



United States Environmental Protection Agency
Office of Environmental Measurement & Evaluation
11 Technology Drive
North Chelmsford, MA 01863-2431

Laboratory Report

June 21, 2011

Tom Hatzopoulos - Mail Code OSRR02-2
US EPA New England R1

Project Number: 11060033

Project: Former Bendix Property - Greenfield, MA

Analysis: BNAs in Water

Analyst: Dan Boudreau *DB*
6/21/11

Analytical Procedure:

All samples were received and logged in by the laboratory according to the USEPA New England Laboratory SOP for Sample Log-in.

Sample preparation and analysis was done following the EPA Region I SOP, EIASOP-BNAW2.

Samples were prepared using separatory funnel liquid-liquid extraction. The samples were analyzed using high resolution capillary column chromatography and quadrapole mass spectrometry (GC/MS). The SOP for this method is based on the US EPA SW-846 Methods 3510C, 8270C, Method 625, and EIASOP-BNAGCMS7.

Date Samples Received by the Laboratory: 06/17/2011

Data were reviewed in accordance with the internal verification procedures described in the EPA New England OEME Chemistry QA Plan.

Results relate only to the items tested or to the samples as received by the Laboratory. This analytical report shall not be reproduced except in full, without written approval of the laboratory.

Report may contain multiple sections and each section will be numbered independently.

If you have any questions please call me at 617-918-8340 .

Sincerely,

Dan Boudreau 6/22/11

Daniel N. Boudreau
Chemistry Team Leader

Qualifiers:

RL = Reporting limit

ND = Not Detected above Reporting limit

NA = Not Applicable due to high sample dilutions or sample interferences

NC = Not calculated since analyte concentration is ND.

J = Estimated value

E = Estimated value exceeds the calibration range

L = Estimated value is below the calibration range

B = Analyte is associated with the lab blank or trip blank contamination. Values are qualified when the observed concentration of the contamination in the sample extract is less than 5 times the concentration in the blank.

R = No recovery was calculated since the analyte concentration is greater than four times the spike level.

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Former Bendix Property - Greenfield, MA

BNAs in Water

Client Sample ID: 0710-0001
Date of Collection: 6/16/2011
Date of Extraction: 6/20/11
Date of Analysis: 6/20/11
Dry Weight Extracted: N/A
Wet Weight Extracted: N/A

Lab Sample ID: AB18817
Matrix: SW
Volume Extracted: 1000 mL
Percent Solids: N/A
Extract Dilution: 1
pH: N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.5	
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	
95-50-1	1,2-Dichlorobenzene	ND	2.5	
541-73-1	1,3-Dichlorobenzene	ND	2.5	
99-65-0	1,3-Dinitrobenzene	ND	2.5	
106-46-7	1,4-Dichlorobenzene	ND	2.5	
130-15-4	1,4-Naphthoquinone	ND	5.0	
90-12-0	1-Methylnaphthalene	ND	2.5	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	2.5	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	2.5	
95-95-4	2,4,5-Trichlorophenol	ND	2.5	
88-06-2	2,4,6-Trichlorophenol	ND	2.5	
120-83-2	2,4-Dichlorophenol	ND	2.5	
51-28-5	2,4-Dinitrophenol	ND	10.0	
121-14-2	2,4-Dinitrotoluene	ND	2.5	
105-67-9	2,4-dimethylphenol	ND	2.5	
87-65-0	2,6-Dichlorophenol	ND	2.5	
606-20-2	2,6-Dinitrotoluene	ND	2.5	
91-58-7	2-Chloronaphthalene	ND	2.5	
95-57-8	2-Chlorophenol	ND	2.5	
91-57-6	2-Methylnaphthalene	ND	2.5	
95-48-7	2-Methylphenol	ND	2.5	
88-74-4	2-Nitroaniline	ND	2.5	
88-75-5	2-Nitrophenol	ND	2.5	
108-39-4/106-44-	3&4-Methylphenol	ND	5.0	
91-94-1	3,3'-Dichlorobenzidine	ND	2.5	
56-49-5	3-Methylcholanthrene	ND	5.0	
99-09-2	3-Nitroaniline	ND	2.5	
534-52-1	4,6-Dinitro-2-methylphenol	ND	5.0	
101-55-3	4-Bromophenyl-phenylether	ND	2.5	
59-50-7	4-Chloro-3-methylphenol	ND	2.5	
106-47-8	4-Chloroaniline	ND	2.5	
7005-72-3	4-Chlorophenyl-phenylether	ND	2.5	
100-01-6	4-Nitroaniline	ND	2.5	
100-02-7	4-Nitrophenol	ND	2.5	
56-57-5	4-nitroquinoline-1-oxide	ND	20.0	
83-32-9	Acenaphthene	ND	2.5	
208-96-8	Acenaphthylene	ND	2.5	
98-86-2	Acetophenone	ND	2.5	
62-53-3	Aniline	ND	2.5	
120-12-7	Anthracene	ND	2.5	
140-57-8	Aramite	ND	2.5	

103-33-3	Azobenzene	ND	2.5
92-87-5	Benzidine	ND	2.5
56-55-3	Benzo(a)anthracene	ND	2.5
50-32-8	Benzo(a)pyrene	ND	2.5
205-99-2	Benzo(b)fluoranthene	ND	2.5
191-24-2	Benzo(g,h,i)perylene	ND	2.5
207-08-9	Benzo(k)fluoranthene	ND	2.5
65-85-0	Benzoic acid	ND	5.0
100-51-6	Benzyl alcohol	ND	2.5
111-44-4	Bis(2-Chloroethyl)ether	ND	2.5
117-81-7	Bis(2-ethylhexyl)phthalate	ND	2.5
85-68-7	Butylbenzylphthalate	ND	2.5
86-74-8	Carbazole	ND	2.5
510-15-6	Chlorobenzilate	ND	2.5
218-01-9	Chrysene	ND	2.5
84-74-2	Di-n-butylphthalate	ND	2.5
117-84-0	Di-n-octyl phthalate	ND	5.0
53-70-3	Dibenz(a,h)anthracene	ND	2.5
132-64-9	Dibenzofuran	ND	2.5
84-66-2	Diethylphthalate	ND	2.5
131-11-3	Dimethyl phthalate	ND	2.5
88-85-7	Dinoseb	ND	5.0
62-50-0	Ethyl methanesulfonate	ND	2.5
206-44-0	Fluoranthene	ND	2.5
86-73-7	Fluorene	ND	2.5
118-74-1	Hexachlorobenzene	ND	2.5
87-68-3	Hexachlorobutadiene	ND	2.5
77-47-4	Hexachlorocyclopentadiene	ND	2.5
67-72-1	Hexachloroethane	ND	2.5
1888-71-7	Hexachloropropene	ND	2.5
193-39-5	Indeno(1,2,3-cd)pyrene	ND	2.5
465-73-6	Isodrin	ND	2.5
78-59-1	Isophorone	ND	2.5
120-58-1	Isosafrole	ND	2.5
143-50-0	Kepone	ND	5.0
66-27-3	Methyl methanesulfonate	ND	2.5
86-30-6	N-Nitrosodiphenylamine	ND	2.5
621-64-7	N-nitroso-di-n-propylamine	ND	2.5
62-75-9	N-nitrosodimethylamine	ND	2.5
91-20-3	Naphthalene	ND	2.5
98-95-3	Nitrobenzene	ND	2.5
608-93-5	Pentachlorobenzene	ND	2.5
82-68-8	Pentachloronitrobenzene	ND	2.5
87-86-5	Pentachlorophenol	ND	5.0
62-44-2	Phenacetin	ND	2.5
85-01-8	Phenanthrene	ND	2.5
108-95-2	Phenol	ND	2.5
129-00-0	Pyrene	ND	2.5
110-86-1	Pyridine	ND	2.5
94-59-7	Safrole	ND	2.5
111-91-1	bis(-2-Chloroethoxy)methane	ND	2.5

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,6-Tribromophenol (SS5)	102	34 - 122
2-Fluorobiphenyl (SS4)	69	46 - 112
2-Fluorophenol (SS1)	38	23 - 74
Nitrobenzene-d5 (SS3)	61	33 - 122
Phenol-d6 (SS2)	25	13 - 53
p-Terphenyl-d14 (SS6)	82	52 - 126

Comments: The reporting levels of the following compounds have been raised to reflect the calibration range of the method;
benzoic acid, 1,4-naphthoquinone, 2,4-dinitrophenol, 4,6-dinitro-2-methylphenol, pentachlorophenol, dinoseb, aramite, kepone, di-n-octyl phthalate, 3-methylcholanthrene, and 4-nitroquinoline-1-oxide.

Tentatively Identified non-Target Compounds

Benzothiazole	13	ppb	J
4-(4-chlorophenyl)-3-Buten-2-one	20	ppb	J
2-(methylthio)-benzothiazole	12	ppb	J

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Former Bendix Property - Greenfield, MA

Laboratory Blank Results

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix	SW
Date of Extraction:	6/20/11	Volume Extracted:	1000 mL
Date of Analysis:	6/20/11	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
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608-93-5	Pentachlorobenzene	ND	2.5
82-68-8	Pentachloronitrobenzene	ND	2.5
87-86-5	Pentachlorophenol	ND	5.0
62-44-2	Phenacetin	ND	2.5
85-01-8	Phenanthrene	ND	2.5
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129-00-0	Pyrene	ND	2.5
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Surrogate Compounds	Recoveries (%)	QC Ranges
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2-Fluorobiphenyl (SS4)	48	46 - 112
2-Fluorophenol (SS1)	36	23 - 74
Nitrobenzene-d5 (SS3)	54	33 - 122
Phenol-d6 (SS2)	22	13 - 53
p-Terphenyl-d14 (SS6)	81	52 - 126

Comments: The reporting levels of the following compounds have been raised to reflect the calibration range of the method;
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US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Former Bendix Property - Greenfield, MA

BNAs in Water

Client Sample ID: 0710-0002
Date of Collection: 6/16/2011
Date of Extraction: 6/20/11
Date of Analysis: 6/20/11
Dry Weight Extracted: N/A
Wet Weight Extracted: N/A

Lab Sample ID: AB18818
Matrix: SW
Volume Extracted: 1000 mL
Percent Solids: N/A
Extract Dilution: 1
pH: N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
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51-28-5	2,4-Dinitrophenol	ND	10.0	
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608-93-5	Pentachlorobenzene	ND	2.5
82-68-8	Pentachloronitrobenzene	ND	2.5
87-86-5	Pentachlorophenol	ND	5.0
62-44-2	Phenacetin	ND	2.5
85-01-8	Phenanthrene	ND	2.5
108-95-2	Phenol	ND	2.5
129-00-0	Pyrene	ND	2.5
110-86-1	Pyridine	ND	2.5
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Surrogate Compounds

Surrogate Compounds	Recoveries (%)	QC Ranges
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2-Fluorophenol (SS1)	41	23 - 74
Nitrobenzene-d5 (SS3)	68	33 - 122
Phenol-d6 (SS2)	27	13 - 53
p-Terphenyl-d14 (SS6)	78	52 - 126

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NEW ENGLAND LABORATORY

Former Bendix Property - Greenfield, MA

BNAs in Water

Client Sample ID: 0710-0003
Date of Collection: 6/16/2011
Date of Extraction: 6/20/11
Date of Analysis: 6/20/11
Dry Weight Extracted: N/A
Wet Weight Extracted: N/A

Lab Sample ID: AB18819
Matrix: SW
Volume Extracted: 1000 mL
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pH: N/A

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541-73-1	1,3-Dichlorobenzene	ND	2.5	
99-65-0	1,3-Dinitrobenzene	ND	2.5	
106-46-7	1,4-Dichlorobenzene	ND	2.5	
130-15-4	1,4-Naphthoquinone	ND	5.0	
90-12-0	1-Methylnaphthalene	ND	2.5	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	2.5	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	2.5	
95-95-4	2,4,5-Trichlorophenol	ND	2.5	
88-06-2	2,4,6-Trichlorophenol	ND	2.5	
120-83-2	2,4-Dichlorophenol	ND	2.5	
51-28-5	2,4-Dinitrophenol	ND	10.0	
121-14-2	2,4-Dinitrotoluene	ND	2.5	
105-67-9	2,4-dimethylphenol	ND	2.5	
87-65-0	2,6-Dichlorophenol	ND	2.5	
606-20-2	2,6-Dinitrotoluene	ND	2.5	
91-58-7	2-Chloronaphthalene	ND	2.5	
95-57-8	2-Chlorophenol	ND	2.5	
91-57-6	2-Methylnaphthalene	ND	2.5	
95-48-7	2-Methylphenol	ND	2.5	
88-74-4	2-Nitroaniline	ND	2.5	
88-75-5	2-Nitrophenol	ND	2.5	
108-39-4/106-44-	3&4-Methylphenol	ND	5.0	
91-94-1	3,3'-Dichlorobenzidine	ND	2.5	
56-49-5	3-Methylcholanthrene	ND	5.0	
99-09-2	3-Nitroaniline	ND	2.5	
534-52-1	4,6-Dinitro-2-methylphenol	ND	5.0	
101-55-3	4-Bromophenyl-phenylether	ND	2.5	
59-50-7	4-Chloro-3-methylphenol	ND	2.5	
106-47-8	4-Chloroaniline	ND	2.5	
7005-72-3	4-Chlorophenyl-phenylether	ND	2.5	
100-01-6	4-Nitroaniline	ND	2.5	
100-02-7	4-Nitrophenol	ND	2.5	
56-57-5	4-nitroquinoline-1-oxide	ND	20.0	
83-32-9	Acenaphthene	ND	2.5	
208-96-8	Acenaphthylene	ND	2.5	
98-86-2	Acetophenone	ND	2.5	
62-53-3	Aniline	ND	2.5	
120-12-7	Anthracene	ND	2.5	
140-57-8	Aramite	ND	2.5	

103-33-3	Azobenzene	ND	2.5
92-87-5	Benzidine	ND	2.5
56-55-3	Benzo(a)anthracene	ND	2.5
50-32-8	Benzo(a)pyrene	ND	2.5
205-99-2	Benzo(b)fluoranthene	ND	2.5
191-24-2	Benzo(g,h,i)perylene	ND	2.5
207-08-9	Benzo(k)fluoranthene	ND	2.5
65-85-0	Benzoic acid	ND	5.0
100-51-6	Benzyl alcohol	ND	2.5
111-44-4	Bis(2-Chloroethyl)ether	ND	2.5
117-81-7	Bis(2-ethylhexyl)phthalate	ND	2.5
85-68-7	Butylbenzylphthalate	ND	2.5
86-74-8	Carbazole	ND	2.5
510-15-6	Chlorobenzilate	ND	2.5
218-01-9	Chrysene	ND	2.5
84-74-2	Di-n-butylphthalate	ND	2.5
117-84-0	Di-n-octyl phthalate	ND	5.0
53-70-3	Dibenz(a,h)anthracene	ND	2.5
132-64-9	Dibenzofuran	ND	2.5
84-66-2	Diethylphthalate	ND	2.5
131-11-3	Dimethyl phthalate	ND	2.5
88-85-7	Dinoseb	ND	5.0
62-50-0	Ethyl methanesulfonate	ND	2.5
206-44-0	Fluoranthene	ND	2.5
86-73-7	Fluorene	ND	2.5
118-74-1	Hexachlorobenzene	ND	2.5
87-68-3	Hexachlorobutadiene	ND	2.5
77-47-4	Hexachlorocyclopentadiene	ND	2.5
67-72-1	Hexachloroethane	ND	2.5
1888-71-7	Hexachloropropene	ND	2.5
193-39-5	Indeno(1,2,3-cd)pyrene	ND	2.5
465-73-6	Isodrin	ND	2.5
78-59-1	Isophorone	ND	2.5
120-58-1	Isosafrole	ND	2.5
143-50-0	Kepone	ND	5.0
66-27-3	Methyl methanesulfonate	ND	2.5
86-30-6	N-Nitrosodiphenylamine	ND	2.5
621-64-7	N-nitroso-di-n-propylamine	ND	2.5
62-75-9	N-nitrosodimethylamine	ND	2.5
91-20-3	Naphthalene	ND	2.5
98-95-3	Nitrobenzene	ND	2.5
608-93-5	Pentachlorobenzene	ND	2.5
82-68-8	Pentachloronitrobenzene	ND	2.5
87-86-5	Pentachlorophenol	ND	5.0
62-44-2	Phenacetin	ND	2.5
85-01-8	Phenanthrene	ND	2.5
108-95-2	Phenol	ND	2.5
129-00-0	Pyrene	ND	2.5
110-86-1	Pyridine	ND	2.5
94-59-7	Safrole	ND	2.5
111-91-1	bis(-2-Chloroethoxy)methane	ND	2.5

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,6-Tribromophenol (SS5)	87	34 - 122
2-Fluorobiphenyl (SS4)	71	46 - 112
2-Fluorophenol (SS1)	29	23 - 74
Nitrobenzene-d5 (SS3)	66	33 - 122
Phenol-d6 (SS2)	21	13 - 53
p-Terphenyl-d14 (SS6)	87	52 - 126

Comments: The reporting levels of the following compounds have been raised to reflect the calibration range of the method;

benzoic acid, 1,4-naphthoquinone, 2,4-dinitrophenol, 4,6-dinitro-2-methylphenol, pentachlorophenol, dinoseb, aramite, kepone, di-n-octyl phthalate, 3-methylcholanthrene, and 4-nitroquinoline-1-oxide.

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Former Bendix Property - Greenfield, MA

BNAs in Water

Client Sample ID: 0710-0004
Date of Collection: 6/16/2011
Date of Extraction: 6/20/11
Date of Analysis: 6/20/11
Dry Weight Extracted: N/A
Wet Weight Extracted: N/A

Lab Sample ID: AB18820
Matrix: SW
Volume Extracted: 1000 mL
Percent Solids: N/A
Extract Dilution: 1
pH: N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.5	
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	
95-50-1	1,2-Dichlorobenzene	ND	2.5	
541-73-1	1,3-Dichlorobenzene	ND	2.5	
99-65-0	1,3-Dinitrobenzene	ND	2.5	
106-46-7	1,4-Dichlorobenzene	ND	2.5	
130-15-4	1,4-Naphthoquinone	ND	5.0	
90-12-0	1-Methylnaphthalene	ND	2.5	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	2.5	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	2.5	
95-95-4	2,4,5-Trichlorophenol	ND	2.5	
88-06-2	2,4,6-Trichlorophenol	ND	2.5	
120-83-2	2,4-Dichlorophenol	ND	2.5	
51-28-5	2,4-Dinitrophenol	ND	10.0	
121-14-2	2,4-Dinitrotoluene	ND	2.5	
105-67-9	2,4-dimethylphenol	ND	2.5	
87-65-0	2,6-Dichlorophenol	ND	2.5	
606-20-2	2,6-Dinitrotoluene	ND	2.5	
91-58-7	2-Chloronaphthalene	ND	2.5	
95-57-8	2-Chlorophenol	ND	2.5	
91-57-6	2-Methylnaphthalene	ND	2.5	
95-48-7	2-Methylphenol	ND	2.5	
88-74-4	2-Nitroaniline	ND	2.5	
88-75-5	2-Nitrophenol	ND	2.5	
108-39-4/106-44-	3&4-Methylphenol	ND	5.0	
91-94-1	3,3'-Dichlorobenzidine	ND	2.5	
56-49-5	3-Methylcholanthrene	ND	5.0	
99-09-2	3-Nitroaniline	ND	2.5	
534-52-1	4,6-Dinitro-2-methylphenol	ND	5.0	
101-55-3	4-Bromophenyl-phenylether	ND	2.5	
59-50-7	4-Chloro-3-methylphenol	ND	2.5	
106-47-8	4-Chloroaniline	ND	2.5	
7005-72-3	4-Chlorophenyl-phenylether	ND	2.5	
100-01-6	4-Nitroaniline	ND	2.5	
100-02-7	4-Nitrophenol	ND	2.5	
56-57-5	4-nitroquinoline-1-oxide	ND	20.0	
83-32-9	Acenaphthene	ND	2.5	
208-96-8	Acenaphthylene	ND	2.5	
98-86-2	Acetophenone	ND	2.5	
62-53-3	Aniline	ND	2.5	
120-12-7	Anthracene	ND	2.5	
140-57-8	Aramite	ND	2.5	

103-33-3	Azobenzene	ND	2.5
92-87-5	Benzidine	ND	2.5
56-55-3	Benzo(a)anthracene	ND	2.5
50-32-8	Benzo(a)pyrene	ND	2.5
205-99-2	Benzo(b)fluoranthene	ND	2.5
191-24-2	Benzo(g,h,i)perylene	ND	2.5
207-08-9	Benzo(k)fluoranthene	ND	2.5
65-85-0	Benzoic acid	ND	5.0
100-51-6	Benzyl alcohol	ND	2.5
111-44-4	Bis(2-Chloroethyl)ether	ND	2.5
117-81-7	Bis(2-ethylhexyl)phthalate	8.5	2.5
85-68-7	Butylbenzylphthalate	ND	2.5
86-74-8	Carbazole	ND	2.5
510-15-6	Chlorobenzilate	ND	2.5
218-01-9	Chrysene	ND	2.5
84-74-2	Di-n-butylphthalate	ND	2.5
117-84-0	Di-n-octyl phthalate	ND	5.0
53-70-3	Dibenz(a,h)anthracene	ND	2.5
132-64-9	Dibenzofuran	ND	2.5
84-66-2	Diethylphthalate	ND	2.5
131-11-3	Dimethyl phthalate	ND	2.5
88-85-7	Dinoseb	ND	5.0
62-50-0	Ethyl methanesulfonate	ND	2.5
206-44-0	Fluoranthene	ND	2.5
86-73-7	Fluorene	ND	2.5
118-74-1	Hexachlorobenzene	ND	2.5
87-68-3	Hexachlorobutadiene	ND	2.5
77-47-4	Hexachlorocyclopentadiene	ND	2.5
67-72-1	Hexachloroethane	ND	2.5
1888-71-7	Hexachloropropene	ND	2.5
193-39-5	Indeno(1,2,3-cd)pyrene	ND	2.5
465-73-6	Isodrin	ND	2.5
78-59-1	Isophorone	ND	2.5
120-58-1	Isosafrole	ND	2.5
143-50-0	Kepone	ND	5.0
66-27-3	Methyl methanesulfonate	ND	2.5
86-30-6	N-Nitrosodiphenylamine	ND	2.5
621-64-7	N-nitroso-di-n-propylamine	ND	2.5
62-75-9	N-nitrosodimethylamine	ND	2.5
91-20-3	Naphthalene	ND	2.5
98-95-3	Nitrobenzene	ND	2.5
608-93-5	Pentachlorobenzene	ND	2.5
82-68-8	Pentachloronitrobenzene	ND	2.5
87-86-5	Pentachlorophenol	ND	5.0
62-44-2	Phenacetin	ND	2.5
85-01-8	Phenanthrene	ND	2.5
108-95-2	Phenol	ND	2.5
129-00-0	Pyrene	ND	2.5
110-86-1	Pyridine	ND	2.5
94-59-7	Safrole	ND	2.5
111-91-1	bis(-2-Chloroethoxy)methane	ND	2.5

Surrogate Compounds

	Recoveries (%)	QC Ranges
2,4,6-Tribromophenol (SS5)	98	34 - 122
2-Fluorobiphenyl (SS4)	72	46 - 112
2-Fluorophenol (SS1)	37	23 - 74
Nitrobenzene-d5 (SS3)	70	33 - 122
Phenol-d6 (SS2)	23	13 - 53
p-Terphenyl-d14 (SS6)	77	52 - 126

Comments: The reporting levels of the following compounds have been raised to reflect the calibration range of the method;
benzoic acid, 1,4-naphthoquinone, 2,4-dinitrophenol, 4,6-dinitro-2-methylphenol, pentachlorophenol, dinoseb, aramite, kepone, di-n-octyl phthalate, 3-methylcholanthrene, and 4-nitroquinoline-1-oxide.

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

QA/QC RESULTS
LABORATORY FORTIFIED BLANK (LFB)

Sample ID: AB18817

COMPOUND	SPIKE ADDED ug/L	LFB CONCENTRATION ug/L	LFB RECOVERY %	QC LIMITS (% REC)
1,2,4,5-Tetrachlorobenzene	40	15.3	38	50 - 104
1,2,4-Trichlorobenzene	40	13.6	34	31 - 106
1,2-Dichlorobenzene	40	12.8	32	26 - 103
1,3-Dichlorobenzene	40	10.9	27	20 - 100
1,3-Dinitrobenzene	40	36.9	92	31 - 152
1,4-Dichlorobenzene	40	11.6	29	21 - 100
1,4-Naphthoquinone	40	27.4	69	52 - 110
1-Methylnaphthalene	40	21.3	53	54 - 110
2,2'-oxybis(1-chloropropane)	40	20.6	52	43 - 124
2,3,4,6-Tetrachlorophenol	40	35.2	88	63 - 127
2,4,5-Trichlorophenol	40	32.0	80	62 - 125
2,4,6-Trichlorophenol	40	31.0	78	67 - 119
2,4-Dichlorophenol	40	26.8	67	64 - 113
2,4-Dinitrophenol	40	23.3	58	28 - 139
2,4-Dinitrotoluene	40	35.1	88	64 - 131
2,4-dimethylphenol	40	25.0	63	21 - 123
2,6-Dichlorophenol	40	26.5	66	63 - 111
2,6-Dinitrotoluene	40	34.0	85	65 - 127
2-Chloronaphthalene	40	21.2	53	50 - 120
2-Chlorophenol	40	22.4	56	57 - 105
2-Methylnaphthalene	40	21.4	54	53 - 107
2-Methylphenol	40	21.1	53	47 - 105
2-Nitroaniline	40	32.9	82	58 - 144
2-Nitrophenol	40	25.8	65	59 - 124
3&4-Methylphenol	80	41.9	52	13 - 144
3,3'-Dichlorobenzidine	40	35.4	89	5.0 - 163
3-Methylcholanthrene	40	34.0	85	23 - 166
3-Nitroaniline	40	31.2	78	45 - 129
4,6-Dinitro-2-methylphenol	40	29.6	74	45 - 128
4-Bromophenyl-phenylether	40	29.8	75	63 - 121
4-Chloro-3-methylphenol	40	31.6	79	65 - 119
4-Chloroaniline	40	22.9	57	7.8 - 122
4-Chlorophenyl-phenylether	40	25.3	63	61 - 116
4-Nitroaniline	40	34.0	85	41 - 139
4-Nitrophenol	40	20.7	52	5.8 - 109
4-nitroquinoline-1-oxide	40	24.8	62	38 - 108
Acenaphthene	40	25.8	65	61 - 113
Acenaphthylene	40	27.6	69	62 - 113
Acetophenone	40	22.7	57	61 - 113
Aniline	40	17.6	44	17 - 109
Anthracene	40	34.4	86	68 - 121

Aramite	40	35.3	88	24 - 158
Azobenzene	40	29.8	75	60 - 123
Benzidine	40	9.6	24	10 - 80
Benzo(a)anthracene	40	35.6	89	69 - 119
Benzo(a)pyrene	40	36.5	91	57 - 132
Benzo(b)fluoranthene	40	34.9	87	55 - 139
Benzo(g,h,i)perylene	40	35.7	89	60 - 130
Benzo(k)fluoranthene	40	36.8	92	62 - 126
Benzoic acid	40	7.0	18	3.7 - 86
Benzyl alcohol	40	19.6	49	23 - 133
Bis(2-Chloroethyl)ether	40	20.8	52	57 - 111
Bis(2-ethylhexyl)phthalate	40	32.7	82	37 - 155
Butylbenzylphthalate	40	36.0	90	64 - 133
Carbazole	40	34.6	87	62 - 128
Chlorobenzilate	40	39.9	100	55 - 146
Chrysene	40	34.9	87	71 - 110
Di-n-butylphthalate	40	37.7	94	68 - 135
Di-n-octyl phthalate	40	32.8	82	35 - 160
Dibenz(a,h)anthracene	40	37.5	94	58 - 137
Dibenzofuran	40	25.9	65	62 - 113
Diethylphthalate	40	33.9	85	56 - 131
Dimethyl phthalate	40	32.5	81	64 - 121
Dinoseb	40	31.2	78	46 - 121
Ethyl methanesulfonate	40	21.5	54	56 - 117
Fluoranthene	40	36.7	92	64 - 128
Fluorene	40	29.2	73	63 - 119
Hexachlorobenzene	40	35.1	88	62 - 118
Hexachlorobutadiene	40	8.1	20	9.5 - 107
Hexachlorocyclopentadiene	40	7.3	18	11 - 117
Hexachloroethane	40	7.3	18	6.9 - 101
Hexachloropropene	40	5.3	13	8.1 - 110
Indeno(1,2,3-cd)pyrene	40	36.9	92	62 - 129
Isodrin	40	34.0	85	63 - 119
Isophorone	40	26.4	66	60 - 130
Isosafrole	40	24.6	62	59 - 112
Kepone	40	26.2	66	8.3 - 117
Methyl methanesulfonate	40	17.8	45	37 - 98
N-Nitrosodiphenylamine	40	32.2	81	58 - 117
N-nitroso-di-n-propylamine	40	24.4	61	58 - 124
N-nitrosodimethylamine	40	13.8	35	35 - 72
Naphthalene	40	19.6	49	47 - 110
Nitrobenzene	40	23.2	58	58 - 115
Pentachlorobenzene	40	22.4	56	61 - 112
Pentachloronitrobenzene	40	39.8	100	65 - 127
Pentachlorophenol	40	31.6	79	11 - 167
Phenacetin	40	36.3	91	55 - 143
Phenanthrene	40	32.5	81	63 - 122
Phenol	40	11.2	28	20 - 64
Pyrene	40	35.2	88	68 - 117
Pyridine	40	12.0	30	5.3 - 85
Safrole	40	26.6	67	56 - 117
bis(-2-Chloroethoxy)methane	40	24.2	61	64 - 114

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Laboratory Duplicate Results

Sample ID: AB18817

PARAMETER	SAMPLE RESULT ug/L	SAMPLE DUPLICATE RESULT ug/L	PRECISION RPD %	QC LIMITS
1,2,4,5-Tetrachlorobenzene	ND	ND	ND	50
1,2,4-Trichlorobenzene	ND	ND	ND	50
1,2-Dichlorobenzene	ND	ND	ND	50
1,3-Dichlorobenzene	ND	ND	ND	50
1,3-Dinitrobenzene	ND	ND	ND	50
1,4-Dichlorobenzene	ND	ND	ND	50
1,4-Naphthoquinone	ND	ND	ND	50
1-Methylnaphthalene	ND	ND	ND	50
2,2'-oxybis(1-chloropropane)	ND	ND	ND	50
2,3,4,6-Tetrachlorophenol	ND	ND	ND	50
2,4,5-Trichlorophenol	ND	ND	ND	50
2,4,6-Trichlorophenol	ND	ND	ND	50
2,4-Dichlorophenol	ND	ND	ND	50
2,4-Dinitrophenol	ND	ND	ND	50
2,4-Dinitrotoluene	ND	ND	ND	50
2,4-dimethylphenol	ND	ND	ND	50
2,6-Dichlorophenol	ND	ND	ND	50
2,6-Dinitrotoluene	ND	ND	ND	50
2-Chloronaphthalene	ND	ND	ND	50
2-Chlorophenol	ND	ND	ND	50
2-Methylnaphthalene	ND	ND	ND	50
2-Methylphenol	ND	ND	ND	50
2-Nitroaniline	ND	ND	ND	50
2-Nitrophenol	ND	ND	ND	50
3&4-Methylphenol	ND	ND	ND	50
3,3'-Dichlorobenzidine	ND	ND	ND	50
3-Methylcholanthrene	ND	ND	ND	50
3-Nitroaniline	ND	ND	ND	50
4,6-Dinitro-2-methylphenol	ND	ND	ND	50
4-Bromophenyl-phenylether	ND	ND	ND	50
4-Chloro-3-methylphenol	ND	ND	ND	50
4-Chloroaniline	ND	ND	ND	50
4-Chlorophenyl-phenylether	ND	ND	ND	50
4-Nitroaniline	ND	ND	ND	50
4-Nitrophenol	ND	ND	ND	50
4-nitroquinoline-1-oxide	ND	ND	ND	50
Acenaphthene	ND	ND	ND	50
Acenaphthylene	ND	ND	ND	50
Acetophenone	ND	ND	ND	50
Aniline	ND	ND	ND	50
Anthracene	ND	ND	ND	50
Aramite	ND	ND	ND	50
Azobenzene	ND	ND	ND	50
Benzidine	ND	ND	ND	50
Benzo(a)anthracene	ND	ND	ND	50
Benzo(a)pyrene	ND	ND	ND	50
Benzo(b)fluoranthene	ND	ND	ND	50
Benzo(g,h,i)perylene	ND	ND	ND	50
Benzo(k)fluoranthene	ND	ND	ND	50

Benzoic acid	ND	ND	ND	50
Benzyl alcohol	ND	ND	ND	50
Bis(2-Chloroethyl)ether	ND	ND	ND	50
Bis(2-ethylhexyl)phthalate	ND	ND	ND	50
Butylbenzylphthalate	ND	ND	ND	50
Carbazole	ND	ND	ND	50
Chlorobenzilate	ND	ND	ND	50
Chrysene	ND	ND	ND	50
Di-n-butylphthalate	ND	ND	ND	50
Di-n-octyl phthalate	ND	ND	ND	50
Dibenz(a,h)anthracene	ND	ND	ND	50
Dibenzofuran	ND	ND	ND	50
Diethylphthalate	ND	ND	ND	50
Dimethyl phthalate	ND	ND	ND	50
Dinoseb	ND	ND	ND	50
Ethyl methanesulfonate	ND	ND	ND	50
Fluoranthene	ND	ND	ND	50
Fluorene	ND	ND	ND	50
Hexachlorobenzene	ND	ND	ND	50
Hexachlorobutadiene	ND	ND	ND	50
Hexachlorocyclopentadiene	ND	ND	ND	50
Hexachloroethane	ND	ND	ND	50
Hexachloropropene	ND	ND	ND	50
Indeno(1,2,3-cd)pyrene	ND	ND	ND	50
Isodrin	ND	ND	ND	50
Isophorone	ND	ND	ND	50
Isosafrole	ND	ND	ND	50
Kepone	ND	ND	ND	50
Methyl methanesulfonate	ND	ND	ND	50
N-Nitrosodiphenylamine	ND	ND	ND	50
N-nitroso-di-n-propylamine	ND	ND	ND	50
N-nitrosodimethylamine	ND	ND	ND	50
Naphthalene	ND	ND	ND	50
Nitrobenzene	ND	ND	ND	50
Pentachlorobenzene	ND	ND	ND	50
Pentachloronitrobenzene	ND	ND	ND	50
Pentachlorophenol	ND	ND	ND	50
Phenacetin	ND	ND	ND	50
Phenanthrene	ND	ND	ND	50
Phenol	ND	ND	ND	50
Pyrene	ND	ND	ND	50
Pyridine	ND	ND	ND	50
Safrole	ND	ND	ND	50
bis(-2-Chloroethoxy)methane	ND	ND	ND	50

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Contact Phone: 617-312-4712

No: 1-061611-124356-0008

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Container	Preservative	MS/MSD
	0710-0001	SW-01	SVOCs	Surface Water	6/16/2011	10:00	2	1 liter amber	4 C	Y
	0710-0001	SW-01	Pesticides/PCBs	Surface Water	6/16/2011	10:00	2	1 liter amber	4 C	Y
	0710-0001	SW-01	Oil ID	Surface Water	6/16/2011	10:00	2	1 liter amber	4 C	Y
	0710-0001	SW-01	pH	Surface Water	6/16/2011	10:00	2	40 ml VOA	4 C	Y
	0710-0001	SW-01	Metals	Surface Water	6/16/2011	10:00	2	500ml poly	HNO3 pH<2	Y
	0710-0001	SW-01	Cyanide	Surface Water	6/16/2011	10:00	2	500 ml poly	NaOH	Y
	0710-0001	SW-01	VOCs	Surface Water	6/16/2011	10:00	8	40 ml VOA	HCl	Y
	0710-0002	SW-02	SVOCs	Surface Water	6/16/2011	10:30	1	1 liter amber	4 C	N
	0710-0002	SW-02	Pesticides/PCBs	Surface Water	6/16/2011	10:30	1	1 liter amber	4 C	N
	0710-0002	SW-02	Oil ID	Surface Water	6/16/2011	10:30	1	1 liter amber	4 C	N
	0710-0002	SW-02	pH	Surface Water	6/16/2011	10:30	1	40 ml VOA	4 C	N
	0710-0002	SW-02	Metals	Surface Water	6/16/2011	10:30	1	500ml poly	HNO3 pH<2	N
	0710-0002	SW-02	Cyanide	Surface Water	6/16/2011	10:30	1	500 ml poly	NaOH	N
	0710-0002	SW-02	VOCs	Surface Water	6/16/2011	10:30	4	40 ml VOA	HCl	N
	0710-0003	SW-03	SVOCs	Surface Water	6/16/2011	11:00	1	1 liter amber	4 C	N
	0710-0003	SW-03	Pesticides/PCBs	Surface Water	6/16/2011	11:00	1	1 liter amber	4 C	N
	0710-0003	SW-03	Oil ID	Surface Water	6/16/2011	11:00	1	1 liter amber	4 C	N
	0710-0003	SW-03	pH	Surface Water	6/16/2011	11:00	1	40 ml VOA	4 C	N
	0710-0003	SW-03	Metals	Surface Water	6/16/2011	11:00	1	500ml poly	HNO3 pH<2	N
	0710-0003	SW-03	Cyanide	Surface Water	6/16/2011	11:00	1	500 ml poly	NaOH	N

Supral instructions

SAMPLES TRANSFERRED FROM

[illegible]

2011

Former Bendix Property- Greenfield, MA

Lab: OEME

Lab: OEME

[illegible]

Special Instructions:

SAMPLES TRANSFERRED FROM

CHAIN OF CUSTODY #

[illegible]

