EPA
Region 1, New England

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

Laboratory Results

April 01, 2008

Cathy Young - HBR
US EPA New England Region 1
One Congress Street
Boston, MA 02114 - 2023

Project Number: 08030027
Project: Tanker Fire - Chicopee, MA
Analysis: Oil Identification
Analyst: Peter Philbrook PEP 4-1-2008

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, MISOILID3.SOP.

Soil and product samples were extracted using cyclohexane as a solvent. In most cases Pressurized Fluid Extraction is used on soil samples, however if raw product is visible both soil and product samples are extracted using a waste dilution extraction. Aqueous samples are extracted using a separatory funnel technique with dichloromethane. The dichloromethane extract is concentrated and exchanged to cyclohexane. The extracts were analyzed using an Hewlett Packard 5890 gas chromatograph equipped with a J&W DB-1HT 30 meter 0.32mm ID capillary column. Detection was by Flame Ionization Detector.

Date Samples Received by the Laboratory: 03/31/2008

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 617.918.8602

Sincerely, Peter Philbrook 01-APRIL-2008

Peter Philbrook
Chemistry Team Leader, Acting

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Tanker Fire - Chicopee, MA

Oil Identification

Matrix: Surface Water

Field ID	Lab ID	Collected	Extracted	Analysis	Product	Hydrocarbon Range	Qualifier
01ZZ-0001	AA81250	03/28/2000	03/31/2008	03/31/2008	ND	**N/A**	NM

Comments: ND = None Detected N/A = Not Applicable NM = No Match

There was no discernable hydrocarbon pattern associated with this sample.

01ZZ-0002	AA81251	03/28/2008	03/31/2008	03/31/2008	ND	**N/A**	NM

Comments: ND = None Detected N/A = Not Applicable NM = No Match

There was no discernable hydrocarbon pattern associated with this sample.

01ZZ-0003	AA81252	03/28/2008	03/31/2008	03/31/2008	**Gas/Diesel Mix**	**C6-C24**	MATCH

Comments: The sample was an exact match and appears to be a mix of both gasoline and diesel fuel or Gasoline and #2 Fuel Oil. Diesel and #2 Fuel Oil have nearly identical hyrocarbon patterns, the pattern however more closely matched diesel.

01ZZ-0004	AA81253	03/28/2008	03/31/2008	03/31/2008	**Gas/Diesel Mix**	**C6-C24**	MATCH

Comments: The sample was an exact match and appears to be a mix of both gasoline and diesel fuel or Gasoline and #2 Fuel Oil. Diesel and #2 Fuel Oil have nearly identical hyrocarbon patterns, the pattern however more closely matched diesel.

PN 08030027

Sampler Signatures: Timothy Burt

Weston Solutions, Inc. (START III)
EPA Contract No. EP-W-05-042

CHAIN OF CUSTODY RECORD
Site #: 01ZZ (Chicopee Tanker Rollover ER)
Contact Name: John McKeown
Contact Phone: (617) 312-5163

No: 01ZZ-03/28/08-0001

Lab: EPA OEME Laboratory
Hand-Delivered on : 3/31/08

Lab #	Sample #	Location	Analyses	Matrix	Numb Cont	Container	Preservative	Collected	Sample Time	MS/MSD
	01ZZ-0001	SW-01	Volatiles (VOAs)	Surface Water	2	40 ml VOA	4 C	3/28/2008	16:55	
	01ZZ-0001	SW-01	Petroleum Screen	Surface Water	1	40 ml VOA	4 C	3/28/2008	16:55	
	01ZZ-0002	SW-02	Volatiles (VOAs)	Surface Water	2	40 ml VOA	4 C	3/28/2008	17:00	
	01ZZ-0002	SW-02	Petroleum Screen	Surface Water	1	40 ml VOA	4 C	3/28/2008	17:00	
	01ZZ-0003	SW-03	Volatiles (VOAs)	Surface Water	2	40 ml VOA	4 C	3/28/2008	17:12	
	01ZZ-0003	SW-03	Petroleum Screen	Surface Water	1	40 ml VOA	4 C	3/28/2008	17:12	
	01ZZ-0004	SW-04	Volatiles (VOAs)	Surface Water	2	40 ml VOA	4 C	3/28/2008	17:14	
	01ZZ-0004	SW-04	Petroleum Screen	Surface Water	1	40 ml VOA	4 C	3/28/2008	17:14	

Special Instructions: Please email analytical results to mckeown.john@epa.gov

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	Timothy Burt	3/31/08	D. Alfarood	3-31-08	10:00						

Region 1, New England

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

Laboratory Report

April 01, 2008

Cathy Young - HBR
US EPA New England Region 1
One Congress Street
Boston, MA 02114 - 2023

Project Number: 08030027
Project: Tanker Fire - Chicopee, MA
Analysis: VOAs in Water
Analyst: Joseph Montanaro

4/1/08

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-VOAGCMS8.

Samples were analyzed by GC/MS. Samples were introduced to the GC via a Tekmar pre-concentrator and an Archon autosampler. The analysis SOP is based on US EPA Method 8260B, SW-846, Rev 2.0,1996. Method 624, 40CFR Part 136 Appendix A, July 1, 1992, and USEPA CLP SOW for Organic Analysis OLM04.2, 1999.

Date Samples Received by the Laboratory: 3/31/08

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, Peter Pitruzzello 4-1-08
For
DNB

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

Tanker Fire - Chicopee, MA

VOAs in Water

Client Sample ID:	01ZZ-0001	Lab Sample ID:	AA81250
Date of Collection:	3/28/2000	Matrix	Surface Water
Date of Extraction:	3/31/08	Volume Purged:	5 mL
Date of Analysis:	3/31/08	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	6

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	
71-55-6	1,1,1-Trichloroethane	ND	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroeth	ND	1.0	
79-00-5	1,1,2-Trichloroethane	ND	1.0	
75-35-4	1,1-Dichloroethylene	ND	1.0	
563-58-6	1,1-Dichloropropene	ND	1.0	
75-34-3	1,1-dichloroethane	ND	1.0	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	
96-18-4	1,2,3-Trichloropropane	ND	1.0	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	1.0	
106-93-4	1,2-Dibromoethane	ND	1.0	
95-50-1	1,2-Dichlorobenzene	ND	1.0	
107-06-2	1,2-Dichloroethane	ND	1.0	
78-87-5	1,2-Dichloropropane	ND	1.0	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	
541-73-1	1,3-Dichlorobenzene	ND	1.0	
142-28-9	1,3-Dichloropropane	ND	1.0	
106-46-7	1,4-Dichlorobenzene	ND	1.0	
594-20-7	2,2-Dichloropropane	ND	1.0	
78-93-3	2-Butanone (MEK)	ND	1.0	
95-49-8	2-Chlorotoluene	ND	1.0	
591-78-6	2-Hexanone	ND	1.0	
67-64-1	2-Propanone (acetone)	ND	1.0	
106-43-4	4-Chlorotoluene	ND	1.0	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	1.0	
107-13-1	Acrylonitrile	ND	1.0	
71-43-2	Benzene	ND	1.0	
108-86-1	Bromobenzene	ND	1.0	
74-97-5	Bromochloromethane	ND	1.0	
75-27-4	Bromodichloromethane	ND	1.0	
75-25-2	Bromoform	ND	1.0	
74-83-9	Bromomethane	ND	1.0	
75-15-0	Carbon Disulfide	ND	1.0	
56-23-5	Carbon tetrachloride	ND	1.0	
108-90-7	Chlorobenzene	ND	1.0	
75-00-3	Chloroethane	ND	1.0	
67-66-3	Chloroform	ND	1.0	
74-87-3	Chloromethane	ND	1.0	
124-48-1	Dibromochloromethane	ND	1.0	

74-95-3	Dibromomethane	ND	1.0
75-71-8	Dichlorodifluoromethane	ND	1.0
60-29-7	Ethyl Ether	ND	1.0
100-41-4	Ethylbenzene	ND	1.0
87-68-3	Hexachlorobutadiene	ND	1.0
98-82-8	Isopropylbenzene	ND	1.0
108-38-3/106-42-	M/P Xylene	ND	2.0
1634-04-4	Methyl-t-Butyl Ether	ND	1.0
75-09-2	Methylene Chloride	ND	1.0
104-51-8	N-Butylbenzene	ND	1.0
103-65-1	N-Propylbenzene	ND	1.0
91-20-3	Naphthalene	ND	1.0
95-47-6	Ortho Xylene	ND	1.0
99-87-6	Para-Isopropyltoluene	ND	1.0
135-98-8	Sec-Butylbenzene	ND	1.0
100-42-5	Styrene	ND	1.0
98-06-6	Tert-Butylbenzene	ND	1.0
127-18-4	Tetrachloroethylene	ND	1.0
109-99-9	Tetrahydrofuran	ND	1.0
108-88-3	Toluene	ND	1.0
156-60-5	Trans-1,2-Dichloroethylene	ND	1.0
79-01-6	Trichloroethylene	ND	1.0
75-69-4	Trichlorofluoromethane	ND	1.0
108-05-4	Vinyl Acetate	ND	1.0
75-01-4	Vinyl Chloride	ND	1.0
10061-01-5	c-1,3-dichloropropene	ND	1.0
156-59-2	cis-1,2-Dichloroethylene	ND	1.0
10061-02-6	t-1,3-Dichloropropene	ND	1.0

Surrogate Compounds	**Recoveries (%)**	**QC Ranges**
1,2-Dichloroethane-D4	100	74 - 136
Toluene-D8	99	85 - 118
1,4-Bromofluorobenzene	101	78 - 111

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Tanker Fire - Chicopee, MA

Laboratory Blank for SVOAMW

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix	Surface Water
Date of Extraction:	3/31/08	Volume Purged:	5.0 mL
Date of Analysis:	3/31/08	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	6

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	
71-55-6	1,1,1-Trichloroethane	ND	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroeth	ND	1.0	
79-00-5	1,1,2-Trichloroethane	ND	1.0	
75-35-4	1,1-Dichloroethylene	ND	1.0	
563-58-6	1,1-Dichloropropene	ND	1.0	
75-34-3	1,1-dichloroethane	ND	1.0	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	
96-18-4	1,2,3-Trichloropropane	ND	1.0	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	1.0	
106-93-4	1,2-Dibromoethane	ND	1.0	
95-50-1	1,2-Dichlorobenzene	ND	1.0	
107-06-2	1,2-Dichloroethane	ND	1.0	
78-87-5	1,2-Dichloropropane	ND	1.0	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	
541-73-1	1,3-Dichlorobenzene	ND	1.0	
142-28-9	1,3-Dichloropropane	ND	1.0	
106-46-7	1,4-Dichlorobenzene	ND	1.0	
594-20-7	2,2-Dichloropropane	ND	1.0	
78-93-3	2-Butanone (MEK)	ND	1.0	
95-49-8	2-Chlorotoluene	ND	1.0	
591-78-6	2-Hexanone	ND	1.0	
67-64-1	2-Propanone (acetone)	ND	1.0	
106-43-4	4-Chlorotoluene	ND	1.0	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	1.0	
107-13-1	Acrylonitrile	ND	1.0	
71-43-2	Benzene	ND	1.0	
108-86-1	Bromobenzene	ND	1.0	
74-97-5	Bromochloromethane	ND	1.0	
75-27-4	Bromodichloromethane	ND	1.0	
75-25-2	Bromoform	ND	1.0	
74-83-9	Bromomethane	ND	1.0	
75-15-0	Carbon Disulfide	ND	1.0	
56-23-5	Carbon tetrachloride	ND	1.0	
108-90-7	Chlorobenzene	ND	1.0	
75-00-3	Chloroethane	ND	1.0	
67-66-3	Chloroform	ND	1.0	
74-87-3	Chloromethane	ND	1.0	
124-48-1	Dibromochloromethane	ND	1.0	

74-95-3	Dibromomethane	ND	1.0
75-71-8	Dichlorodifluoromethane	ND	1.0
60-29-7	Ethyl Ether	ND	1.0
100-41-4	Ethylbenzene	ND	1.0
87-68-3	Hexachlorobutadiene	ND	1.0
98-82-8	Isopropylbenzene	ND	1.0
108-38-3/106-42-	M/P Xylene	ND	2.0
1634-04-4	Methyl-t-Butyl Ether	ND	1.0
75-09-2	Methylene Chloride	ND	1.0
104-51-8	N-Butylbenzene	ND	1.0
103-65-1	N-Propylbenzene	ND	1.0
91-20-3	Naphthalene	ND	1.0
95-47-6	Ortho Xylene	ND	1.0
99-87-6	Para-Isopropyltoluene	ND	1.0
135-98-8	Sec-Butylbenzene	ND	1.0
100-42-5	Styrene	ND	1.0
98-06-6	Tert-Butylbenzene	ND	1.0
127-18-4	Tetrachloroethylene	ND	1.0
109-99-9	Tetrahydrofuran	ND	1.0
108-88-3	Toluene	ND	1.0
156-60-5	Trans-1,2-Dichloroethylene	ND	1.0
79-01-6	Trichloroethylene	ND	1.0
75-69-4	Trichlorofluoromethane	ND	1.0
108-05-4	Vinyl Acetate	ND	1.0
75-01-4	Vinyl Chloride	ND	1.0
10061-01-5	c-1,3-dichloropropene	ND	1.0
156-59-2	cis-1,2-Dichloroethylene	ND	1.0
10061-02-6	t-1,3-Dichloropropene	ND	1.0

Surrogate Compounds	**Recoveries (%)**	**QC Ranges**
1,2-Dichloroethane-D4	103	74 - 136
Toluene-D8	100	85 - 118
1,4-Bromofluorobenzene	100	78 - 111

Comments: Laboratory blank is associated with all samples in this project.

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Tanker Fire - Chicopee, MA

VOAs in Water

Client Sample ID:	01ZZ-0002	Lab Sample ID:	AA81251
Date of Collection:	3/28/2008	Matrix	Surface Water
Date of Extraction:	3/31/08	Volume Purged:	5 mL
Date of Analysis:	3/31/08	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	6

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	
71-55-6	1,1,1-Trichloroethane	ND	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroeth	ND	1.0	
79-00-5	1,1,2-Trichloroethane	ND	1.0	
75-35-4	1,1-Dichloroethylene	ND	1.0	
563-58-6	1,1-Dichloropropene	ND	1.0	
75-34-3	1,1-dichloroethane	ND	1.0	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	
96-18-4	1,2,3-Trichloropropane	ND	1.0	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	1.0	
106-93-4	1,2-Dibromoethane	ND	1.0	
95-50-1	1,2-Dichlorobenzene	ND	1.0	
107-06-2	1,2-Dichloroethane	ND	1.0	
78-87-5	1,2-Dichloropropane	ND	1.0	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	
541-73-1	1,3-Dichlorobenzene	ND	1.0	
142-28-9	1,3-Dichloropropane	ND	1.0	
106-46-7	1,4-Dichlorobenzene	ND	1.0	
594-20-7	2,2-Dichloropropane	ND	1.0	
78-93-3	2-Butanone (MEK)	ND	1.0	
95-49-8	2-Chlorotoluene	ND	1.0	
591-78-6	2-Hexanone	ND	1.0	
67-64-1	2-Propanone (acetone)	ND	1.0	
106-43-4	4-Chlorotoluene	ND	1.0	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	1.0	
107-13-1	Acrylonitrile	ND	1.0	
71-43-2	Benzene	ND	1.0	
108-86-1	Bromobenzene	ND	1.0	
74-97-5	Bromochloromethane	ND	1.0	
75-27-4	Bromodichloromethane	ND	1.0	
75-25-2	Bromoform	ND	1.0	
74-83-9	Bromomethane	ND	1.0	
75-15-0	Carbon Disulfide	ND	1.0	
56-23-5	Carbon tetrachloride	ND	1.0	
108-90-7	Chlorobenzene	ND	1.0	
75-00-3	Chloroethane	ND	1.0	
67-66-3	Chloroform	ND	1.0	
74-87-3	Chloromethane	ND	1.0	
124-48-1	Dibromochloromethane	ND	1.0	

74-95-3	Dibromomethane	ND	1.0
75-71-8	Dichlorodifluoromethane	ND	1.0
60-29-7	Ethyl Ether	ND	1.0
100-41-4	Ethylbenzene	ND	1.0
87-68-3	Hexachlorobutadiene	ND	1.0
98-82-8	Isopropylbenzene	ND	1.0
108-38-3/106-42-	M/P Xylene	ND	2.0
1634-04-4	Methyl-t-Butyl Ether	ND	1.0
75-09-2	Methylene Chloride	ND	1.0
104-51-8	N-Butylbenzene	ND	1.0
103-65-1	N-Propylbenzene	ND	1.0
91-20-3	Naphthalene	ND	1.0
95-47-6	Ortho Xylene	ND	1.0
99-87-6	Para-Isopropyltoluene	ND	1.0
135-98-8	Sec-Butylbenzene	ND	1.0
100-42-5	Styrene	ND	1.0
98-06-6	Tert-Butylbenzene	ND	1.0
127-18-4	Tetrachloroethylene	ND	1.0
109-99-9	Tetrahydrofuran	ND	1.0
108-88-3	Toluene	ND	1.0
156-60-5	Trans-1,2-Dichloroethylene	ND	1.0
79-01-6	Trichloroethylene	ND	1.0
75-69-4	Trichlorofluoromethane	ND	1.0
108-05-4	Vinyl Acetate	ND	1.0
75-01-4	Vinyl Chloride	ND	1.0
10061-01-5	c-1,3-dichloropropene	ND	1.0
156-59-2	cis-1,2-Dichloroethylene	ND	1.0
10061-02-6	t-1,3-Dichloropropene	ND	1.0

Surrogate Compounds	**Recoveries (%)**	**QC Ranges**
1,2-Dichloroethane-D4	101	74 - 136
Toluene-D8	98	85 - 118
1,4-Bromofluorobenzene	100	78 - 111

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Tanker Fire - Chicopee, MA

VOAs in Water

Client Sample ID:	01ZZ-0003	Lab Sample ID:	AA81252
Date of Collection:	3/28/2008	Matrix	Surface Water
Date of Extraction:	3/31/08	Volume Purged:	5 mL
Date of Analysis:	3/31/08	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	6

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	
71-55-6	1,1,1-Trichloroethane	ND	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroeth	ND	1.0	
79-00-5	1,1,2-Trichloroethane	ND	1.0	
75-35-4	1,1-Dichloroethylene	ND	1.0	
563-58-6	1,1-Dichloropropene	ND	1.0	
75-34-3	1,1-dichloroethane	ND	1.0	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	
96-18-4	1,2,3-Trichloropropane	ND	1.0	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	
95-63-6	1,2,4-Trimethylbenzene	**97**	1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	1.0	
106-93-4	1,2-Dibromoethane	ND	1.0	
95-50-1	1,2-Dichlorobenzene	ND	1.0	
107-06-2	1,2-Dichloroethane	ND	1.0	
78-87-5	1,2-Dichloropropane	ND	1.0	
108-67-8	1,3,5-Trimethylbenzene	**26**	1.0	
541-73-1	1,3-Dichlorobenzene	ND	1.0	
142-28-9	1,3-Dichloropropane	ND	1.0	
106-46-7	1,4-Dichlorobenzene	ND	1.0	
594-20-7	2,2-Dichloropropane	ND	1.0	
78-93-3	2-Butanone (MEK)	ND	1.0	
95-49-8	2-Chlorotoluene	ND	1.0	
591-78-6	2-Hexanone	ND	1.0	
67-64-1	2-Propanone (acetone)	ND	1.0	
106-43-4	4-Chlorotoluene	ND	1.0	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	1.0	
107-13-1	Acrylonitrile	ND	1.0	
71-43-2	Benzene	**1.1**	1.0	
108-86-1	Bromobenzene	ND	1.0	
74-97-5	Bromochloromethane	ND	1.0	
75-27-4	Bromodichloromethane	ND	1.0	
75-25-2	Bromoform	ND	1.0	
74-83-9	Bromomethane	ND	1.0	
75-15-0	Carbon Disulfide	ND	1.0	
56-23-5	Carbon tetrachloride	ND	1.0	
108-90-7	Chlorobenzene	ND	1.0	
75-00-3	Chloroethane	ND	1.0	
67-66-3	Chloroform	ND	1.0	
74-87-3	Chloromethane	ND	1.0	
124-48-1	Dibromochloromethane	ND	1.0	

74-95-3	Dibromomethane	ND	1.0
75-71-8	Dichlorodifluoromethane	ND	1.0
60-29-7	Ethyl Ether	ND	1.0
100-41-4	Ethylbenzene	**19**	1.0
87-68-3	Hexachlorobutadiene	ND	1.0
98-82-8	Isopropylbenzene	**2.5**	1.0
108-38-3/106-42-	M/P Xylene	**78**	2.0
1634-04-4	Methyl-t-Butyl Ether	ND	1.0
75-09-2	Methylene Chloride	ND	1.0
104-51-8	N-Butylbenzene	**6.2**	1.0
103-65-1	N-Propylbenzene	**9.6**	1.0
91-20-3	Naphthalene	**51**	1.0
95-47-6	Ortho Xylene	**37**	1.0
99-87-6	Para-Isopropyltoluene	ND	1.0
135-98-8	Sec-Butylbenzene	ND	1.0
100-42-5	Styrene	ND	1.0
98-06-6	Tert-Butylbenzene	ND	1.0
127-18-4	Tetrachloroethylene	ND	1.0
109-99-9	Tetrahydrofuran	ND	1.0
108-88-3	Toluene	**27**	1.0
156-60-5	Trans-1,2-Dichloroethylene	ND	1.0
79-01-6	Trichloroethylene	ND	1.0
75-69-4	Trichlorofluoromethane	ND	1.0
108-05-4	Vinyl Acetate	ND	1.0
75-01-4	Vinyl Chloride	ND	1.0
10061-01-5	c-1,3-dichloropropene	ND	1.0
156-59-2	cis-1,2-Dichloroethylene	ND	1.0
10061-02-6	t-1,3-Dichloropropene	ND	1.0

Surrogate Compounds	**Recoveries (%)**	**QC Ranges**
1,2-Dichloroethane-D4	100	74 - 136
Toluene-D8	99	85 - 118
1,4-Bromofluorobenzene	100	78 - 111

Comments: Tentatively Identified Compounds

Compound	Observed Concentration (ug/L)	Qualifier
1-ethyl-3-methylbenzene	43	J
1-ethyl-2-methylbenzene	12	J
Indene	10	J
2-ethyl-1,3-dimethylbenzene	13	J
1,2,4,5-tetramethylbenzene	16	J
2,3-dihydro-4-methyl-1H-indane	10	J
2,3-dihydro-5-methyl-1H-indane	20	J
1,2,3,4-tetrahydronaphthalene	12	J
1-methylnaphthalene	15	J

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Tanker Fire - Chicopee, MA

VOAs in Water

Client Sample ID:	01ZZ-0004	Lab Sample ID:	AA81253
Date of Collection:	3/28/2008	Matrix	Surface Water
Date of Extraction:	3/31/08	Volume Purged:	5 mL
Date of Analysis:	3/31/08	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	10
Wet Weight Extracted:	N/A	pH:	6

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	10	
71-55-6	1,1,1-Trichloroethane	ND	10	
79-34-5	1,1,2,2-Tetrachloroethane	ND	10	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroeth	ND	10	
79-00-5	1,1,2-Trichloroethane	ND	10	
75-35-4	1,1-Dichloroethylene	ND	10	
563-58-6	1,1-Dichloropropene	ND	10	
75-34-3	1,1-dichloroethane	ND	10	
87-61-6	1,2,3-Trichlorobenzene	ND	10	
96-18-4	1,2,3-Trichloropropane	ND	10	
120-82-1	1,2,4-Trichlorobenzene	ND	10	
95-63-6	1,2,4-Trimethylbenzene	**180**	10	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	10	
106-93-4	1,2-Dibromoethane	ND	10	
95-50-1	1,2-Dichlorobenzene	ND	10	
107-06-2	1,2-Dichloroethane	ND	10	
78-87-5	1,2-Dichloropropane	ND	10	
108-67-8	1,3,5-Trimethylbenzene	**46**	10	
541-73-1	1,3-Dichlorobenzene	ND	10	
142-28-9	1,3-Dichloropropane	ND	10	
106-46-7	1,4-Dichlorobenzene	ND	10	
594-20-7	2,2-Dichloropropane	ND	10	
78-93-3	2-Butanone (MEK)	ND	10	
95-49-8	2-Chlorotoluene	ND	10	
591-78-6	2-Hexanone	ND	10	
67-64-1	2-Propanone (acetone)	ND	10	
106-43-4	4-Chlorotoluene	ND	10	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	10	
107-13-1	Acrylonitrile	ND	10	
71-43-2	Benzene	ND	10	
108-86-1	Bromobenzene	ND	10	
74-97-5	Bromochloromethane	ND	10	
75-27-4	Bromodichloromethane	ND	10	
75-25-2	Bromoform	ND	10	
74-83-9	Bromomethane	ND	10	
75-15-0	Carbon Disulfide	ND	10	
56-23-5	Carbon tetrachloride	ND	10	
108-90-7	Chlorobenzene	ND	10	
75-00-3	Chloroethane	ND	10	
67-66-3	Chloroform	ND	10	
74-87-3	Chloromethane	ND	10	
124-48-1	Dibromochloromethane	ND	10	

74-95-3	Dibromomethane	ND	10
75-71-8	Dichlorodifluoromethane	ND	10
60-29-7	Ethyl Ether	ND	10
100-41-4	Ethylbenzene	**62**	10
87-68-3	Hexachlorobutadiene	ND	10
98-82-8	Isopropylbenzene	ND	10
108-38-3/106-42-	M/P Xylene	**250**	20
1634-04-4	Methyl-t-Butyl Ether	ND	10
75-09-2	Methylene Chloride	ND	10
104-51-8	N-Butylbenzene	**10**	10
103-65-1	N-Propylbenzene	**20**	10
91-20-3	Naphthalene	**73**	10
95-47-6	Ortho Xylene	**110**	10
99-87-6	Para-Isopropyltoluene	ND	10
135-98-8	Sec-Butylbenzene	ND	10
100-42-5	Styrene	ND	10
98-06-6	Tert-Butylbenzene	ND	10
127-18-4	Tetrachloroethylene	ND	10
109-99-9	Tetrahydrofuran	ND	10
108-88-3	Toluene	**75**	10
156-60-5	Trans-1,2-Dichloroethylene	ND	10
79-01-6	Trichloroethylene	ND	10
75-69-4	Trichlorofluoromethane	ND	10
108-05-4	Vinyl Acetate	ND	10
75-01-4	Vinyl Chloride	ND	10
10061-01-5	c-1,3-dichloropropene	ND	10
156-59-2	cis-1,2-Dichloroethylene	ND	10
10061-02-6	t-1,3-Dichloropropene	ND	10

Surrogate Compounds	**Recoveries (%)**	**QC Ranges**
1,2-Dichloroethane-D4	102	74 - 136
Toluene-D8	100	85 - 118
1,4-Bromofluorobenzene	100	78 - 111

Comments: Tentatively Identified Compounds

Compound	Observed Concentration (ug/L)	Qualifier
1-ethyl-3-methylbenzene	120	J

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Laboratory Duplicate Results

Sample ID: AA81250

PARAMETER	SAMPLE RESULT ug/L	SAMPLE DUPLICATE RESULT ug/L	PRECISION RPD %	QC LIMITS
1,1,1,2-Tetrachloroethane	ND	ND	ND	30
1,1,1-Trichloroethane	ND	ND	ND	30
1,1,2,2-Tetrachloroethane	ND	ND	ND	30
1,1,2-Trichloro-1,2,2-Trifluoroeth	ND	ND	ND	30
1,1,2-Trichloroethane	ND	ND	ND	30
1,1-Dichloroethylene	ND	ND	ND	30
1,1-Dichloropropene	ND	ND	ND	30
1,1-dichloroethane	ND	ND	ND	30
1,2,3-Trichlorobenzene	ND	ND	ND	30
1,2,3-Trichloropropane	ND	ND	ND	30
1,2,4-Trichlorobenzene	ND	ND	ND	30
1,2,4-Trimethylbenzene	ND	ND	ND	30
1,2-Dibromo-3-Chloropropane	ND	ND	ND	30
1,2-Dibromoethane	ND	ND	ND	30
1,2-Dichlorobenzene	ND	ND	ND	30
1,2-Dichloroethane	ND	ND	ND	30
1,2-Dichloropropane	ND	ND	ND	30
1,3,5-Trimethylbenzene	ND	ND	ND	30
1,3-Dichlorobenzene	ND	ND	ND	30
1,3-Dichloropropane	ND	ND	ND	30
1,4-Dichlorobenzene	ND	ND	ND	30
2,2-Dichloropropane	ND	ND	ND	30
2-Butanone (MEK)	ND	ND	ND	30
2-Chlorotoluene	ND	ND	ND	30
2-Hexanone	ND	ND	ND	30
2-Propanone (acetone)	ND	ND	ND	30
4-Chlorotoluene	ND	ND	ND	30
4-Methyl-2-Pentanone(MIBK)	ND	ND	ND	30
Acrylonitrile	ND	ND	ND	30
Benzene	ND	ND	ND	30
Bromobenzene	ND	ND	ND	30
Bromochloromethane	ND	ND	ND	30
Bromodichloromethane	ND	ND	ND	30
Bromoform	ND	ND	ND	30
Bromomethane	ND	ND	ND	30
Carbon Disulfide	ND	ND	ND	30
Carbon tetrachloride	ND	ND	ND	30
Chlorobenzene	ND	ND	ND	30
Chloroethane	ND	ND	ND	30
Chloroform	ND	ND	ND	30
Chloromethane	ND	ND	ND	30
Dibromochloromethane	ND	ND	ND	30
Dibromomethane	ND	ND	ND	30
Dichlorodifluoromethane	ND	ND	ND	30
Ethyl Ether	ND	ND	ND	30
Ethylbenzene	ND	ND	ND	30
Hexachlorobutadiene	ND	ND	ND	30
Isopropylbenzene	ND	ND	ND	30
M/P Xylene	ND	ND	ND	30

Methyl-t-Butyl Ether	ND	ND	ND	30
Methylene Chloride	ND	ND	ND	30
N-Butylbenzene	ND	ND	ND	30
N-Propylbenzene	ND	ND	ND	30
Naphthalene	ND	ND	ND	30
Ortho Xylene	ND	ND	ND	30
Para-Isopropyltoluene	ND	ND	ND	30
Sec-Butylbenzene	ND	ND	ND	30
Styrene	ND	ND	ND	30
Tert-Butylbenzene	ND	ND	ND	30
Tetrachloroethylene	ND	ND	ND	30
Tetrahydrofuran	ND	ND	ND	30
Toluene	ND	ND	ND	30
Trans-1,2-Dichloroethylene	ND	ND	ND	30
Trichloroethylene	ND	ND	ND	30
Trichlorofluoromethane	ND	ND	ND	30
Vinyl Acetate	ND	ND	ND	30
Vinyl Chloride	ND	ND	ND	30
c-1,3-dichloropropene	ND	ND	ND	30
cis-1,2-Dichloroethylene	ND	ND	ND	30
t-1,3-Dichloropropene	ND	ND	ND	30

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

LABORATORY FORTIFIED BLANK (LFB) AND DUPLICATE (LFB Dup) RECOVERY

Tanker Fire - Chicopee, MA

COMPOUND	SPIKE ADDED ug/mL	LFB CONCENTRATION ug/mL	LFB RECOVERY %	QC LIMITS (% REC)
1,1,1,2-Tetrachloroethane	20	20	100	79 - 136
1,1,1-Trichloroethane	20	21	105	75 - 146
1,1,2,2-Tetrachloroethane	20	20	100	62 - 141
1,1,2-Trichloro-1,2,2-Trifluoroeth	20	19	95	56 - 130
1,1,2-Trichloroethane	20	20	100	75 - 138
1,1-Dichloroethylene	20	21	105	75 - 136
1,1-Dichloropropene	20	20	100	77 - 137
1,1-dichloroethane	20	20	100	76 - 142
1,2,3-Trichlorobenzene	20	18	90	64 - 143
1,2,3-Trichloropropane	20	22	110	66 - 133
1,2,4-Trichlorobenzene	20	19	95	80 - 131
1,2,4-Trimethylbenzene	20	20	100	74 - 155
1,2-Dibromo-3-Chloropropane	20	19	95	37 - 139
1,2-Dibromoethane	20	20	100	72 - 135
1,2-Dichlorobenzene	20	20	100	85 - 128
1,2-Dichloroethane	20	21	105	74 - 138
1,2-Dichloropropane	20	20	100	83 - 124
1,3,5-Trimethylbenzene	20	20	100	80 - 145
1,3-Dichlorobenzene	20	20	100	84 - 130
1,3-Dichloropropane	20	20	100	77 - 129
1,4-Dichlorobenzene	20	20	100	82 - 128
2,2-Dichloropropane	20	22	110	32 - 171
2-Butanone (MEK)	20	17	85	38 - 179
2-Chlorotoluene	20	20	100	78 - 134
2-Hexanone	20	19	95	45 - 158
2-Propanone (acetone)	20	12	60	14 - 209
4-Chlorotoluene	20	20	100	75 - 144
4-Methyl-2-Pentanone(MIBK)	20	21	105	40 - 144
Acrylonitrile	20	19	95	52 - 154
Benzene	20	20	100	83 - 130
Bromobenzene	20	20	100	85 - 126
Bromochloromethane	20	20	100	69 - 137
Bromodichloromethane	20	20	100	70 - 143
Bromoform	20	19	95	51 - 136
Bromomethane	20	18	90	65 - 140
Carbon Disulfide	20	19	95	68 - 140
Carbon tetrachloride	20	21	105	70 - 144
Chlorobenzene	20	20	100	84 - 131
Chloroethane	20	20	100	70 - 134
Chloroform	20	20	100	76 - 141
Chloromethane	20	23	115	63 - 123
Dibromochloromethane	20	21	105	39 - 154
Dibromomethane	20	20	100	79 - 124
Dichlorodifluoromethane	20	26	130	37 - 117

Ethyl Ether	20	19	95	67 - 140
Ethylbenzene	20	20	100	81 - 133
Hexachlorobutadiene	20	17	85	68 - 146
Isopropylbenzene	20	23	115	78 - 137
M/P Xylene	40	41	103	68 - 155
Methyl-t-Butyl Ether	20	20	100	63 - 144
Methylene Chloride	20	20	100	75 - 140
N-Butylbenzene	20	20	100	69 - 147
N-Propylbenzene	20	20	100	76 - 138
Naphthalene	20	20	100	53 - 155
Ortho Xylene	20	20	100	85 - 135
Para-Isopropyltoluene	20	20	100	77 - 141
Sec-Butylbenzene	20	20	100	80 - 141
Styrene	20	20	100	82 - 139
Tert-Butylbenzene	20	20	100	75 - 144
Tetrachloroethylene	20	20	100	32 - 173
Tetrahydrofuran	20	22	110	47 - 149
Toluene	20	20	100	85 - 134
Trans-1,2-Dichloroethylene	20	25	125	80 - 138
Trichloroethylene	20	20	100	76 - 135
Trichlorofluoromethane	20	22	110	60 - 149
Vinyl Acetate	20	21	105	38 - 187
Vinyl Chloride	20	24	120	66 - 133
c-1,3-dichloropropene	20	21	105	68 - 149
cis-1,2-Dichloroethylene	20	20	100	76 - 143
t-1,3-Dichloropropene	20	21	105	62 - 160

COMPOUND	LFB Dup CONCENTRATION ug/L	LFB Dup RECOVERY %	RPD %	QC LIMITS RPD
1,1,1,2-Tetrachloroethane	19	95	6	40
1,1,1-Trichloroethane	19	97	8	16
1,1,2,2-Tetrachloroethane	19	93	7	40
1,1,2-Trichloro-1,2,2-Trifluo	17	87	9	40
1,1,2-Trichloroethane	19	95	6	40
1,1-Dichloroethylene	20	99	6	35
1,1-Dichloropropene	19	93	7	40
1,1-dichloroethane	20	98	2	40
1,2,3-Trichlorobenzene	18	90	1	40
1,2,3-Trichloropropane	21	105	5	40
1,2,4-Trichlorobenzene	18	89	7	40
1,2,4-Trimethylbenzene	19	95	5	40
1,2-Dibromo-3-Chloropropa	19	93	3	40
1,2-Dibromoethane	19	95	6	40
1,2-Dichlorobenzene	18	92	8	40
1,2-Dichloroethane	20	98	7	23
1,2-Dichloropropane	20	98	2	40
1,3,5-Trimethylbenzene	19	94	6	40
1,3-Dichlorobenzene	18	92	9	40
1,3-Dichloropropane	19	96	4	40
1,4-Dichlorobenzene	19	93	7	21
2,2-Dichloropropane	17	84	27	40
2-Butanone (MEK)	16	81	5	40
2-Chlorotoluene	19	93	7	40
2-Hexanone	18	92	4	40
2-Propanone (acetone)	12	60	1	40
4-Chlorotoluene	19	94	6	40
4-Methyl-2-Pentanone(MIB	20	99	6	40
Acrylonitrile	19	97	2	40
Benzene	19	96	5	14
Bromobenzene	19	94	6	40
Bromochloromethane	19	94	6	40
Bromodichloromethane	19	94	6	21
Bromoform	18	89	7	40
Bromomethane	18	88	2	40
Carbon Disulfide	18	89	7	40
Carbon tetrachloride	19	96	10	19
Chlorobenzene	19	97	4	40
Chloroethane	20	98	3	40
Chloroform	19	96	5	16
Chloromethane	21	107	7	40
Dibromochloromethane	19	96	10	36
Dibromomethane	19	94	6	40
Dichlorodifluoromethane	23	115	13	40
Ethyl Ether	19	94	2	40
Ethylbenzene	19	95	5	40
Hexachlorobutadiene	17	85	1	40
Isopropylbenzene	22	109	5	40
M/P Xylene	38	96	7	40
Methyl-t-Butyl Ether	20	98	3	40
Methylene Chloride	19	97	3	40
N-Butylbenzene	18	89	12	40

N-Propylbenzene	19	94	7	40
Naphthalene	19	95	5	40
Ortho Xylene	19	96	5	40
Para-Isopropyltoluene	19	95	5	40
Sec-Butylbenzene	19	93	8	40
Styrene	19	96	5	40
Tert-Butylbenzene	18	92	8	40
Tetrachloroethylene	21	106	6	40
Tetrahydrofuran	19	95	15	40
Toluene	19	96	5	40
Trans-1,2-Dichloroethylene	19	96	26	40
Trichloroethylene	19	97	4	22
Trichlorofluoromethane	20	99	11	40
Vinyl Acetate	19	93	13	40
Vinyl Chloride	24	120	0	19
c-1,3-dichloropropene	19	95	10	40
cis-1,2-Dichloroethylene	19	97	3	40
t-1,3-Dichloropropene	19	96	9	40

Samples in Batch: AA81250, AA81251, AA81252, AA81253

Comments: The percent recoveries for dichlorodifluoromethane did not meet the acceptable QC criteria in the LFB/LFB duplicate studies