case Complete? <input type="checkbox"/> N	Sample(s) to be used for laboratory QC: E3P08	Additional Sampler Signature(s): <i>John Spielberg</i>	Cooler Temperature Upon Receipt: 3.2C	Chain of Custody Seal Number: 89255, 89256
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"/>
BN/PestPCB = CLP Semivolatiles/Pesticide/PCB - soi				

TR Number: 5-264186997-100811-0008

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

3504259  
N

Case No: 41861  
DAS No:  
SDG No: E3N49

02

Date Shipped: 10/13/11 Carrier Name: UPS Airbill: 1Z-549-OW4-22-1008-2396 Shipped to: Spectrum Analytical, Inc. DBA: PEL Laboratories 8405 Benjamin Road Suite A Tampa FL 33634 (813) 888-9507	<b>Chain of Custody Record</b>		Sampler Signature: <i>John Spielberg</i>		<b>For Lab Use Only</b> Lab Contract No: EP-W-11-034 Unit Price: \$ 256.00 Transfer To: _____ Lab Contract No: _____ Unit Price: _____
	Relinquished By (Date / Time)		Received By (Date / Time)		
	1. <i>John Spielberg</i>	<i>10/13/11, 1600 hrs</i>	<i>John Spielberg</i>	<i>10-14-11 935</i>	
	2. _____	_____	_____	_____	
3. _____	_____	_____	_____		
4. _____	_____	_____	_____		

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
E3P01	Subsurface Soil (>12")/ John Spielberg	L/G	BN/PestPCB (21)	5-1067 (Ice Only) (1)	SB-10	10/11/11, 1148	ME3P01	-13 Good
E3P02	Subsurface Soil (>12")/ John Spielberg	L/G	BN/PestPCB (21)	5-1069 (Ice Only) (1)	SB-11	}	ME3P02	-14 Good
E3P03	Subsurface Soil (>12")/ John Spielberg	L/G	BN/PestPCB (21)	5-1071 (Ice Only) (1)	SB-12		ME3P03	-15 Good
E3P04	Sediment/ John Spielberg	L/G	BN/PestPCB (21)	5-1073 (Ice Only) (1)	SD-01		10/12/11 1330	ME3P04
E3P05	Sediment/ John Spielberg	L/G	BN/PestPCB (21)	5-1075 (Ice Only) (1)	SD-02	}	ME3P05	-17 Good
E3P06	Sediment/ John Spielberg	L/G	BN/PestPCB (21)	5-1077 (Ice Only) (1)	SD-03		ME3P06	-18 Good
E3P07	Sediment/ John Spielberg	L/G	BN/PestPCB (21)	5-1079 (Ice Only) (1)	SD-03D		ME3P07	-19 Good
E3P08	Sediment/ John Spielberg	L/G	BN/PestPCB (21)	5-1081 (Ice Only), 5-1082 (Ice Only) (2)	SD-04		ME3P08	-20-21-22 Good
E3P09	Sediment/ John Spielberg	L/G	BN/PestPCB (21)	5-1085 (Ice Only) (1)	SD-05		ME3P09	
E3P33				5-1241 (ice)	SB-13	10/11 1053		
E3P34				5-1243 (ice)	SB-14	10/11 1803		

SDG Final Sample

Shipment for Case Complete? <input type="checkbox"/>	Sample(s) to be used for laboratory QC: E3P08	Additional Sampler Signature(s): <i>John Spielberg</i>	Cooler Temperature Upon Receipt: 3.2C	Chain of Custody Seal Number: 89255, 89256
Analysis Key: BN/PestPCB = CLP Semivolatiles/Pesticide/PCB - soi	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: 5-264186997-100811-0008

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Send Copy to: Sample Management Office, 15000 Conference Center Dr., Chantilly, VA. 20151-3819 Phone 703/818-4200; Fax 703/818-4602



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION V  
SUPERFUND DIVISION

DATE:

SUBJECT: Review of Data  
Received for Review on: Nov 4, 2011

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

TO: Data User: MDEQ  
Email Address: [walczakj@michigan.gov](mailto:walczakj@michigan.gov)

Level 3 Data Validation

We have reviewed the data for the following case:

SITE Name C & H Linden Operation (MI)

Case Number: 41861

SDG Number: E3P09

Number and Type of Samples: 3 Water Samples (SVOA, Aroclors)

Sample Numbers: E3P09, E3P33, E3P34

Laboratory: PEL Laboratories

Hrs for Review:

Following are our findings:

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

Case Number: 41861  
Site Name: C&H Lake Linden Operations (MI)

Page 2 of 7  
SDG Number: E3P09  
Laboratory: PEL Laboratories

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

Three (3) soil samples labeled E3P09, E3P33, and E3P34, were shipped to PEL Laboratories located in Tampa, FL. Two (2) samples; E3P33 and E3P34, were collected on October 11, 2011 and one (1) sample E3P09 was collected on October 12, 2011. All samples were received on October 14, 2011 intact and properly cooled.

All samples were analyzed according to CLP SOW SOM01.2 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).

Sample E3P34 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

The following semivolatile soil samples are outside primary extraction holding time criteria. Detected compounds are qualified "J". Non-detected compounds are qualified "UJ".

E3P09

## 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".

E3P33, E3P34, E3P34MS, E3P34MSD  
2,4-Dinitrophenol, 4,6-Dinitro-2-methylphenol, Pyrene

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.

E3P33, E3P34, E3P34MS, E3P34MSD  
4,6-Dinitro-2-methylphenol-d2, Pyrene-d10

## 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 TIC report.

Unknown @ RT 7.7  
E3P33, E3P34

## 5. DEUTERATED MONITORING COMPOUND AND SURROGATE RECOVERY

The following semivolatile samples have deuterated monitoring compound recovery below the lower limit of the criteria window. The compounds were not detected in the sample. Non-detected compounds are qualified "UJ".

SBLK4J  
Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene,  
Dibenzo(a,h)anthracene, Benzo(g,h,i)perylene

**6A. MATRIX SPIKE/MATRIX SPIKE DUPLICATE**

Sample E3P34 was designated by the samplers to be used for laboratory QC, i.e. matrix spike / matrix spike duplicate analyses.

No Problems Found.

**6B. LABORATORY CONTROL SAMPLE**

No Problems Found.

**7. FIELD BLANK AND FIELD DUPLICATE**

No sample was identified as a field blank.  
No samples were identified as a field duplicates.

**8. INTERNAL STANDARDS**

No Problems Found.

**9. COMPOUND IDENTIFICATION**

After reviewing the mass spectra and chromatograms it appears that all SV 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".

E3P09  
Acetophenone, Naphthalene

E3P34  
Chrysene

E3P34MS, E3P34MSD  
Phenanthrene, Fluoranthene, Chrysene

Percent moisture content of the following semivolatile soil samples exceeds primary criteria. Detected compounds are qualified "J". Non-detected compounds are qualified "UJ".

E3P09

A library search indicates a match at or above 85% for a TIC compound in the semivolatile

Case Number: 41861  
 Site Name: C&H Lake Linden Operations (MI)

SDG Number: E3P09  
 Laboratory: PEL Laboratories

sample. Detected compounds are qualified "NJ".

CAS No. 57-10-3 n-Hexadecanoic acid;  
 CAS No. 575-43-9 Naphthalene, 1,6-dimethyl-;  
 CAS No. 581-40-8 Naphthalene, 2,3-dimethyl-;  
 CAS No. 582-16-1 Naphthalene 2,7-dimethyl-;  
 CAS No. 829-26-5 Naphthalene, 2,3,6-trimethyl-;  
 CAS No. 2531-84-2 Phenanthrene, 2-methyl-;  
 CAS No. 7320-53-8 Dibenzofuran, 4-methyl-  
 E3P09

CAS No. 65-85-0 Benzoic acid  
 E3P09, E3P33

CAS No. 90-12-0 1-Methylnaphthalene  
 E3P09, E3P34

CAS No. 1617-70-5 Lup-20(29)-en-3-one;  
 CAS No. 58801-23-3 Hop-22(29)-en-3.beta.-ol  
 E3P34

CAS No. 7683-64-9 Squalene  
 E3P33

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

Unknown @ RT 7.7  
 SBLK4F

Unknown @ RT 7.96;	Unknown @ RT 7.98;	Unknown @ RT 8.05;
Unknown @ RT 8.76;	Unknown @ RT 8.90;	Unknown @ RT 18.70;
Unknown @ RT 19.02		

E3P34

Unknown @ RT 10.21;	Unknown @ RT 11.36;	Unknown @ RT 11.84;
Unknown @ RT 12.61;	Unknown @ RT 13.93;	Unknown @ RT 14.31

E3P09

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

ALCS4E  
 Aroclor-1016, Aroclor-1260

Case Number: 41861  
Site Name: C&H Lake Linden Operations (MI)

SDG Number: E3P09  
Laboratory: PEL Laboratories

Percent moisture content of the following aroclor soil samples exceeds primary criteria. Detected compounds are qualified "J". Non-detected compounds are qualified "UJ".

E3P09

## 11. SYSTEM PERFORMANCE

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

## 12. ADDITIONAL INFORMATION

The following TICs were determined to be alkanes by the Reviewer and removed from the Form Is and NFG Report #9 (TICs). The values were qualified non-reportable in the Sample Summary Report. Photocopies of the GC scans are included with this report.

E3P09

CAS No. 630-02-4 n-octacasane (C28) @ RT 12.728

CAS No. 7098-22-8 Tetratetracontane @ RT 13.552

Unknown @ RT 14.825

SBLK4J

CAS No. 111-02-4 2,6,10,18,22-Tetracosahexane @ RT 14.825

LCS samples are not included in the Sample Summary Report.

CADRE Data Qualifier Sheet

Qualifiers

Data Qualifier Definitions

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:	41861	Contract:	EPW11034	SDG No:	E3P09	Lab Code:	PEL
Sample Number:	ABLK4E	Method:	Aroclor	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:		pH:	1.8	Sample Date:		Sample Time:	
% Moisture :	0			% 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:	41861	Contract:	EPW11034	SDG No:	E3P09	Lab Code:	PEL
Sample Number:	E3P09	Method:	BNA	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:	SD-05	pH:	5.9	Sample Date:	10122011	Sample Time:	16:15:00
% Moisture :	71			% Solids :	29		

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	590	ug/Kg	1.0	U	UJ	Yes	
Phenol	590	ug/Kg	1.0	U	UJ	Yes	
Bis(2-chloroethyl)ether	590	ug/Kg	1.0	U	UJ	Yes	
2-Chlorophenol	590	ug/Kg	1.0	U	UJ	Yes	
2-Methylphenol	590	ug/Kg	1.0	U	UJ	Yes	
2,2'-Oxybis(1-chloropropane)	590	ug/Kg	1.0	U	UJ	Yes	
Acetophenone	300	ug/Kg	1.0	J	J	Yes	
4-Methylphenol	590	ug/Kg	1.0	U	UJ	Yes	
N-Nitroso-di-n-propylamine	590	ug/Kg	1.0	U	UJ	Yes	
Hexachloroethane	590	ug/Kg	1.0	U	UJ	Yes	
Nitrobenzene	590	ug/Kg	1.0	U	UJ	Yes	
Isophorone	590	ug/Kg	1.0	U	UJ	Yes	
2-Nitrophenol	590	ug/Kg	1.0	U	UJ	Yes	
2,4-Dimethylphenol	590	ug/Kg	1.0	U	UJ	Yes	
Bis(2-chloroethoxy)methane	590	ug/Kg	1.0	U	UJ	Yes	
2,4-Dichlorophenol	590	ug/Kg	1.0	U	UJ	Yes	
Naphthalene	400	ug/Kg	1.0	J	J	Yes	
4-Chloroaniline	590	ug/Kg	1.0	U	UJ	Yes	
Hexachlorobutadiene	590	ug/Kg	1.0	U	UJ	Yes	
Caprolactam	590	ug/Kg	1.0	U	UJ	Yes	
4-Chloro-3-methylphenol	590	ug/Kg	1.0	U	UJ	Yes	
2-Methylnaphthalene	700	ug/Kg	1.0		J	Yes	
Hexachlorocyclopentadiene	590	ug/Kg	1.0	U	UJ	Yes	
2,4,6-Trichlorophenol	590	ug/Kg	1.0	U	UJ	Yes	
2,4,5-Trichlorophenol	590	ug/Kg	1.0	U	UJ	Yes	
1,1'-Biphenyl	590	ug/Kg	1.0	U	UJ	Yes	
2-Chloronaphthalene	590	ug/Kg	1.0	U	UJ	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
2-Nitroaniline	1100	ug/Kg	1.0	U	UJ	Yes	
Dimethylphthalate	590	ug/Kg	1.0	U	UJ	Yes	
2,6-Dinitrotoluene	590	ug/Kg	1.0	U	UJ	Yes	
Acenaphthylene	590	ug/Kg	1.0	U	UJ	Yes	
3-Nitroaniline	1100	ug/Kg	1.0	U	UJ	Yes	
Acenaphthene	590	ug/Kg	1.0	U	UJ	Yes	
2,4-Dinitrophenol	1100	ug/Kg	1.0	U	UJ	Yes	
4-Nitrophenol	1100	ug/Kg	1.0	U	UJ	Yes	
Dibenzofuran	590	ug/Kg	1.0	U	UJ	Yes	
2,4-Dinitrotoluene	590	ug/Kg	1.0	U	UJ	Yes	
Diethylphthalate	590	ug/Kg	1.0	U	UJ	Yes	
Fluorene	590	ug/Kg	1.0	U	UJ	Yes	
4-Chlorophenylphenylether	590	ug/Kg	1.0	U	UJ	Yes	
4-Nitroaniline	1100	ug/Kg	1.0	U	UJ	Yes	
4,6-Dinitro-2-methylphenol	1100	ug/Kg	1.0	U	UJ	Yes	
N-Nitrosodiphenylamine	590	ug/Kg	1.0	U	UJ	Yes	
1,2,4,5-Tetrachlorobenzene	590	ug/Kg	1.0	U	UJ	Yes	
4-Bromophenylphenylether	590	ug/Kg	1.0	U	UJ	Yes	
Hexachlorobenzene	590	ug/Kg	1.0	U	UJ	Yes	
Atrazine	590	ug/Kg	1.0	U	UJ	Yes	
Pentachlorophenol	1100	ug/Kg	1.0	U	UJ	Yes	
Phenanthrene	630	ug/Kg	1.0		J	Yes	
Anthracene	590	ug/Kg	1.0	U	UJ	Yes	
Carbazole	590	ug/Kg	1.0	U	UJ	Yes	
Di-n-butylphthalate	590	ug/Kg	1.0	U	UJ	Yes	
Fluoranthene	590	ug/Kg	1.0	U	UJ	Yes	
Pyrene	590	ug/Kg	1.0	U	UJ	Yes	
Butylbenzylphthalate	590	ug/Kg	1.0	U	UJ	Yes	
3,3'-Dichlorobenzidine	590	ug/Kg	1.0	U	UJ	Yes	
Benzo(a)anthracene	590	ug/Kg	1.0	U	UJ	Yes	
Chrysene	590	ug/Kg	1.0	U	UJ	Yes	
Bis(2-ethylhexyl)	590	ug/Kg	1.0	U	UJ	Yes	

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
phthalate	590	ug/Kg	1.0	U	UJ	Yes	
Di-n-octylphthalate	590	ug/Kg	1.0	U	UJ	Yes	
Benzo(b)fluoranthene	590	ug/Kg	1.0	U	UJ	Yes	
Benzo(k)fluoranthene	590	ug/Kg	1.0	U	UJ	Yes	
Benzo(a)pyrene	590	ug/Kg	1.0	U	UJ	Yes	
Indeno(1,2,3-cd)pyrene	590	ug/Kg	1.0	U	UJ	Yes	
Dibenzo(a,h)anthracene	590	ug/Kg	1.0	U	UJ	Yes	
Benzo(g,h,i)perylene	590	ug/Kg	1.0	U	UJ	Yes	
2,3,4,6-Tetrachlorophenol	590	ug/Kg	1.0	U	UJ	Yes	
Naphthalene, 1,6-dimethyl- 3	520		1.0	NJ		Yes	
Dibenzofuran, 4-methyl- 10	580		1.0	NJ		Yes	
1-Methylnaphthalene 2	590		1.0	NJ		Yes	
Phenanthrene, 2-methyl- 17	350		1.0	NJ		Yes	
Tetratetracontane 24	810		1.0	NJ		No	
n-Hexadecanoic acid 16	350		1.0	NJ		Yes	
Naphthalene, 2,7-dimethyl- 5	440		1.0	NJ		Yes	
Naphthalene, 2,3-dimethyl- 4	560		1.0	NJ		Yes	
Naphthalene, 2,3,6-trimethyl 7	300		1.0	NJ		Yes	
Benzoic acid_1	1200		1.0	NJ		Yes	
n-octacosane (C28)_ 22	770		1.0	NJ		No	

Case No:	41861	Contract:	EPW11034	SDG No:	E3P09	Lab Code:	PEL
Sample Number:	E3P09	Method:	Aroclor	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:	SD-05	pH:	5.9	Sample Date:	10122011	Sample Time:	16:15:00
% Moisture :	71			% Solids :	29		

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	110	ug/Kg	1.0	U	UJ	Yes	
Aroclor-1221	110	ug/Kg	1.0	U	UJ	Yes	
Aroclor-1232	110	ug/Kg	1.0	U	UJ	Yes	
Aroclor-1242	110	ug/Kg	1.0	U	UJ	Yes	
Aroclor-1248	110	ug/Kg	1.0	U	UJ	Yes	
Aroclor-1254	480	ug/Kg	1.0		J	Yes	
Aroclor-1260	410	ug/Kg	1.0		J	Yes	
Aroclor-1262	110	ug/Kg	1.0	U	UJ	Yes	
Aroclor-1268	110	ug/Kg	1.0	U	UJ	Yes	

Case No:	41861	Contract:	EPW11034	SDG No:	E3P09	Lab Code:	PEL
Sample Number:	E3P33	Method:	Aroclor	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:	SB-13	pH:	7.7	Sample Date:	10112011	Sample Time:	10:53:00
% Moisture :	11.6			% Solids :	88.4		

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:	41861	Contract:	EPW11034	SDG No:	E3P09	Lab Code:	PEL
Sample Number:	E3P33	Method:	BNA	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:	SB-13	pH:	7.7	Sample Date:	10112011	Sample Time:	10:53:00
% Moisture :	11.6			% Solids :	88.4		

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	UJ	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	UJ	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	UJ	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	
Squalene_3	130		1.0	NJ		Yes	
Benzoic acid_1	580		1.0	NJ		Yes	



Case No:	41861	Contract:	EPW11034	SDG No:	E3P09	Lab Code:	PEL
Sample Number:	E3P34	Method:	Aroclor	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:	SB-14	pH:	7.4	Sample Date:	10112011	Sample Time:	18:03:00
% Moisture :	6.1			% Solids :	93.9		

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:	41861	Contract:	EPW11034	SDG No:	E3P09	Lab Code:	PEL
Sample Number:	E3P34	Method:	BNA	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:	SB-14	pH:	7.4	Sample Date:	10112011	Sample Time:	18:03:00
% Moisture :	6.1			% Solids :	93.9		

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	UJ	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	UJ	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	180	ug/Kg	1.0	U	U	Yes	
Pyrene	180	ug/Kg	1.0	U	UJ	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	96	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	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	
1-Methylnaphthalene_2	140		1.0	NJ		Yes	
Lup-20(29)-en-3-one_8	20000		1.0	NJ		Yes	
Hop-22(29)-en-3.beta.-ol_9	2900		1.0	NJ		Yes	

Case No:	41861	Contract:	EPW11034	SDG No:	E3P09	Lab Code:	PEL
Sample Number:	E3P34MS	Method:	BNA	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:	SB-14	pH:	7.4	Sample Date:	10122011	Sample Time:	18:03:00
% Moisture :	6.1			% Solids :	93.9		

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Benzaldehyde	180	ug/Kg	1.0	U	U	Yes	
Phenol	1100	ug/Kg	1.0			Yes	
2-Chlorophenol	1100	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			Yes	
4-Chloro-3-methylphenol	1100	ug/Kg	1.0			Yes	
Acenaphthene	1000	ug/Kg	1.0			Yes	
2-Methylphenol	180	ug/Kg	1.0	U	U	Yes	
4-Nitrophenol	1400	ug/Kg	1.0			Yes	
2,2'-Oxybis(1-chloropropane)	180	ug/Kg	1.0	U	U	Yes	
Acetophenone	180	ug/Kg	1.0	U	U	Yes	
2,4-Dinitrotoluene	980	ug/Kg	1.0			Yes	
Pentachlorophenol	1100	ug/Kg	1.0			Yes	
4-Methylphenol	180	ug/Kg	1.0	U	U	Yes	
Pyrene	1300	ug/Kg	1.0		J	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	UJ	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	UJ	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	110	ug/Kg	1.0	J	J	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	94	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	96	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	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	

Case No:	41861	Contract:	EPW11034	SDG No:	E3P09	Lab Code:	PEL
Sample Number:	E3P34MS	Method:	Aroclor	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:		pH:	7.4	Sample Date:	10122011	Sample Time:	18:03:00
% Moisture :	6.1			% Solids :	93.9		

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	99	ug/Kg	1.0			Yes	
Aroclor-1221	35	ug/Kg	1.0	U	U	Yes	
Aroclor-1260	120	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:	41861	Contract:	EPW11034	SDG No:	E3P09	Lab Code:	PEL
Sample Number:	E3P34MSD	Method:	Aroclor	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:		pH:	7.4	Sample Date:	10122011	Sample Time:	18:03:00
% Moisture :	6.1			% Solids :	93.9		

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Aroclor-1016	100	ug/Kg	1.0			Yes	
Aroclor-1260	120	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:	41861	Contract:	EPW11034	SDG No:	E3P09	Lab Code:	PEL
Sample Number:	E3P34MSD	Method:	BNA	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:	SB-14	pH:	7.4	Sample Date:	10122011	Sample Time:	18:03:00
% Moisture :	6.1			% Solids :	93.9		

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Phenol	1200	ug/Kg	1.0			Yes	
Benzaldehyde	180	ug/Kg	1.0	U	U	Yes	
2-Chlorophenol	1100	ug/Kg	1.0			Yes	
N-Nitroso-di-n-propylamine	1200	ug/Kg	1.0			Yes	
Bis(2-chloroethyl)ether	180	ug/Kg	1.0	U	U	Yes	
4-Chloro-3-methylphenol	1200	ug/Kg	1.0			Yes	
2-Methylphenol	180	ug/Kg	1.0	U	U	Yes	
Acenaphthene	1100	ug/Kg	1.0			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	
4-Methylphenol	180	ug/Kg	1.0	U	U	Yes	
Pentachlorophenol	1100	ug/Kg	1.0			Yes	
Pyrene	1400	ug/Kg	1.0		J	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	UJ	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	UJ	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	130	ug/Kg	1.0	J	J	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	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	110	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	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	

Case No:	41861	Contract:	EPW11034	SDG No:	E3P09	Lab Code:	PEL
Sample Number:	SBLK4F	Method:	BNA	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:		pH:	1.8	Sample Date:		Sample Time:	
% Moisture :	0			% 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	

Case No:	41861	Contract:	EPW11034	SDG No:	E3P09	Lab Code:	PEL
Sample Number:	SBLK4J	Method:	BNA	Matrix:	Soil	MA Number:	DEFAULT
Sample Location:		pH:	1.8	Sample Date:		Sample Time:	
% Moisture :	0			% 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-Chlorophenyl-phenylether	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-Bromophenyl-phenylether	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	UJ	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	UJ	Yes	
Benzo(k)fluoranthene	170	ug/Kg	1.0	U	UJ	Yes	
Benzo(a)pyrene	170	ug/Kg	1.0	U	UJ	Yes	
Indeno(1,2,3-cd)pyrene	170	ug/Kg	1.0	U	UJ	Yes	
Dibenzo(a,h)anthracene	170	ug/Kg	1.0	U	UJ	Yes	
Benzo(g,h,i)perylene	170	ug/Kg	1.0	U	UJ	Yes	
2,3,4,6-Tetrachlorophenol	170	ug/Kg	1.0	U	U	Yes	
2,6,10,14,18,22-Tetracosane	200		1.0	NJ		No	



Data File: \\Sveed04\DD\chem\smsd04.i\S410311P.b\S4A01046.d

Date : 01-NOV-2011 04:16

Client ID: E3P09

Instrument: smsd04.i

Sample Info: SW350426101

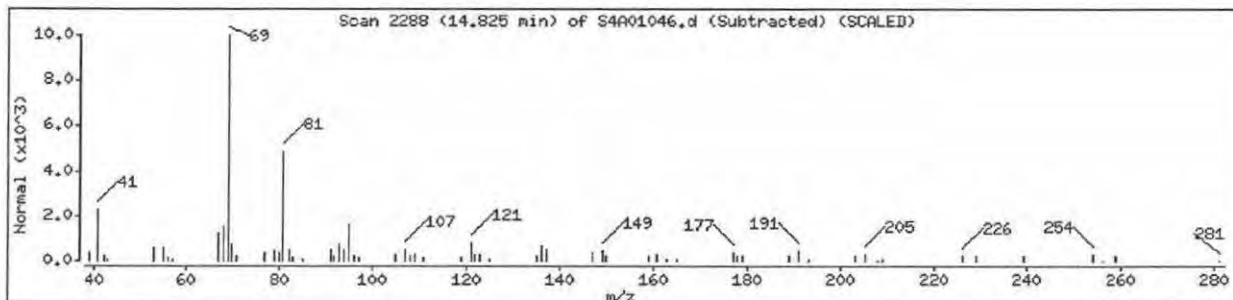
Volume Injected (uL): 1.0

Operator: PEL

Column phase: RTX-5SIL HS

Column diameter: 0,25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



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Date : 01-NOV-2011 03:24

Client ID: SBLK4J

Instrument: smsd04.i

Sample Info: SM103833MB

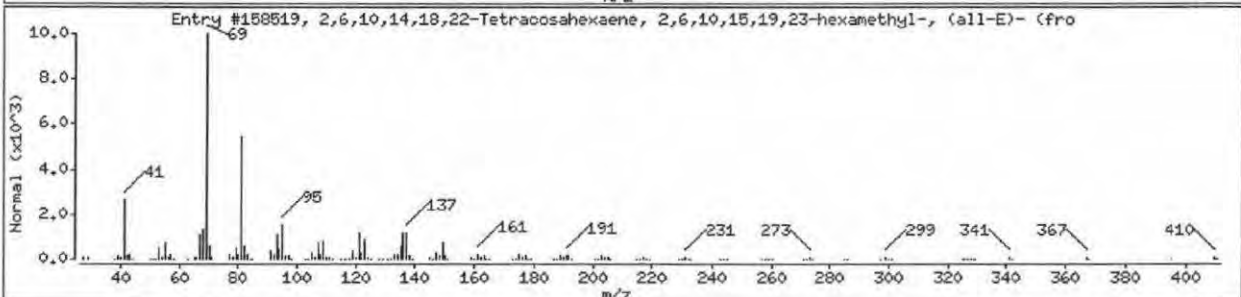
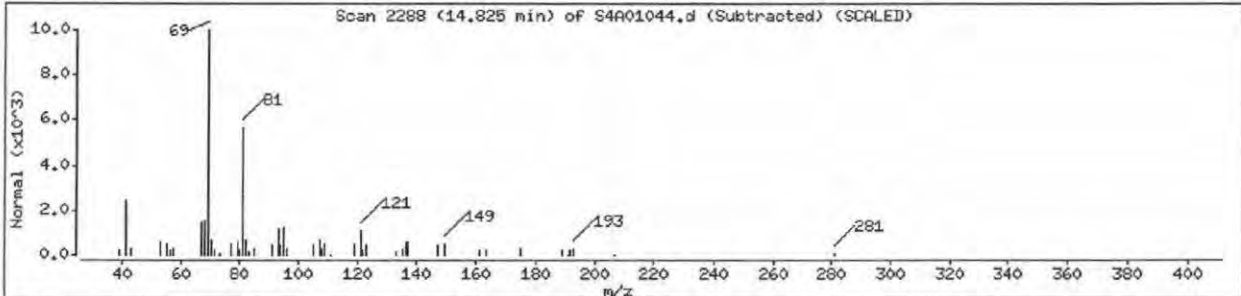
Volume Injected (uL): 1.0

Operator: PEL

Column phase: RTX-5SIL HS

Column diameter: 0,25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
2,6,10,14,18,22-Tetracosane	111-02-4	nist2002.1	158519	86	C30H50	410



Data File: \\Sveod04\DD\chem\smsd04.i\S4102511.b\S4A00849.d

Date : 25-OCT-2011 12:06

Client ID: E3P34

Instrument: smsd04.i

Sample Info: SW350426103

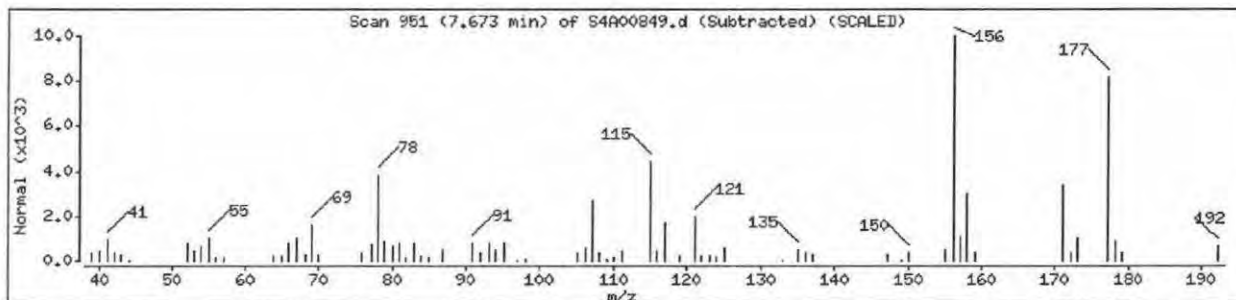
Volume Injected (uL): 1.0

Operator: PEL

Column phase: RTX-5SIL HS

Column diameter: 0,25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Data File: \\Sveod04\DD\chem\smsd04.i\S4102511.b\S4A00848.d

Date : 25-OCT-2011 11:41

Client ID: E3P33

Instrument: smsd04.i

Sample Info: SW350426102

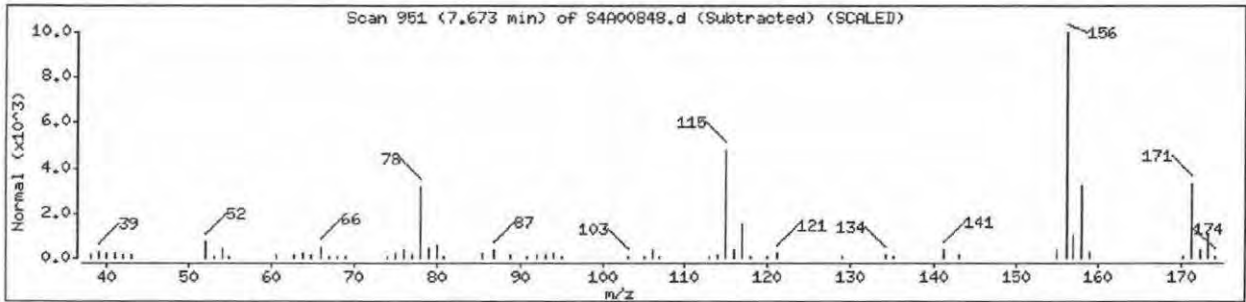
Volume Injected (uL): 1.0

Operator: PEL

Column phase: RTX-5SIL HS

Column diameter: 0,25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Data File: \\Sveod04\DD\chem\smsd04.i\S4102111.b\S4A00778.d

Date : 21-OCT-2011 11:34

Client ID: SBLK4F

Instrument: smsd04.i

Sample Info: SM102906MB

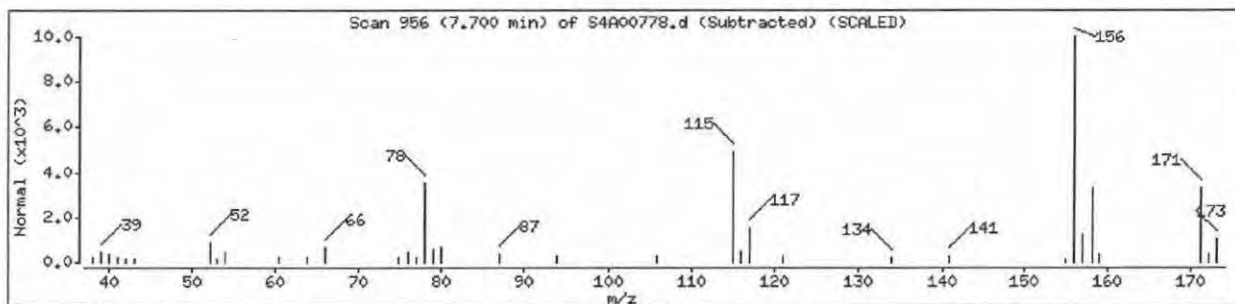
Volume Injected (uL): 1.0

Operator: PEL

Column phase: RTX-5SIL HS

Column diameter: 0,25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0





Data File: \\Sveod04\DD\chem\smsd04.i\5410311P.b\54A01046.d

Date : 01-NOV-2011 04:16

Client ID: E3P09

Instrument: smsd04.i

Sample Info: SN350426101

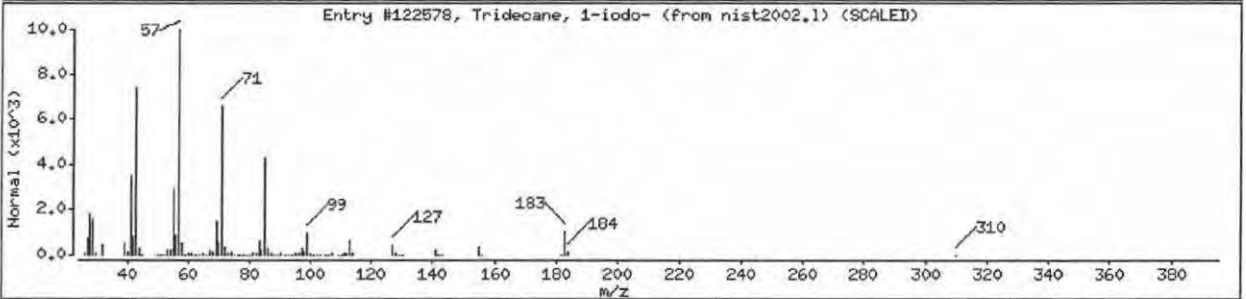
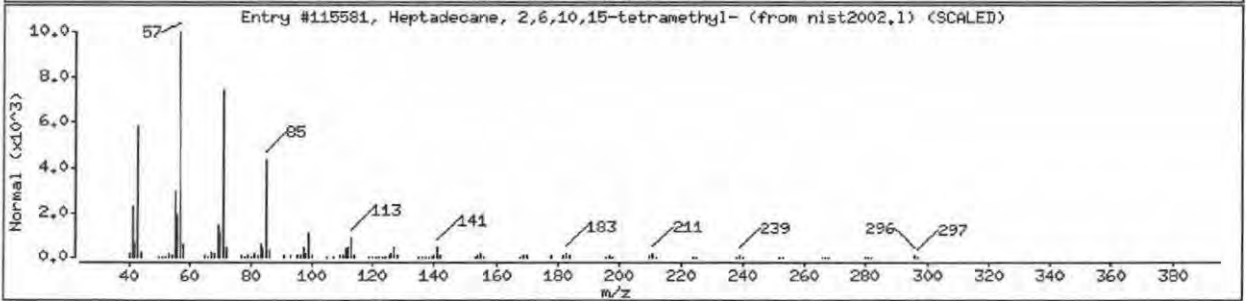
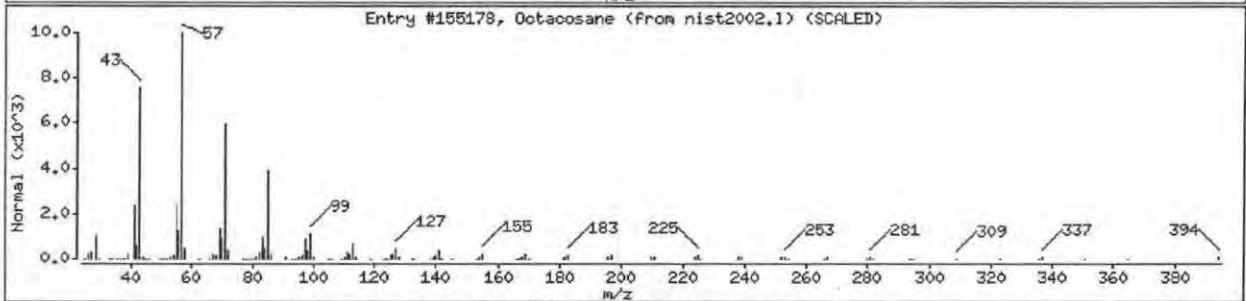
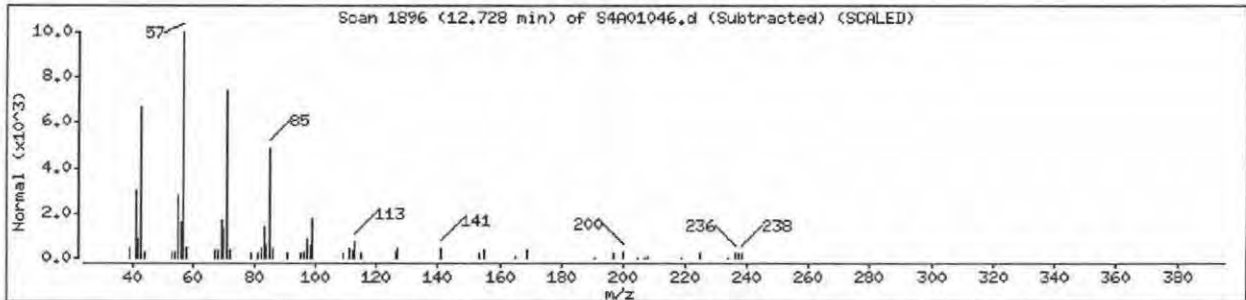
Volume Injected (uL): 1.0

Operator: PEL

Column phase: RTX-5SIL MS

Column diameter: 0,25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Octacosane	630-02-4	nist2002.1	155178	91	C28H58	394
Heptadecane, 2,6,10,15-tetramethyl-	54833-48-6	nist2002.1	115581	91	C21H44	296
Tridecane, 1-iodo-	35599-77-0	nist2002.1	122578	90	C13H27I	310



Data File: \\Sveod04\DD\chem\smsd04.i\S410311P,b\S4A01046.d

Date : 01-NOV-2011 04:16

Client ID: E3P09

Instrument: smsd04.i

Sample Info: SW350426101

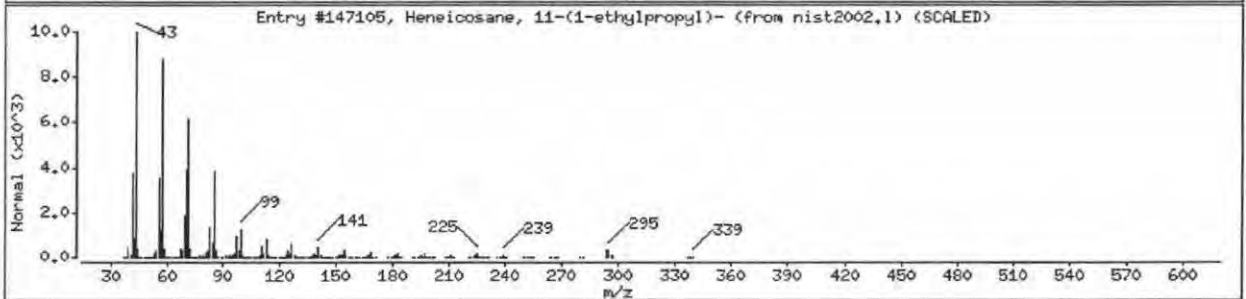
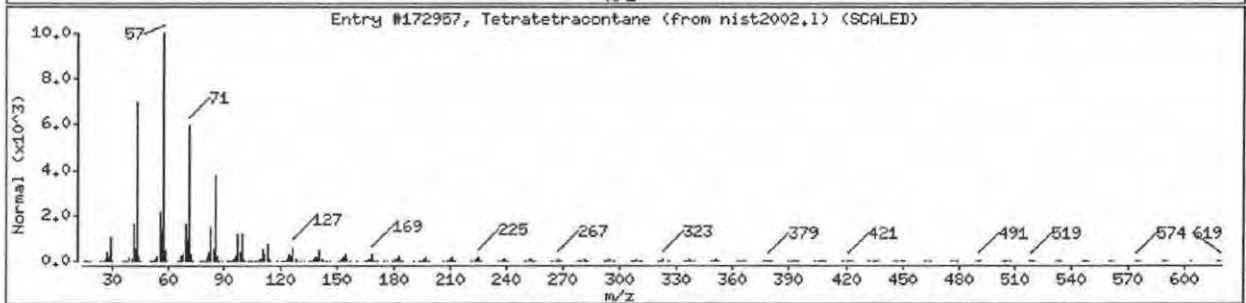
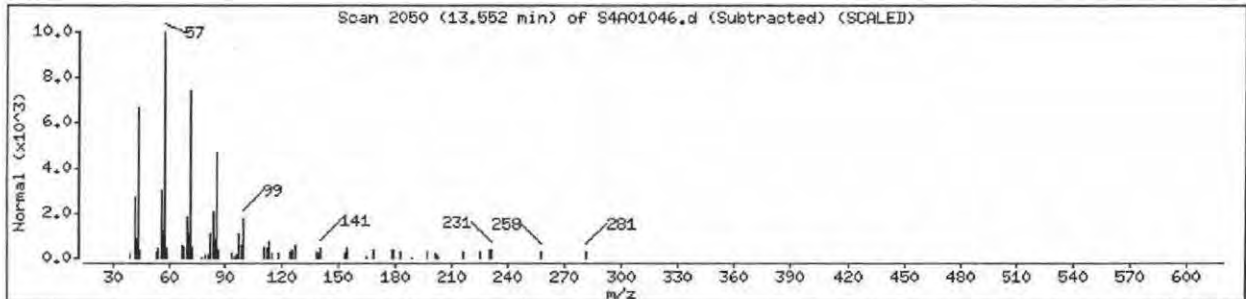
Volume Injected (uL): 1.0

Operator: PEL

Column phase: RTX-5SIL HS

Column diameter: 0,25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Tetratetracontane	7098-22-8	nist2002.1	172957	90	C44H90	619
Heneicosane, 11-(1-ethylpropyl)-	55282-11-6	nist2002.1	147105	86	C26H54	366



## National Functional Guidelines Report #09

Lab PEL(PEL Laboratories, Inc.) SDG E3P09 Case 41861 Contract EPW11034 Region 5 DDTID 136415 SOW SOM01.2

### *Tentatively Identified Compounds*

BNA Sample=E3P09 Location=SD-05 Matrix=Soil Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
65-85-0	Benzoic acid_1	6.774883	1200	ug/Kg	NJ
90-12-0	1-Methylnaphthalene_2	7.769733	590	ug/Kg	NJ
575-43-9	Naphthalene, 1,6-dimethyl-_3	8.315283	520	ug/Kg	NJ
581-40-8	Naphthalene, 2,3-dimethyl-_4	8.406217	560	ug/Kg	NJ
582-16-1	Naphthalene, 2,7-dimethyl-_5	8.427617	440	ug/Kg	NJ
829-26-5	Naphthalene, 2,3,6-trimethy_7	9.053400	300	ug/Kg	NJ
7320-53-8	Dibenzofuran, 4-methyl-_10	9.668500	580	ug/Kg	NJ
	Unknown_13	10.21405	630	ug/Kg	J
57-10-3	n-Hexadecanoic acid_16	11.17682	350	ug/Kg	NJ
2531-84-2	Phenanthrene, 2-methyl-_17	11.25168	350	ug/Kg	NJ
	Unknown_18	11.36937	570	ug/Kg	J
	Unknown_19	11.84003	620	ug/Kg	J
	Unknown_21	12.61560	580	ug/Kg	J
	Unknown_25	13.93670	570	ug/Kg	J
	Unknown_26	14.31112	780	ug/Kg	J

**National Functional Guidelines Report #09**

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Lab PEL(PEL Laboratories, Inc.) SDG E3P09 Case 41861 Contract EPW11034 Region 5 DDTID 136415 SOW SOM01.2

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***Tentatively Identified Compounds***

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BNA Sample=E3P33 Location=SB-13 Matrix=Soil Level=Low

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CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
65-85-0	Benzoic acid_1	6.828317	580	ug/Kg	NJ
7683-64-9	Squalene_3	14.88337	130	ug/Kg	NJ

## National Functional Guidelines Report #09

Lab PEL(PEL Laboratories, Inc.) SDG E3P09 Case 41861 Contract EPW11034 Region 5 DDTID 136415 SOW SOM01.2

### *Tentatively Identified Compounds*

BNA Sample=E3P34 Location=SB-14 Matrix=Soil Level=Low

CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
90-12-0	1-Methylnaphthalene_2	7.828450	140	ug/Kg	NJ
	Unknown_3	7.962167	120	ug/Kg	J
	Unknown_4	7.988917	230	ug/Kg	J
	Unknown_5	8.053100	150	ug/Kg	J
	Unknown_6	8.769817	510	ug/Kg	J
	Unknown_7	8.903533	310	ug/Kg	J
1617-70-5	Lup-20(29)-en-3-one_8	17.86785	20000	ug/Kg	NJ
58801-23-3	Hop-22(29)-en-3.beta.-ol_9	17.99622	2900	ug/Kg	NJ
	Unknown_10	18.70223	340	ug/Kg	J
	Unknown_11	19.02315	370	ug/Kg	J

**National Functional Guidelines Report #09**

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Lab PEL(PEL Laboratories, Inc.) SDG E3P09 Case 41861 Contract EPW11034 Region 5 DDTID 136415 SOW SOM01.2

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***Tentatively Identified Compounds***

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BNA Sample=SBLK4F Location= Matrix=Soil Level=Low

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CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
	Unknown_1	7.700217	80 ug/Kg		J

**National Functional Guidelines Report #09**

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Lab PEL(PEL Laboratories, Inc.) SDG E3P09 Case 41861 Contract EPW11034 Region 5 DDTID 136415 SOW SOM01.2

---

***Tentatively Identified Compounds***

---

BNA Sample=SBLK4J Location= Matrix=Soil Level=Low

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CAS No.	Compound Name	RT (mins)	Concentration		Lab Qualifier
	Unknown_1	7.614683	150 ug/Kg		J

# Edit History Report

Case No: 41861

Contract: EPW11034

SDG No: E3P09

Lab Code: PEL

Method: BNA

Sample	Matrix	Analyte Name	Data Field	Old Value	New Value	User	Edit Date Time	Global
E3P09	Soil	1-Methylnaphthalene_2	Validated Result		590	Thomas Sedlacek	12/8/11 9:49 AM	
E3P09	Soil	Benzoic acid_1	Validated Result		1200	Thomas Sedlacek	12/8/11 9:49 AM	
E3P09	Soil	Dibenzofuran, 4-methyl- 10	Validated Result		580	Thomas Sedlacek	12/8/11 9:49 AM	
E3P09	Soil	Naphthalene, 1,6-dimethyl- 3	Validated Result		520	Thomas Sedlacek	12/8/11 9:49 AM	
E3P09	Soil	Naphthalene, 2,3,6-trimethyl- 7	Validated Result		300	Thomas Sedlacek	12/8/11 9:49 AM	
E3P09	Soil	Naphthalene, 2,3-dimethyl- 4	Validated Result		560	Thomas Sedlacek	12/8/11 9:49 AM	
E3P09	Soil	Naphthalene, 2,7-dimethyl- 5	Validated Result		440	Thomas Sedlacek	12/8/11 9:49 AM	
E3P09	Soil	Phenanthrene, 2-methyl- 17	Validated Result		350	Thomas Sedlacek	12/8/11 9:49 AM	
E3P09	Soil	Tetratetracontane_24	Reportable	Y	N	Allison Harvey	12/15/11 11:23 AM	
E3P09	Soil	Tetratetracontane_24	Validated Result		810	Thomas Sedlacek	12/8/11 9:49 AM	
E3P09	Soil	n-Hexadecanoic acid_16	Validated Result		350	Thomas Sedlacek	12/8/11 9:49 AM	
E3P09	Soil	n-octacosane (C28)_22	Reportable	Y	N	Allison Harvey	12/15/11 11:23 AM	
E3P09	Soil	n-octacosane (C28)_22	Validated Result		770	Thomas Sedlacek	12/8/11 9:49 AM	
E3P33	Soil	4,6-Dinitro-2-methylphenol	Validation Flag	U	UJ	Allison Harvey	12/15/11 11:25 AM	
E3P33	Soil	Benzoic acid_1	Validated Result		580	Thomas Sedlacek	12/8/11 9:50 AM	
E3P33	Soil	Pyrene	Validation Flag	U	UJ	Allison Harvey	12/15/11 11:25 AM	
E3P33	Soil	Squalene_3	Validated Result		130	Thomas Sedlacek	12/8/11 9:50 AM	
E3P34	Soil	1-Methylnaphthalene_2	Validated Result		140	Thomas Sedlacek	12/8/11 9:51 AM	
E3P34	Soil	4,6-Dinitro-2-methylphenol	Validation Flag	U	UJ	Allison Harvey	12/15/11 11:26 AM	
E3P34	Soil	Hop-22(29)-en-3.beta.-ol_9	Validated Result		2900	Thomas Sedlacek	12/8/11 9:51 AM	
E3P34	Soil	Lup-20(29)-en-3-one_8	Validated Result		20000	Thomas Sedlacek	12/8/11 9:51 AM	
E3P34	Soil	Pyrene	Validation Flag	U	UJ	Allison Harvey	12/15/11 11:26 AM	
E3P34MS	Soil	4,6-Dinitro-2-methylphenol	Validation Flag	U	UJ	Allison Harvey	12/15/11 11:27 AM	
E3P34MS	Soil	Pyrene	Validation Flag		J	Allison Harvey	12/15/11 11:27 AM	
E3P34MSD	Soil	4,6-Dinitro-2-methylphenol	Validation Flag	U	UJ	Allison Harvey	12/15/11 11:29 AM	
E3P34MSD	Soil	Pyrene	Validation Flag		J	Allison Harvey	12/15/11 11:29 AM	
SBLK4J	Soil	2,6,10,14,18,22-Tetracosane_2	Reportable	Y	N	Allison Harvey	12/15/11 11:30 AM	
SBLK4J	Soil	2,6,10,14,18,22-Tetracosane_2	Validated Result		200	Thomas Sedlacek	12/8/11 9:57 AM	





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

3504261  
18

Case No:	41861
DAS No:	
SDG No:	E3P09
<b>L</b>	
For Lab Use Only	
Lab Contract No:	EP-W-11-034
Unit Price:	\$ 256.00
Transfer To:	---
Lab Contract No:	---
Unit Price:	---

02

Date Shipped:	10/13/11	Chain of Custody Record		Sampler Signature:	John Spielberg
Carrier Name:	UPS	Relinquished By	(Date / Time)	Received By	(Date / Time)
Airbill:	1Z-549-OW4-22-1008-2396	1	John Spielberg 10/13/11 1600	10/14/11 935	
Shipped to:	Spectrum Analytical, Inc. DBA: PEL Laboratories 8405 Benjamin Road Suite A Tampa FL 33634 (813) 888-9507	2.	---	---	
		3.	---	---	
		4.	---	---	

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	
E3P01	Subsurface Soil (>12")/ John Spielberg	L/G	BN/PestPCB (21)	5-1067 (Ice Only) (1)	SB-10	10/11/11, 1148	ME3P01		
E3P02	Subsurface Soil (>12")/ John Spielberg	L/G	BN/PestPCB (21)	5-1069 (Ice Only) (1)	SB-11	}	ME3P02		
E3P03	Subsurface Soil (>12")/ John Spielberg	L/G	BN/PestPCB (21)	5-1071 (Ice Only) (1)	SB-12		1704	ME3P03	
E3P04	Sediment/ John Spielberg	L/G	BN/PestPCB (21)	5-1073 (Ice Only) (1)	SD-01		10/12/11 1330	ME3P04	
E3P05	Sediment/ John Spielberg	L/G	BN/PestPCB (21)	5-1075 (Ice Only) (1)	SD-02	}	1840	ME3P05	
E3P06	Sediment/ John Spielberg	L/G	BN/PestPCB (21)	5-1077 (Ice Only) (1)	SD-03		1415	ME3P06	
E3P07	Sediment/ John Spielberg	L/G	BN/PestPCB (21)	5-1079 (Ice Only) (1)	SD-03D		1415	ME3P07	
E3P08	Sediment/ John Spielberg	L/G	BN/PestPCB (21)	5-1081 (Ice Only), 5-1082 (Ice Only) (2)	SD-04		1515	ME3P08	
E3P09	Sediment/ John Spielberg	L/G	BN/PestPCB (21)	5-1085 (Ice Only) (1)	SD-05		1615	ME3P09	-01 Good
E3P33				5-1241 (ice)	SB-13	10/11 1053		-02 Good	
E3P34				5-1243 (ice)	SB-14	10/11 1803		-03 -04 -05 Good	

Shipment for Case Complete? <input type="checkbox"/>	Sample(s) to be used for laboratory QC: E3P08	Additional Sampler Signature(s): John Spielberg	Cooler Temperature Upon Receipt: 3.2C	Chain of Custody Seal Number: 89255, 89256
Analysis Key: BN/PestPCB = CLP Semivolatiles/Pesticide/PCB - soi	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: 5-264186997-100811-0008

PR provides preliminary results. Requests for preliminary results will increase analytical costs.  
Send Copy to: Sample Management Office, 15000 Conference Center Dr., Chantilly, VA. 20151-3819 Phone 703/818-4200; Fax 703/818-4602

**LABORATORY COPY**

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION V  
SUPERFUND DIVISION

DATE:

SUBJECT: Review of Data  
Received for Review on: November 4, 2011

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

TO: Data User: MDEQ  
Email address: [walczakj@michigan.gov](mailto:walczakj@michigan.gov)

**Level 3 Data Validation**

We have reviewed the data for the following case:

Site Name: C & H Lake Linden Operations (MI)

Case Number: 41861

SDG Number: E3P14

Number and Type of Samples: 20 Waters (low/med VOA, SVOA, Aroclor)

Sample Numbers: E3P10 – E3P24, E3P26 – E3P28, E3P31, E3P32

Laboratory: PEL Laboratories (Spectrum Analytical)

Hrs for Review: \_\_\_\_\_

Following are our findings:

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

Case Number: 41861  
Site Name: C&H Linden Operations (MI)

Page 2 of 12  
SDG Number: E3P14  
Laboratory: PEL - Spectrum

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

Twenty (20) preserved water samples; E3P10 thru E3P24, E3P26 thru E3P28, E3P31, and E3P32, were collected on October 11 and 12, 2011. The samples were received by PEL Laboratories located in Tampa, FL between October 12 and 14, 2011 intact and at the proper shipping temperature range of 2 - 6°C.

All samples were analyzed for the low/med VOA, SVOA, and Aroclor target 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).

Sample E3P16 was designated by the samplers to be used for laboratory QC, i.e. MS / MSD analyses.

No samples were identified as trip blanks. Samples E3P27 and E3P28 were identified as field blanks. Samples E3P31 and E3P32 were identified as an undetermined type of field QC blank. Sample E3P15 was identified as a field duplicate of sample E3P14. Sample E3P24 was identified as a field duplicate of sample E3P23.

### 1. HOLDING TIME

The following semivolatile water sample is outside primary extraction holding time criteria (7 days). No compounds were detected in the sample. Non-detected compounds are qualified "UJ".

E3P26

### 2. GC/MS TUNING AND GC INSTRUMENT PERFORMANCE

No problems were found.

### 3. CALIBRATION

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

E3P14, E3P15, VBLK6I  
Bromomethane

The following volatile samples are associated with an initial calibration and opening/closing CCVs with relative response factors (RRFs) outside criteria. Detected 1,4-Dioxane in sample VBLK6M is qualified "J". Non-detected compounds are qualified "R".

E3P10, E3P11, E3P12, E3P13, E3P14, E3P15, E3P16, E3P16MS, E3P16MSD,  
E3P17, E3P18, E3P19, E3P20, E3P21, E3P22, E3P23, E3P24, E3P26, E3P27,  
E3P28, E3P31, E3P32, VBLK6I, VBLK6J, VBLK6K, VBLK6L, VBLK6M,  
VHBLK6S  
1,4-Dioxane

The following volatile samples are associated with an initial calibration and opening/closing CCVs in which a DMC did not meet relative response factor (RRF) criteria. Detected and non-detected compounds are not qualified.

E3P10, E3P11, E3P12, E3P13, E3P14, E3P15, E3P16, E3P16MS, E3P16MSD,  
E3P17, E3P18, E3P19, E3P20, E3P21, E3P22, E3P23, E3P24, E3P26, E3P27,  
E3P28, E3P31, E3P32, VBLK6I, VBLK6J, VBLK6K, VBLK6L, VBLK6M,  
VHBLK6S  
1,4-Dioxane-d8

#### 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.

Acetone

E3P11, E3P13, E3P22, E3P23, E3P24, E3P27, E3P31, VHBLK6S

Methylene chloride

E3P10, E3P11, E3P12, E3P13, E3P14, E3P15, E3P16, E3P16MS, E3P16MSD, E3P17, E3P18, E3P19, E3P20, E3P21, E3P22, E3P23, E3P24, E3P26, E3P27, E3P28, E3P31, E3P32, VHBLK6S

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

Chloromethane

E3P17, VHBLK6S

Carbon disulfide

E3P14

Toluene

E3P22, VHBLK6S

Styrene

E3P22

1,3-Dichlorobenzene

E3P14, E3P16, E3P16MS, E3P17, E3P20, E3P21, E3P22

1,2,4-Trichlorobenzene

E3P14, E3P15, E3P16, E3P20, E3P21

1,2,3-Trichlorobenzene

E3P15, E3P16, E3P17, E3P18, E3P20, E3P21, E3P22

The following semivolatile samples have TIC concentrations reported less than 5X the associated method blank (SBLK4C) concentration. Detected compounds are re-qualified "U" and deleted from the TIC report.

CAS No. 7683-64-9 – Squalene  
E3P26

The following semivolatile samples have common contaminant concentrations reported less than 5x the CRQL. The associated field blank (E3P27) concentration is less than 5x the concentration criteria. Detected compounds are qualified “U”. Non-detected compounds are not qualified. Reported sample concentrations have been elevated to the 5x the CRQL.

bis(2-Ethylhexyl)phthalate  
E3P16MS

The following semivolatile samples have TIC concentrations reported less than 5X the associated field blank (E3P28) concentration. Detected compounds are re-qualified “U” and deleted from the TIC report.

Unknown @ 7.71  
E3P21, E3P23

The following semivolatile samples have analyte concentrations reported less than the CRQL. The associated field QC blank (E3P32) concentration is less than the concentration criteria. Detected compounds are qualified “U”. Non-detected compounds are not qualified. Reported sample concentrations have been elevated to the CRQL.

Diethylphthalate  
E3P20, E3P21, E3P23, E3P24

## **5. DEUTERATED MONITORING COMPOUND AND SURROGATE RECOVERY**

The following volatile samples have DMC/SMC recoveries above the upper limit of the criteria window. The compounds were not detected in the sample. Non-detected compounds are not qualified.

E3P22  
Cyclohexane, Benzene, Trichloroethene, Methylcyclohexane, 1,2-Dichloropropane, Bromodichloromethane, Toluene, Tetrachloroethene, Chlorobenzene, Ethylbenzene, o-Xylene, m,p-Xylene, Styrene, Isopropylbenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1,2-Dichlorobenzene, 1,2,4-Trichlorobenzene, 1,2,3-Trichlorobenzene

The following volatile samples have one or more DMC/SMC recovery values less than the primary lower limit but greater than or equal to the expanded lower limit of the criteria window. The compounds were not detected in the sample. Non-detected compounds are qualified “UJ”.

E3P28

Acetone, 2-Butanone, cis-1,3-Dichloropropene, trans-1,3-Dichloropropene,  
1,1,2-Trichloroethane

The following semivolatile samples have one or more DMC/SMC recovery values less than the primary lower limit but greater than or equal to the expanded lower limit of the criteria window. The compounds were not detected in the samples. Non-detected compounds are qualified "UJ".

E3P17, E3P26

Hexachlorobenzene, Atrazine, Phenanthrene, Anthracene

E3P10, E3P13

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

#### **6A. MATRIX SPIKE/MATRIX SPIKE DUPLICATE**

Sample E3P16 was designated by the samplers to be used for laboratory QC, i.e. MS / MSD analyses.

The relative percent difference (RPD) between the following semivolatile matrix spike and matrix spike duplicate recoveries is outside criteria. The compound was not detected in the unspiked sample, E3P16. Non-detected compounds in the unspiked sample, E3P16, are qualified "UJ".

E3P16MS, E3P16MSD

Pyrene

The following semivolatile matrix spike/matrix spike duplicate samples have percent recoveries greater than the upper acceptance criteria but less than or equal to 100%. Detected and non-detected compounds in the unspiked sample, E3P16, are not qualified.

E3P16MS, E3P16MSD

4-Nitrophenol

#### **6B. LABORATORY CONTROL SAMPLE**

No problems were found.

#### **7. FIELD BLANK AND FIELD DUPLICATE**

No samples were identified as trip blanks. Samples E3P27 and E3P28 were identified as field blanks. Samples E3P31 and E3P32 were identified as an undetermined type of field QC blank. Results are summarized in the following tables:

		<b>E3P27</b>	<b>E3P28</b>	<b>E3P31</b>	<b>E3P32</b>
<b>Volatile Analytes</b>	DF, units	1, ug/L	1, ug/L	1, ug/L	1, ug/L
Carbon disulfide		0.14	ND	ND	ND

		<b>E3P27</b>	<b>E3P28</b>	<b>E3P31</b>	<b>E3P32</b>
<b>Semivolatile Analytes</b>	DF, units	1, ug/L	1, ug/L	1, ug/L	1, ug/L
Diethylphthalate		ND	ND	ND	0.87
bis(2-Ethylhexyl)phthalate		1.9	ND	ND	ND
No. SVOA TICs		13	1	0	0

Sample E3P15 was identified as a field duplicate of sample E3P14. Sample E3P24 was identified as a field duplicate of sample E3P23. Results are summarized in the following tables:

		<b>E3P14</b>	<b>E3P15</b>	<b>RPD</b>
<b>Volatile Analytes</b>	DF, units	1, ug/L	1, ug/L	
Chlorobenzene		0.21	ND	200
1,4-Dichlorobenzene		0.40	0.14	96

		<b>E3P14</b>	<b>E3P15</b>	<b>RPD</b>
<b>Semivolatile Analytes</b>	DF, units	1, ug/L	1, ug/L	
Phenanthrene		0.47	ND	200
No. SVOA TICs		1	1	0

		<b>E3P23</b>	<b>E3P24</b>	<b>RPD</b>
<b>Volatile Analytes</b>	DF, units	1, ug/L	1, ug/L	
1,4-Dichlorobenzene		0.12	ND	200

		<b>E3P23</b>	<b>E3P24</b>	<b>RPD</b>
<b>Semivolatile Analytes</b>	DF, units	1, ug/L	1, ug/L	
bis(2-Ethylhexyl)phthalate		ND	3.6	200
No. SVOA TICs		1	1	0

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 VOA, SVOA, and Aroclor compounds were properly identified.

## 10. COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS

The following volatile samples have compound concentrations above the MDL and less than the CRQL. Detected compounds are qualified "J".

E3P10

Dichlorodifluoromethane, 1,1-Dichloroethene, Carbon disulfide

E3P12

1,1-Dichloroethene

E3P13

o-Xylene, m,p-Xylene, 1,4-Dichlorobenzene

E3P14

Chlorobenzene, 1,4-Dichlorobenzene

E3P15, E3P20, E3P23

1,4-Dichlorobenzene

E3P17

Chloroethane

E3P26

Toluene

E3P27

Carbon disulfide

VBLK6I

Chloromethane, Acetone, Carbon disulfide, Methylene chloride, trans-1,2-Dichloroethene, cis-1,2-Dichloroethene, Styrene, 1,3-Dichlorobenzene, 1,2,4-Trichlorobenzene, 1,2,3-Trichlorobenzene

VBLK6J

Chloromethane, Acetone, Carbon disulfide, Methylene chloride, 1,3-Dichlorobenzene, 1,2,4-Trichlorobenzene, 1,2,3-Trichlorobenzene

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VBLK6K

Chloromethane, Acetone, Methylene chloride, 1,3-Dichlorobenzene,  
1,2,3-Trichlorobenzene

VBLK6L

Chloromethane, Acetone, Methylene chloride, 1,3-Dichlorobenzene,  
1,2,4-Trichlorobenzene, 1,2,3-Trichlorobenzene

VBLK6M

Chloromethane, Acetone, Carbon disulfide, Methylene chloride, 1,4-Dioxane,  
Methylcyclohexane, Toluene, Tetrachloroethene, Dibromochloromethane,  
Chlorobenzene, Ethylbenzene, o-Xylene, m,p-Xylene, Styrene, Isopropylbenzene,  
1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1,2-Dichlorobenzene,  
1,2-Dibromo-3-chloropropane, 1,2,4-Trichlorobenzene, 1,2,3-Trichlorobenzene

The following semivolatile samples have compound concentrations above the MDL and less than the CRQL. Detected compounds are qualified "J".

E3P13

Naphthalene, Acenaphthene

E3P14

Phenanthrene

E3P16MS

bis(2-Chloroethyl)ether

E3P19, E3P20, E3P24, E3P27

bis(2-Ethylhexyl)phthalate

E3P32

Diethylphthalate

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

CAS No. 57-10-3 – n-Hexadecanoic acid

SBLK4C

CAS No. 65-85-0 – Benzoic acid

E3P10, E3P11, E3P12, E3P13, E3P14, E3P15, E3P16, E3P17, E3P18, E3P19,  
E3P20, E3P21, E3P22, E3P23, E3P24

CAS No. 103-23-1 – Di(2-ethylhexyl)adipate

SBLK4A

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CAS No. 112-92-5 – 1-Octadecanol;  
CAS No. 7206-21-5 – 5-Octadecene, (E)-;  
CAS No. 74685-29-3 – 9-Eicosene, (E)-;  
CAS No. 1000280-07-7 – Pentafluoroproionic acid, octadecyl est...  
E3P26

CAS No. 149-57-5 – Hexanoic acid, 2-ethyl-  
E3P13

CAS No. 533-60-8 – Cyclohexanone, 2-hydroxy-  
E3P22

CAS No. 7683-64-9 – Squalene  
E3P20, SBLK4C

CAS No. 62951-96-6 – 1,5,9-Undecatriene, 2,6,10-trimethyl-,  
E3P17

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

Unknown @ 5.99;    Unknown @ 6.25  
E3P22

Unknown @ 6.52  
E3P12

Unknown @ 7.71  
E3P27, E3P28, SBLK4C

Unknown @ 9.97;    Unknown @ 10.17;    Unknown @ 10.53;    Unknown @ 11.27;  
Unknown @ 11.56;    Unknown @ 15.24  
E3P17

Unknown @ 10.89  
SBLK4C

Unknown @ 15.20  
SBLK4B

Unknown @ 15.50;    Unknown @ 15.58;    Unknown @ 15.64;    Unknown @ 15.91;  
Unknown @ 16.00;    Unknown @ 16.14;    Unknown @ 16.37;    Unknown @ 16.55;  
Unknown @ 17.08;    Unknown @ 17.14;    Unknown @ 17.31;    Unknown @ 17.53  
E3P27

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Unknown @ 17.84  
SBLK4A

The following Aroclor samples have compound concentrations above the MDL and less than the CRQL. Detected compounds are qualified "J".

ALCS4A, ALCS4B  
Aroclor-1016, Aroclor-1260

## 11. SYSTEM PERFORMANCE

GC/MS baseline indicated acceptable performance. The GC baseline for the Aroclor analysis was acceptable.

## 12. ADDITIONAL INFORMATION

TICs with no CAS Numbers were not reported in the EXES Sample Summary Report for the semivolatiles fraction. Please refer to Word document "41861 SDG E3P14 TIC Report" for the validated TIC results.

The CADRE and EDD spreadsheets did not include the following Aroclor LCS samples. Form Is for these samples are included with the hard copy data package.

ALCS4A, ALCS4B

### CADRE Data Qualifier Sheet

#### Qualifiers

U

#### Data Qualifier Definitions

The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

Reviewed by: Christina Rice / TechLaw-ESAT  
Date: December 16, 2011

- 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:	41861	Contract:	EPW11034	SDG No:	E3P14	Lab Code:	PEL
Sample Number:	ABLK4A	Method:	Aroclor	Matrix:	Water	MA Number:	DEFAULT
Sample Location:		pH:	1.8	Sample Date:		Sample Time:	
% 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:	41861	Contract:	EPW11034	SDG No:	E3P14	Lab Code:	PEL
Sample Number:	ABLK4B	Method:	Aroclor	Matrix:	Water	MA Number:	DEFAULT
Sample Location:		pH:	1.8	Sample Date:		Sample Time:	
% 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:	41861	Contract:	EPW11034	SDG No:	E3P14	Lab Code:	PEL
Sample Number:	E3P10	Method:	VOA_Low_Med	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	MW-01	pH:	1.8	Sample Date:	10122011	Sample Time:	10:15:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Dichlorodifluoro methane	0.32	ug/L	1.0	J	J	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	0.58	ug/L	1.0	J	J	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	0.11	ug/L	1.0	J	J	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	
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	R	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	
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	
1,1,1,2-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:	41861	Contract:	EPW11034	SDG No:	E3P14	Lab Code:	PEL
Sample Number:	E3P10	Method:	BNA	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	MW-01	pH:	1.8	Sample Date:	10122011	Sample Time:	10:15:00
% 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	UJ	Yes	
Benzo(k)fluoranthene	5.0	ug/L	1.0	U	UJ	Yes	
Benzo(a)pyrene	5.0	ug/L	1.0	U	UJ	Yes	
Indeno(1,2,3-cd)pyrene	5.0	ug/L	1.0	U	UJ	Yes	
Dibenzo(a,h)anthracene	5.0	ug/L	1.0	U	UJ	Yes	
Benzo(g,h,i)perylene	5.0	ug/L	1.0	U	UJ	Yes	
2,3,4,6-Tetrachlorophenol	5.0	ug/L	1.0	U	U	Yes	
Benzoic acid_1			1.0	NJ		Yes	

Case No:	41861	Contract:	EPW11034	SDG No:	E3P14	Lab Code:	PEL
Sample Number:	E3P10	Method:	Aroclor	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	MW-01	pH:	1.8	Sample Date:	10122011	Sample Time:	10:15:00
% 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:	41861	Contract:	EPW11034	SDG No:	E3P14	Lab Code:	PEL
Sample Number:	E3P11	Method:	Aroclor	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	MW-02	pH:	1.8	Sample Date:	10122011	Sample Time:	11:12:00
% 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:	41861	Contract:	EPW11034	SDG No:	E3P14	Lab Code:	PEL
Sample Number:	E3P11	Method:	BNA	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	MW-02	pH:	1.8	Sample Date:	10122011	Sample Time:	11:12:00
% 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	
Benzoic acid_1			1.0	NJ		Yes	

Case No:	41861	Contract:	EPW11034	SDG No:	E3P14	Lab Code:	PEL
Sample Number:	E3P11	Method:	VOA_Low_Med	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	MW-02	pH:	1.8	Sample Date:	10122011	Sample Time:	11:12:00
% 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	20	ug/L	1.0	JB	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	
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	R	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	
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	
1,1,1,2-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:	41861	Contract:	EPW11034	SDG No:	E3P14	Lab Code:	PEL
Sample Number:	E3P12	Method:	Aroclor	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	MW-03	pH:	1.8	Sample Date:	10122011	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	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:	41861	Contract:	EPW11034	SDG No:	E3P14	Lab Code:	PEL
Sample Number:	E3P12	Method:	BNA	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	MW-03	pH:	1.8	Sample Date:	10122011	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	
Benzoic acid_2			1.0	NJ		Yes	

Case No:	41861	Contract:	EPW11034	SDG No:	E3P14	Lab Code:	PEL
Sample Number:	E3P12	Method:	VOA_Low_Med	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	MW-03	pH:	1.8	Sample Date:	10122011	Sample Time:	16:10:00
% 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	0.55	ug/L	1.0	J	J	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	
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	R	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	
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:	41861	Contract:	EPW11034	SDG No:	E3P14	Lab Code:	PEL
Sample Number:	E3P13	Method:	VOA_Low_Med	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	MW-04	pH:	1.8	Sample Date:	10112011	Sample Time:	12:00:00
% 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	20	ug/L	1.0	JB	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	
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	R	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	
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	0.18	ug/L	1.0	J	J	Yes	
m,p-Xylene	0.13	ug/L	1.0	J	J	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	0.44	ug/L	1.0	J	J	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:	41861	Contract:	EPW11034	SDG No:	E3P14	Lab Code:	PEL
Sample Number:	E3P13	Method:	BNA	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	MW-04	pH:	1.8	Sample Date:	10112011	Sample Time:	12:00:00
% 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	1.0	ug/L	1.0	J	J	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	0.88	ug/L	1.0	J	J	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	UJ	Yes	
Benzo(k)fluoranthene	5.0	ug/L	1.0	U	UJ	Yes	
Benzo(a)pyrene	5.0	ug/L	1.0	U	UJ	Yes	
Indeno(1,2,3-cd)pyrene	5.0	ug/L	1.0	U	UJ	Yes	
Dibenzo(a,h)anthracene	5.0	ug/L	1.0	U	UJ	Yes	
Benzo(g,h,i)perylene	5.0	ug/L	1.0	U	UJ	Yes	
2,3,4,6-Tetrachlorophenol	5.0	ug/L	1.0	U	U	Yes	
Benzoic acid_2			1.0	NJ		Yes	
Hexanoic acid, 2-ethyl-1			1.0	NJ		Yes	

Case No:	41861	Contract:	EPW11034	SDG No:	E3P14	Lab Code:	PEL
Sample Number:	E3P13	Method:	Aroclor	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	MW-04	pH:	1.8	Sample Date:	10112011	Sample Time:	12:00:00
% 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:	41861	Contract:	EPW11034	SDG No:	E3P14	Lab Code:	PEL
Sample Number:	E3P14	Method:	BNA	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	MW-05	pH:	1.8	Sample Date:	10112011	Sample Time:	13:15:00
% 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	