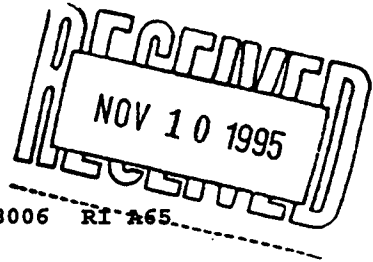


*Groundwater*

ALPHA ANALYTICAL LABORATORIES

Eight Walkup Drive  
Westborough, Massachusetts 01581-1019  
(508) 898-9220



MA 086 NH 198958-A CT PH-0574 NY 11148 NC 320 SC 88006 RI A65

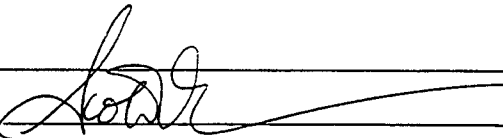
CERTIFICATE OF ANALYSIS

Client: ERM-New England Laboratory Job Number: L9508186  
Address: 205 Portland Street Invoice Number: 78661  
Boston, MA 02114 Date Received: 25-OCT-95  
Attn: Chris McKenna Date Reported: 08-NOV-95  
Project Number: 143-40 Delivery Method: Alpha  
Site: Raytheon

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ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L9508186-01	MW-1	Wayland, MA
L9508186-02	MW-2	Wayland, MA
L9508186-03	MW-3	Wayland, MA
L9508186-04	MW-4	Wayland, MA
L9508186-05	MW-5	Wayland, MA
L9508186-06	MW-6	Wayland, MA
L9508186-07	MW-7	Wayland, MA
L9508186-08	MW-8	Wayland, MA
L9508186-09	MW-9	Wayland, MA
L9508186-10	RAY-01	Wayland, MA
L9508186-11	TRIP BLANK	Wayland, MA

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Authorized by: 

Scott McLean - Laboratory Director



**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L9508186-01  
MW-1

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	I
Volatile Organics by GC/MS				1	8260	02-Nov	DE
Methylene chloride	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	1.5				
Chloroform	ND	ug/l	1.5				
Carbon tetrachloride	ND	ug/l	1.0				
1,2-Dichloropropane	ND	ug/l	3.5				
Dibromochloromethane	ND	ug/l	1.0				
1,1,2-Trichloroethane	ND	ug/l	1.5				
2-Chloroethylvinyl ether	ND	ug/l	10.				
Tetrachloroethene	ND	ug/l	1.5				
Chlorobenzene	ND	ug/l	3.5				
Trichlorofluoromethane	ND	ug/l	5.0				
1,2-Dichloroethane	ND	ug/l	1.5				
1,1,1-Trichloroethane	ND	ug/l	1.0				
Bromodichloromethane	ND	ug/l	1.0				
trans-1,3-Dichloropropene	ND	ug/l	1.5				
cis-1,3-Dichloropropene	ND	ug/l	1.0				
Bromoform	ND	ug/l	1.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0				
Benzene	ND	ug/l	1.0				
Toluene	ND	ug/l	1.5				
Ethylbenzene	ND	ug/l	1.0				
Chloromethane	ND	ug/l	10.				
Bromomethane	ND	ug/l	2.0				
Vinyl chloride	ND	ug/l	3.5				
Chloroethane	ND	ug/l	2.0				
1,1-Dichloroethene	ND	ug/l	1.5				
trans-1,2-Dichloroethene	ND	ug/l	1.5				
Trichloroethene	ND	ug/l	1.0				
1,2-Dichlorobenzene	ND	ug/l	10.				
1,3-Dichlorobenzene	ND	ug/l	10.				
1,4-Dichlorobenzene	ND	ug/l	10.				
Methyl tert butyl ether	ND	ug/l	10.				
Xylenes	ND	ug/l	1.0				
cis-1,2-Dichloroethene	ND	ug/l	1.0				
Dibromomethane	ND	ug/l	10.				
1,4-Dichlorobutane	ND	ug/l	10.				
Iodomethane	ND	ug/l	10.				
1,2,3-Trichloropropane	ND	ug/l	10.				
Styrene	ND	ug/l	1.0				
Dichlorodifluoromethane	ND	ug/l	10.				
Acetone	ND	ug/l	10.				
Carbon Disulfide	ND	ug/l	10.				
2-Butanone	ND	ug/l	4.5				
Vinyl Acetate	ND	ug/l	10.				
4-Methyl-2-pentanone	ND	ug/l	10.				
2-Hexanone	ND	ug/l	10.				
Ethyl methacrylate	ND	ug/l	10.				
Acrolein	ND	ug/l	25.				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L9508186-01  
MW-1

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Volatile Organics by GC/MS continued				1	8260	02-Nov	DB
Acrylonitrile	ND	ug/l	10.				
Bromochloromethane	ND	ug/l	1.0				
2,2-Dichloropropane	ND	ug/l	1.0				
1,2-Dibromoethane	ND	ug/l	1.0				
1,3-Dichloropropane	ND	ug/l	1.0				
1,1,1,2-Tetrachloroethane	ND	ug/l	1.0				
Bromobenzene	ND	ug/l	1.0				
n-Butylbenzene	ND	ug/l	1.0				
sec-Butylbenzene	ND	ug/l	1.0				
tert-Butylbenzene	ND	ug/l	1.0				
o-Chlorotoluene	ND	ug/l	1.0				
p-Chlorotoluene	ND	ug/l	1.0				
1,2-Dibromo-3-chloropropane	ND	ug/l	1.0				
Hexachlorobutadiene	ND	ug/l	1.0				
Isopropylbenzene	ND	ug/l	1.0				
p-Isopropyltoluene	ND	ug/l	1.0				
Naphthalene	ND	ug/l	1.0				
n-Propylbenzene	ND	ug/l	1.0				
1,2,3-Trichlorobenzene	ND	ug/l	1.0				
1,2,4-Trichlorobenzene	ND	ug/l	1.0				
1,3,5-Trimethylbenzene	ND	ug/l	1.0				
1,2,4-Trimethylbenzene	ND	ug/l	1.0				
trans-1,4-Dichloro-2-butene	ND	ug/l	1.0				
Ethyl ether	ND	ug/l	25.				
SURROGATE RECOVERY							
Toluene-d8	93.0	%					
4-Bromofluorobenzene	96.0	%					
Dibromofluoromethane	99.0	%					

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L9508186-01  
MW-1

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Semi-volatile Organics by GC/MS				1	8270	26-Oct 26-Oct	IG
Acenaphthene	ND	ug/l	2.4				
Benzidine	ND	ug/l	20.				
1,2,4-Trichlorobenzene	ND	ug/l	2.9				
Hexachlorobenzene	ND	ug/l	2.4				
Bis(2-chloroethyl) ether	ND	ug/l	2.5				
2-Chloronaphthalene	ND	ug/l	2.5				
1,2-Dichlorobenzene	ND	ug/l	2.4				
1,3-Dichlorobenzene	ND	ug/l	2.8				
1,4-Dichlorobenzene	ND	ug/l	1.9				
3,3'-Dichlorobenzidine	ND	ug/l	5.5				
2,4-Dinitrotoluene	ND	ug/l	3.1				
2,6-Dinitrotoluene	ND	ug/l	2.4				
Azobenzene	ND	ug/l	2.3				
Fluoranthene	ND	ug/l	2.4				
4-Chlorophenyl phenyl ether	ND	ug/l	2.5				
4-Bromophenyl phenyl ether	ND	ug/l	2.4				
Bis(2-chloroisopropyl) ether	ND	ug/l	1.7				
Bis(2-chloroethoxy) methane	ND	ug/l	1.8				
Hexachlorobutadiene	ND	ug/l	6.7				
Hexachlorocyclopentadiene	ND	ug/l	6.3				
Hexachloroethane	ND	ug/l	4.2				
Isophorone	ND	ug/l	2.0				
Naphthalene	ND	ug/l	1.8				
Nitrobenzene	ND	ug/l	1.6				
NitrosoDiphenylAmine (NDPA) /DPA	ND	ug/l	2.1				
n-Nitrosodi-n-propylamine	ND	ug/l	2.2				
Bis(2-ethylhexyl) phthalate	ND	ug/l	7.6				
Butyl benzyl phthalate	ND	ug/l	1.7				
Di-n-butylphthalate	ND	ug/l	2.3				
Di-n-octylphthalate	ND	ug/l	2.0				
Diethyl phthalate	ND	ug/l	4.2				
Dimethyl phthalate	ND	ug/l	4.2				
Benzo (a) anthracene	ND	ug/l	2.6				
Benzo (a) pyrene	ND	ug/l	3.2				
Benzo (b) fluoranthene	ND	ug/l	2.9				
Benzo (k) fluoranthene	ND	ug/l	2.9				
Chrysene	ND	ug/l	2.6				
Acenaphthylene	ND	ug/l	2.2				
Anthracene	ND	ug/l	2.1				
Benzo (ghi) perylene	ND	ug/l	4.2				
Fluorene	ND	ug/l	2.3				
Phenanthrene	ND	ug/l	2.2				
Dibenzo (a, h) anthracene	ND	ug/l	4.1				
Indeno (1, 2, 3-cd) pyrene	ND	ug/l	3.9				
Pyrene	ND	ug/l	2.4				
Aniline	ND	ug/l	8.4				
4-Chloroaniline	ND	ug/l	3.4				
1-Methylnaphthalene	ND	ug/l	5.9				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L9508186-01  
MW-1

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Semi-volatile Organics by GC/MS continued				1	8270	26-Oct 26-Oct	IG
2-Nitroaniline	ND	ug/l	2.7				
3-Nitroaniline	ND	ug/l	5.0				
4-Nitroaniline	ND	ug/l	4.9				
Dibenzofuran	ND	ug/l	1.7				
a, a-Dimethylphenethylamine	ND	ug/l	38.				
Hexachloropropene	ND	ug/l	17.				
Nitrosodi-n-butylamine	ND	ug/l	4.1				
2-Methylnaphthalene	ND	ug/l	1.5				
Tetrachlorobenzene	ND	ug/l	10.				
Pentachlorobenzene	ND	ug/l	11.				
a-Naphthalamine	ND	ug/l	17.				
b-Naphthalamine	ND	ug/l	7.8				
Acetophenetidide	ND	ug/l	8.4				
Dimethoate	ND	ug/l	17.				
4-Aminobiphenyl	ND	ug/l	8.4				
Pentachloronitrobenzene	ND	ug/l	3.3				
Isodrin	ND	ug/l	3.2				
p-Dimethylaminoazobenzene	ND	ug/l	6.0				
Chlorobenzilate	ND	ug/l	13.				
Bis (2-ethylhexyl) adipate	ND	ug/l	2.8				
3-Methylcholanthrene	ND	ug/l	17.				
Ethylmethanesulfonate	ND	ug/l	13.				
Acetophenone	ND	ug/l	3.9				
Nitrosodipiperidine	ND	ug/l	17.				
7,12-Dimethylbenz (a) anthracene	ND	ug/l	20.				
n-Nitrosodimethylamine	ND	ug/l	34.				
2,4,6-Trichlorophenol	ND	ug/l	1.8				
p-Chloro-m-cresol	ND	ug/l	2.5				
2-Chlorophenol	ND	ug/l	2.8				
2,4-Dichlorophenol	ND	ug/l	8.4				
2,4-Dimethylphenol	ND	ug/l	1.9				
2-Nitrophenol	ND	ug/l	2.7				
4-Nitrophenol	ND	ug/l	10.				
2,4-Dinitrophenol	ND	ug/l	13.				
4,6-Dinitro-o-cresol	ND	ug/l	14.				
Pentachlorophenol	ND	ug/l	5.9				
Phenol	ND	ug/l	1.7				
Cresol, Total	ND	ug/l	1.7				
2,4,5-Trichlorophenol	ND	ug/l	2.3				
2,6-Dichlorophenol	ND	ug/l	3.9				
Benzoic Acid	ND	ug/l	34.				
Benzyl Alcohol	ND	ug/l	4.9				

**SURROGATE RECOVERY**

2-Fluorophenol	56.0	%
Phenol-d6	34.0	%
Nitrobenzene-d5	78.0	%

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L9508186-01  
MW-1

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Semi-volatile Organics by GC/MS continued				1	8270	26-Oct 26-Oct	IG
2-Fluorobiphenyl	78.0	%					
2,4,6-Tribromophenol	92.0	%					
4-Terphenyl-d14	96.0	%					
Polychlorinated Biphenyls				1	8080	26-Oct 31-Oct	DB
Arochlor 1221	ND	ug/l	2.5				
Arochlor 1232	ND	ug/l	2.5				
Arochlor 1242/PCB 1016	ND	ug/l	2.5				
Arochlor 1248	ND	ug/l	2.5				
Arochlor 1254	ND	ug/l	2.5				
Arochlor 1260	ND	ug/l	2.5				
Arochlor 1262	ND	ug/l	2.5				
Arochlor 1268	ND	ug/l	2.5				
SURROGATE RECOVERY							
2,4,5,6-Tetrachloro-m-xylene	47.0	%					
Decachlorobiphenyl	45.0	%					
Organochlorine Pesticides				1	8080	26-Oct 31-Oct	DB
Delta-BHC	ND	ug/l	0.20				
Lindane	ND	ug/l	0.20				
Alpha-BHC	ND	ug/l	0.20				
Beta-BHC	ND	ug/l	0.20				
Heptachlor	ND	ug/l	0.20				
Aldrin	ND	ug/l	0.20				
Heptachlor epoxide	ND	ug/l	0.20				
Endrin	ND	ug/l	0.20				
Endrin aldehyde	ND	ug/l	0.20				
Endrin ketone	ND	ug/l	0.20				
Dieldrin	ND	ug/l	0.20				
4,4'-DDE	ND	ug/l	0.20				
4,4'-DDD	ND	ug/l	0.20				
4,4'-DDT	ND	ug/l	0.20				
Endosulfan I	ND	ug/l	0.20				
Endosulfan II	ND	ug/l	0.20				
Endosulfan sulfate	ND	ug/l	0.20				
Methoxychlor	ND	ug/l	0.20				
Toxaphene	ND	ug/l	1.0				
Chlordane	ND	ug/l	0.50				
cis-Chlordane	ND	ug/l	0.20				
trans-Chlordane	ND	ug/l	0.20				

Comments: Complete list of References and Glossary of Terms found in Addendum I



**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L9508186-01  
MW-1

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Organochlorine Pesticides continued				1	8080	26-Oct 31-Oct	DB
SURROGATE RECOVERY							
2,4,5,6-Tetrachloro-m-xylene	47.0	%					
Decachlorobiphenyl	45.0	%					

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Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES  
 CERTIFICATE OF ANALYSIS

MA 086 NH 198958-A CT PH-0574 NY 11148 NC 320 SC 88006 RI A65

Laboratory Sample Number: L9508186-02 Date Collected: 24-OCT-95  
 MW-2 Date Received : 25-OCT-95  
 Sample Matrix: WATER Date Reported : 08-NOV-95  
 Condition of Sample: Satisfactory Field Prep: Field Filtered  
 Number & Type of Containers: 2 Vial, 1 Plastic

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Dissolved Metals				1	3005/3050		
Arsenic, Dissolved	ND	mg/l	0.005	1	6010	31-Oct 01-Nov	GF
Barium, Dissolved	0.01	mg/l	0.01	1	6010	31-Oct 01-Nov	GF
Cadmium, Dissolved	ND	mg/l	0.005	1	6010	31-Oct 01-Nov	GF
Chromium, Dissolved	ND	mg/l	0.01	1	6010	31-Oct 01-Nov	GF
Lead, Dissolved	ND	mg/l	0.05	1	6010	31-Oct 01-Nov	GF
Mercury, Dissolved	ND	mg/l	0.0005	1	7470/7471	03-Nov 06-Nov	DM
Selenium, Dissolved	ND	mg/l	0.005	1	6010	31-Oct 01-Nov	GF
Silver, Dissolved	ND	mg/l	0.01	1	6010	31-Oct 01-Nov	GF

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L9508186-02  
MW-2

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Volatile Organics by GC/MS				1	8260	02-Nov	DB
Methylene chloride	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	1.5				
Chloroform	ND	ug/l	1.5				
Carbon tetrachloride	ND	ug/l	1.0				
1,2-Dichloropropane	ND	ug/l	3.5				
Dibromochloromethane	ND	ug/l	1.0				
1,1,2-Trichloroethane	ND	ug/l	1.5				
2-Chloroethylvinyl ether	ND	ug/l	10.				
Tetrachloroethene	ND	ug/l	1.5				
Chlorobenzene	ND	ug/l	3.5				
Trichlorofluoromethane	ND	ug/l	5.0				
1,2-Dichloroethane	ND	ug/l	1.5				
1,1,1-Trichloroethane	ND	ug/l	1.0				
Bromodichloromethane	ND	ug/l	1.0				
trans-1,3-Dichloropropene	ND	ug/l	1.5				
cis-1,3-Dichloropropene	ND	ug/l	1.0				
Bromoform	ND	ug/l	1.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0				
Benzene	ND	ug/l	1.0				
Toluene	ND	ug/l	1.5				
Ethylbenzene	ND	ug/l	1.0				
Chloromethane	ND	ug/l	10.				
Bromomethane	ND	ug/l	2.0				
Vinyl chloride	ND	ug/l	3.5				
Chloroethane	ND	ug/l	2.0				
1,1-Dichloroethene	ND	ug/l	1.5				
trans-1,2-Dichloroethene	ND	ug/l	1.5				
Trichloroethene	ND	ug/l	1.0				
1,2-Dichlorobenzene	ND	ug/l	10.				
1,3-Dichlorobenzene	ND	ug/l	10.				
1,4-Dichlorobenzene	ND	ug/l	10.				
Methyl tert butyl ether	ND	ug/l	10.				
Xylenes	ND	ug/l	1.0				
cis-1,2-Dichloroethene	ND	ug/l	1.0				
Dibromomethane	ND	ug/l	10.				
1,4-Dichlorobutane	ND	ug/l	10.				
Iodomethane	ND	ug/l	10.				
1,2,3-Trichloropropane	ND	ug/l	10.				
Styrene	ND	ug/l	1.0				
Dichlorodifluoromethane	ND	ug/l	10.				
Acetone	ND	ug/l	10.				
Carbon Disulfide	ND	ug/l	10.				
2-Butanone	ND	ug/l	4.5				
Vinyl Acetate	ND	ug/l	10.				
4-Methyl-2-pentanone	ND	ug/l	10.				
2-Hexanone	ND	ug/l	10.				
Ethyl methacrylate	ND	ug/l	10.				
Acrolein	ND	ug/l	25.				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L9508186-02  
MW-2

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Volatile Organics by GC/MS continued				1	8260	02-Nov	DB
Acrylonitrile	ND	ug/l	10.				
Bromochloromethane	ND	ug/l	1.0				
2,2-Dichloropropane	ND	ug/l	1.0				
1,2-Dibromoethane	ND	ug/l	1.0				
1,3-Dichloropropane	ND	ug/l	1.0				
1,1,1,2-Tetrachloroethane	ND	ug/l	1.0				
Bromobenzene	ND	ug/l	1.0				
n-Butylbenzene	ND	ug/l	1.0				
sec-Butylbenzene	ND	ug/l	1.0				
tert-Butylbenzene	ND	ug/l	1.0				
o-Chlorotoluene	ND	ug/l	1.0				
p-Chlorotoluene	ND	ug/l	1.0				
1,2-Dibromo-3-chloropropane	ND	ug/l	1.0				
Hexachlorobutadiene	ND	ug/l	1.0				
Isopropylbenzene	ND	ug/l	1.0				
p-Isopropyltoluene	ND	ug/l	1.0				
Naphthalene	ND	ug/l	1.0				
n-Propylbenzene	ND	ug/l	1.0				
1,2,3-Trichlorobenzene	ND	ug/l	1.0				
1,2,4-Trichlorobenzene	ND	ug/l	1.0				
1,3,5-Trimethylbenzene	ND	ug/l	1.0				
1,2,4-Trimethylbenzene	ND	ug/l	1.0				
trans-1,4-Dichloro-2-butene	ND	ug/l	1.0				
Ethyl ether	ND	ug/l	25.				
SURROGATE RECOVERY							
Toluene-d8	90.0	%					
4-Bromofluorobenzene	93.0	%					
Dibromofluoromethane	94.0	%					

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

MA 086 NH 198958-A CT PH-0574 NY 11148 NC 320 SC 88006 RI A65

Laboratory Sample Number: L9508186-03  
 Date Collected: 24-OCT-95  
 MW-3  
 Date Received : 25-OCT-95  
 Sample Matrix: WATER  
 Date Reported : 08-NOV-95  
 Condition of Sample: Satisfactory  
 Field Prep: None  
 Number & Type of Containers: 2 Vial, 1 Amber Glass

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Volatile Organics by GC/MS				1	8260		03-Nov DB
Methylene chloride	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	1.5				
Chloroform	ND	ug/l	1.5				
Carbon tetrachloride	ND	ug/l	1.0				
1,2-Dichloropropane	ND	ug/l	3.5				
Dibromochloromethane	ND	ug/l	1.0				
1,1,2-Trichloroethane	ND	ug/l	1.5				
2-Chloroethylvinyl ether	ND	ug/l	10.				
Tetrachloroethene	ND	ug/l	1.5				
Chlorobenzene	ND	ug/l	3.5				
Trichlorofluoromethane	ND	ug/l	5.0				
1,2-Dichloroethane	ND	ug/l	1.5				
1,1,1-Trichloroethane	ND	ug/l	1.0				
Bromodichloromethane	ND	ug/l	1.0				
trans-1,3-Dichloropropene	ND	ug/l	1.5				
cis-1,3-Dichloropropene	ND	ug/l	1.0				
Bromoform	ND	ug/l	1.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0				
Benzene	ND	ug/l	1.0				
Toluene	ND	ug/l	1.5				
Ethylbenzene	ND	ug/l	1.0				
Chloromethane	ND	ug/l	10.				
Bromomethane	ND	ug/l	2.0				
Vinyl chloride	ND	ug/l	3.5				
Chloroethane	ND	ug/l	2.0				
1,1-Dichloroethene	ND	ug/l	1.5				
trans-1,2-Dichloroethene	ND	ug/l	1.5				
Trichloroethene	ND	ug/l	1.0				
1,2-Dichlorobenzene	ND	ug/l	10.				
1,3-Dichlorobenzene	ND	ug/l	10.				
1,4-Dichlorobenzene	ND	ug/l	10.				
Methyl tert butyl ether	ND	ug/l	10.				
Xylenes	ND	ug/l	1.0				
cis-1,2-Dichloroethene	2.0	ug/l	1.0				
Dibromomethane	ND	ug/l	10.				
1,4-Dichlorobutane	ND	ug/l	10.				
Iodomethane	ND	ug/l	10.				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L9508186-03  
MW-3

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES	ID
						PREP ANALYSIS	
Volatile Organics by GC/MS continued				1	8260	03-Nov	DB
1,2,3-Trichloropropane	ND	ug/l	10.				
Styrene	ND	ug/l	1.0				
Dichlorodifluoromethane	ND	ug/l	10.				
Acetone	ND	ug/l	10.				
Carbon Disulfide	ND	ug/l	10.				
2-Butanone	ND	ug/l	4.5				
Vinyl Acetate	ND	ug/l	10.				
4-Methyl-2-pentanone	ND	ug/l	10.				
2-Hexanone	ND	ug/l	10.				
Ethyl methacrylate	ND	ug/l	10.				
Acrolein	ND	ug/l	25.				
Acrylonitrile	ND	ug/l	10.				
Bromochloromethane	ND	ug/l	1.0				
2,2-Dichloropropane	ND	ug/l	1.0				
1,2-Dibromoethane	ND	ug/l	1.0				
1,3-Dichloropropane	ND	ug/l	1.0				
1,1,1,2-Tetrachloroethane	ND	ug/l	1.0				
Bromobenzene	ND	ug/l	1.0				
n-Butylbenzene	ND	ug/l	1.0				
sec-Butylbenzene	ND	ug/l	1.0				
tert-Butylbenzene	ND	ug/l	1.0				
o-Chlorotoluene	ND	ug/l	1.0				
p-Chlorotoluene	ND	ug/l	1.0				
1,2-Dibromo-3-chloropropane	ND	ug/l	1.0				
Hexachlorobutadiene	ND	ug/l	1.0				
Isopropylbenzene	ND	ug/l	1.0				
p-Isopropyltoluene	ND	ug/l	1.0				
Naphthalene	ND	ug/l	1.0				
n-Propylbenzene	ND	ug/l	1.0				
1,2,3-Trichlorobenzene	ND	ug/l	1.0				
1,2,4-Trichlorobenzene	ND	ug/l	1.0				
1,3,5-Trimethylbenzene	ND	ug/l	1.0				
1,2,4-Trimethylbenzene	ND	ug/l	1.0				
trans-1,4-Dichloro-2-butene	ND	ug/l	1.0				
Ethyl ether	ND	ug/l	25.				
SURROGATE RECOVERY							
Toluene-d8	100.	%					
4-Bromofluorobenzene	100.	%					
Dibromofluoromethane	96.0	%					

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L9508186-03  
MW-3

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Hydrocarbon Scan GC 8100 Modified				1	8100M	30-Oct 31-Oct	DB
Mineral Spirits	ND	mg/l	1.0				
Gasoline	ND	mg/l	1.0				
Fuel Oil #2/Diesel	ND	mg/l	1.0				
Fuel Oil #4	ND	mg/l	1.0				
Fuel Oil #6	ND	mg/l	1.0				
Motor Oil	ND	mg/l	1.0				
Kerosene	ND	mg/l	1.0				
<b>SURROGATE RECOVERY</b>							
o-Terphenyl	90.0	%					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES  
 CERTIFICATE OF ANALYSIS

MA 086 NH 198958-A CT PH-0574 NY 11148 NC 320 SC 88006 RI A65

Laboratory Sample Number: L9508186-04  
 MW-4  
 Sample Matrix: WATER

Date Collected: 24-OCT-95  
 Date Received : 25-OCT-95  
 Date Reported : 08-NOV-95

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2 Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Volatile Organics by GC/MS				1	8260	02-Nov	DB
Methylene chloride	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	1.5				
Chloroform	ND	ug/l	1.5				
Carbon tetrachloride	ND	ug/l	1.0				
1,2-Dichloropropane	ND	ug/l	3.5				
Dibromochloromethane	ND	ug/l	1.0				
1,1,2-Trichloroethane	ND	ug/l	1.5				
2-Chloroethylvinyl ether	ND	ug/l	10.				
Tetrachloroethene	ND	ug/l	1.5				
Chlorobenzene	ND	ug/l	3.5				
Trichlorofluoromethane	ND	ug/l	5.0				
1,2-Dichloroethane	ND	ug/l	1.5				
1,1,1-Trichloroethane	ND	ug/l	1.0				
Bromodichloromethane	ND	ug/l	1.0				
trans-1,3-Dichloropropene	ND	ug/l	1.5				
cis-1,3-Dichloropropene	ND	ug/l	1.0				
Bromoform	ND	ug/l	1.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0				
Benzene	ND	ug/l	1.0				
Toluene	ND	ug/l	1.5				
Ethylbenzene	ND	ug/l	1.0				
Chloromethane	ND	ug/l	10.				
Bromomethane	ND	ug/l	2.0				
Vinyl chloride	ND	ug/l	3.5				
Chloroethane	ND	ug/l	2.0				
1,1-Dichloroethene	ND	ug/l	1.5				
trans-1,2-Dichloroethene	ND	ug/l	1.5				
Trichloroethene	ND	ug/l	1.0				
1,2-Dichlorobenzene	ND	ug/l	10.				
1,3-Dichlorobenzene	ND	ug/l	10.				
1,4-Dichlorobenzene	ND	ug/l	10.				
Methyl tert butyl ether	ND	ug/l	10.				
Xylenes	ND	ug/l	1.0				
cis-1,2-Dichloroethene	ND	ug/l	1.0				
Dibromomethane	ND	ug/l	10.				
1,4-Dichlorobutane	ND	ug/l	10.				
Iodomethane	ND	ug/l	10.				

Comments: Complete list of References and Glossary of Terms found in Addendum I



ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L9508186-04  
MW-4

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Volatile Organics by GC/MS continued				1	8260	02-Nov	DB
1,2,3-Trichloropropane	ND	ug/l	10.				
Styrene	ND	ug/l	1.0				
Dichlorodifluoromethane	ND	ug/l	10.				
Acetone	ND	ug/l	10.				
Carbon Disulfide	ND	ug/l	10.				
2-Butanone	ND	ug/l	4.5				
Vinyl Acetate	ND	ug/l	10.				
4-Methyl-2-pentanone	ND	ug/l	10.				
2-Hexanone	ND	ug/l	10.				
Ethyl methacrylate	ND	ug/l	10.				
Acrolein	ND	ug/l	25.				
Acrylonitrile	ND	ug/l	10.				
Bromochloromethane	ND	ug/l	1.0				
2,2-Dichloropropane	ND	ug/l	1.0				
1,2-Dibromoethane	ND	ug/l	1.0				
1,3-Dichloropropane	ND	ug/l	1.0				
1,1,1,2-Tetrachloroethane	ND	ug/l	1.0				
Bromobenzene	ND	ug/l	1.0				
n-Butylbenzene	ND	ug/l	1.0				
sec-Butylbenzene	ND	ug/l	1.0				
tert-Butylbenzene	ND	ug/l	1.0				
o-Chlorotoluene	ND	ug/l	1.0				
p-Chlorotoluene	ND	ug/l	1.0				
1,2-Dibromo-3-chloropropane	ND	ug/l	1.0				
Hexachlorobutadiene	ND	ug/l	1.0				
Isopropylbenzene	ND	ug/l	1.0				
p-Isopropyltoluene	ND	ug/l	1.0				
Naphthalene	ND	ug/l	1.0				
n-Propylbenzene	ND	ug/l	1.0				
1,2,3-Trichlorobenzene	ND	ug/l	1.0				
1,2,4-Trichlorobenzene	ND	ug/l	1.0				
1,3,5-Trimethylbenzene	ND	ug/l	1.0				
1,2,4-Trimethylbenzene	ND	ug/l	1.0				
trans-1,4-Dichloro-2-butene	ND	ug/l	1.0				
Ethyl ether	ND	ug/l	25.				
SURROGATE RECOVERY							
Toluene-d8	87.0	%					
4-Bromofluorobenzene	91.0	%					
Dibromofluoromethane	87.0	%					

Comments: Complete list of References and Glossary of Terms found in Addendum I



**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L9508186-05  
MW-5

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Volatile Organics by GC/MS				1	8260	03-Nov	DB
Methylene chloride	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	1.5				
Chloroform	ND	ug/l	1.5				
Carbon tetrachloride	ND	ug/l	1.0				
1,2-Dichloropropane	ND	ug/l	3.5				
Dibromochloromethane	ND	ug/l	1.0				
1,1,2-Trichloroethane	ND	ug/l	1.5				
2-Chloroethylvinyl ether	ND	ug/l	10.				
Tetrachloroethene	17.	ug/l	1.5				
Chlorobenzene	ND	ug/l	3.5				
Trichlorofluoromethane	ND	ug/l	5.0				
1,2-Dichloroethane	ND	ug/l	1.5				
1,1,1-Trichloroethane	ND	ug/l	1.0				
Bromodichloromethane	ND	ug/l	1.0				
trans-1,3-Dichloropropene	ND	ug/l	1.5				
cis-1,3-Dichloropropene	ND	ug/l	1.0				
Bromoform	ND	ug/l	1.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0				
Benzene	ND	ug/l	1.0				
Toluene	ND	ug/l	1.5				
Ethylbenzene	ND	ug/l	1.0				
Chloromethane	ND	ug/l	10.				
Bromomethane	ND	ug/l	2.0				
Vinyl chloride	ND	ug/l	3.5				
Chloroethane	ND	ug/l	2.0				
1,1-Dichloroethene	ND	ug/l	1.5				
trans-1,2-Dichloroethene	ND	ug/l	1.5				
Trichloroethene	8.6	ug/l	1.0				
1,2-Dichlorobenzene	ND	ug/l	10.				
1,3-Dichlorobenzene	ND	ug/l	10.				
1,4-Dichlorobenzene	ND	ug/l	10.				
Methyl tert butyl ether	ND	ug/l	10.				
Xylenes	ND	ug/l	1.0				
cis-1,2-Dichloroethene	ND	ug/l	1.0				
Dibromomethane	ND	ug/l	10.				
1,4-Dichlorobutane	ND	ug/l	10.				
Iodomethane	ND	ug/l	10.				
1,2,3-Trichloropropane	ND	ug/l	10.				
Styrene	ND	ug/l	1.0				
Dichlorodifluoromethane	ND	ug/l	10.				
Acetone	ND	ug/l	10.				
Carbon Disulfide	ND	ug/l	10.				
2-Butanone	ND	ug/l	4.5				
Vinyl Acetate	ND	ug/l	10.				
4-Methyl-2-pentanone	ND	ug/l	10.				
2-Hexanone	ND	ug/l	10.				
Ethyl methacrylate	ND	ug/l	10.				
Acrolein	ND	ug/l	25.				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L9508186-05  
MW-5

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Volatile Organics by GC/MS continued				1	8260	03-Nov	DB
Acrylonitrile	ND	ug/l	10.				
Bromochloromethane	ND	ug/l	1.0				
2,2-Dichloropropane	ND	ug/l	1.0				
1,2-Dibromoethane	ND	ug/l	1.0				
1,3-Dichloropropane	ND	ug/l	1.0				
1,1,1,2-Tetrachloroethane	ND	ug/l	1.0				
Bromobenzene	ND	ug/l	1.0				
n-Butylbenzene	ND	ug/l	1.0				
sec-Butylbenzene	ND	ug/l	1.0				
tert-Butylbenzene	ND	ug/l	1.0				
o-Chlorotoluene	ND	ug/l	1.0				
p-Chlorotoluene	ND	ug/l	1.0				
1,2-Dibromo-3-chloropropane	ND	ug/l	1.0				
Hexachlorobutadiene	ND	ug/l	1.0				
Isopropylbenzene	ND	ug/l	1.0				
p-Isopropyltoluene	ND	ug/l	1.0				
Naphthalene	ND	ug/l	1.0				
n-Propylbenzene	ND	ug/l	1.0				
1,2,3-Trichlorobenzene	ND	ug/l	1.0				
1,2,4-Trichlorobenzene	ND	ug/l	1.0				
1,3,5-Trimethylbenzene	ND	ug/l	1.0				
1,2,4-Trimethylbenzene	ND	ug/l	1.0				
trans-1,4-Dichloro-2-butene	ND	ug/l	1.0				
Ethyl ether	ND	ug/l	25.				
SURROGATE RECOVERY							
Toluene-d8	90.0	%					
4-Bromofluorobenzene	93.0	%					
Dibromofluoromethane	94.0	%					

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

MA 086 NH 198958-A CT PH-0574 NY 11148 NC 320 SC 88006 RI A65

Laboratory Sample Number: L9508186-06  
 Date Collected: 24-OCT-95  
 MW-6  
 Date Received : 25-OCT-95  
 Sample Matrix: WATER  
 Date Reported : 08-NOV-95  
 Condition of Sample: Satisfactory  
 Field Prep: Field Filtered  
 Number & Type of Containers: 2 Vial,1 Plastic

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Dissolved Metals				1	3005/3050		
Arsenic, Dissolved	ND	mg/l	0.005	1	6010	31-Oct 01-Nov	GF
Barium, Dissolved	ND	mg/l	0.01	1	6010	31-Oct 01-Nov	GF
Cadmium, Dissolved	ND	mg/l	0.005	1	6010	31-Oct 01-Nov	GF
Chromium, Dissolved	ND	mg/l	0.01	1	6010	31-Oct 01-Nov	GF
Lead, Dissolved	ND	mg/l	0.05	1	6010	31-Oct 01-Nov	GF
Mercury, Dissolved	ND	mg/l	0.0005	1	7470/7471	03-Nov 06-Nov	DM
Selenium, Dissolved	ND	mg/l	0.005	1	6010	31-Oct 01-Nov	GF
Silver, Dissolved	ND	mg/l	0.01	1	6010	31-Oct 01-Nov	GF

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L9508186-06  
MW-6

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Volatile Organics by GC/MS				1	8260	02-Nov	DB
Methylene chloride	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	1.5				
Chloroform	ND	ug/l	1.5				
Carbon tetrachloride	ND	ug/l	1.0				
1,2-Dichloropropane	ND	ug/l	3.5				
Dibromochloromethane	ND	ug/l	1.0				
1,1,2-Trichloroethane	ND	ug/l	1.5				
2-Chloroethylvinyl ether	ND	ug/l	10.				
Tetrachloroethene	ND	ug/l	1.5				
Chlorobenzene	ND	ug/l	3.5				
Trichlorofluoromethane	ND	ug/l	5.0				
1,2-Dichloroethane	ND	ug/l	1.5				
1,1,1-Trichloroethane	12.	ug/l	1.0				
Bromodichloromethane	ND	ug/l	1.0				
trans-1,3-Dichloropropene	ND	ug/l	1.5				
cis-1,3-Dichloropropene	ND	ug/l	1.0				
Bromoform	ND	ug/l	1.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0				
Benzene	ND	ug/l	1.0				
Toluene	ND	ug/l	1.5				
Ethylbenzene	ND	ug/l	1.0				
Chloromethane	ND	ug/l	10.				
Bromomethane	ND	ug/l	2.0				
Vinyl chloride	ND	ug/l	3.5				
Chloroethane	ND	ug/l	2.0				
1,1-Dichloroethene	ND	ug/l	1.5				
trans-1,2-Dichloroethene	ND	ug/l	1.5				
Trichloroethene	38.	ug/l	1.0				
1,2-Dichlorobenzene	ND	ug/l	10.				
1,3-Dichlorobenzene	ND	ug/l	10.				
1,4-Dichlorobenzene	ND	ug/l	10.				
Methyl tert butyl ether	ND	ug/l	10.				
Xylenes	ND	ug/l	1.0				
cis-1,2-Dichloroethene	ND	ug/l	1.0				
Dibromomethane	ND	ug/l	10.				
1,4-Dichlorobutane	ND	ug/l	10.				
Iodomethane	ND	ug/l	10.				
1,2,3-Trichloropropane	ND	ug/l	10.				
Styrene	ND	ug/l	1.0				
Dichlorodifluoromethane	ND	ug/l	10.				
Acetone	ND	ug/l	10.				
Carbon Disulfide	ND	ug/l	10.				
2-Butanone	ND	ug/l	4.5				
Vinyl Acetate	ND	ug/l	10.				
4-Methyl-2-pentanone	ND	ug/l	10.				
2-Hexanone	ND	ug/l	10.				
Ethyl methacrylate	ND	ug/l	10.				
Acrolein	ND	ug/l	25.				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L9508186-06  
MW-6

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Volatile Organics by GC/MS continued				1	8260	02-Nov	DB
Acrylonitrile	ND	ug/l	10.				
Bromochloromethane	ND	ug/l	1.0				
2,2-Dichloropropane	ND	ug/l	1.0				
1,2-Dibromoethane	ND	ug/l	1.0				
1,3-Dichloropropane	ND	ug/l	1.0				
1,1,1,2-Tetrachloroethane	ND	ug/l	1.0				
Bromobenzene	ND	ug/l	1.0				
n-Butylbenzene	ND	ug/l	1.0				
sec-Butylbenzene	ND	ug/l	1.0				
tert-Butylbenzene	ND	ug/l	1.0				
o-Chlorotoluene	ND	ug/l	1.0				
p-Chlorotoluene	ND	ug/l	1.0				
1,2-Dibromo-3-chloropropane	ND	ug/l	1.0				
Hexachlorobutadiene	ND	ug/l	1.0				
Isopropylbenzene	ND	ug/l	1.0				
p-Isopropyltoluene	ND	ug/l	1.0				
Naphthalene	ND	ug/l	1.0				
n-Propylbenzene	ND	ug/l	1.0				
1,2,3-Trichlorobenzene	ND	ug/l	1.0				
1,2,4-Trichlorobenzene	ND	ug/l	1.0				
1,3,5-Trimethylbenzene	ND	ug/l	1.0				
1,2,4-Trimethylbenzene	ND	ug/l	1.0				
trans-1,4-Dichloro-2-butene	ND	ug/l	1.0				
Ethyl ether	ND	ug/l	25.				
SURROGATE RECOVERY							
Toluene-d8	94.0	%					
4-Bromofluorobenzene	106.	%					
Dibromofluoromethane	95.0	%					

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

MA 086 NH 198958-A CT PH-0574 NY 11148 NC 320 SC 88006 RI A65

Laboratory Sample Number: L9508186-07  
 Date Collected: 24-OCT-95  
 MW-7  
 Date Received : 25-OCT-95  
 Sample Matrix: WATER  
 Date Reported : 08-NOV-95  
 Condition of Sample: Satisfactory  
 Field Prep: None  
 Number & Type of Containers: 2 Vial, 1 Amber Glass

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Volatile Organics by GC/MS				1	8260	03-Nov	DB
Methylene chloride	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	1.5				
Chloroform	ND	ug/l	1.5				
Carbon tetrachloride	ND	ug/l	1.0				
1,2-Dichloropropane	ND	ug/l	3.5				
Dibromochloromethane	ND	ug/l	1.0				
1,1,2-Trichloroethane	ND	ug/l	1.5				
2-Chloroethylvinyl ether	ND	ug/l	10.				
Tetrachloroethene	ND	ug/l	1.5				
Chlorobenzene	ND	ug/l	3.5				
Trichlorofluoromethane	ND	ug/l	5.0				
1,2-Dichloroethane	ND	ug/l	1.5				
1,1,1-Trichloroethane	1.6	ug/l	1.0				
Bromodichloromethane	ND	ug/l	1.0				
trans-1,3-Dichloropropene	ND	ug/l	1.5				
cis-1,3-Dichloropropene	ND	ug/l	1.0				
Bromoform	ND	ug/l	1.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0				
Benzene	ND	ug/l	1.0				
Toluene	ND	ug/l	1.5				
Ethylbenzene	ND	ug/l	1.0				
Chloromethane	ND	ug/l	10.				
Bromomethane	ND	ug/l	2.0				
Vinyl chloride	ND	ug/l	3.5				
Chloroethane	ND	ug/l	2.0				
1,1-Dichloroethene	2.0	ug/l	1.5				
trans-1,2-Dichloroethene	ND	ug/l	1.5				
Trichloroethene	7.6	ug/l	1.0				
1,2-Dichlorobenzene	ND	ug/l	10.				
1,3-Dichlorobenzene	ND	ug/l	10.				
1,4-Dichlorobenzene	ND	ug/l	10.				
Methyl tert butyl ether	ND	ug/l	10.				
Xylenes	ND	ug/l	1.0				
cis-1,2-Dichloroethene	ND	ug/l	1.0				
Dibromomethane	ND	ug/l	10.				
1,4-Dichlorobutane	ND	ug/l	10.				
Iodomethane	ND	ug/l	10.				

Comments: Complete list of References and Glossary of Terms found in Addendum I



**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L9508186-07  
MW-7

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Volatile Organics by GC/MS continued				1	8260	03-Nov	DB
1,2,3-Trichloropropane	ND	ug/l	10.				
Styrene	ND	ug/l	1.0				
Dichlorodifluoromethane	ND	ug/l	10.				
Acetone	ND	ug/l	10.				
Carbon Disulfide	ND	ug/l	10.				
2-Butanone	ND	ug/l	4.5				
Vinyl Acetate	ND	ug/l	10.				
4-Methyl-2-pentanone	ND	ug/l	10.				
2-Hexanone	ND	ug/l	10.				
Ethyl methacrylate	ND	ug/l	10.				
Acrolein	ND	ug/l	25.				
Acrylonitrile	ND	ug/l	10.				
Bromochloromethane	ND	ug/l	1.0				
2,2-Dichloropropane	ND	ug/l	1.0				
1,2-Dibromoethane	ND	ug/l	1.0				
1,3-Dichloropropane	ND	ug/l	1.0				
1,1,1,2-Tetrachloroethane	ND	ug/l	1.0				
Bromobenzene	ND	ug/l	1.0				
n-Butylbenzene	ND	ug/l	1.0				
sec-Butylbenzene	ND	ug/l	1.0				
tert-Butylbenzene	ND	ug/l	1.0				
o-Chlorotoluene	ND	ug/l	1.0				
p-Chlorotoluene	ND	ug/l	1.0				
1,2-Dibromo-3-chloropropane	ND	ug/l	1.0				
Hexachlorobutadiene	ND	ug/l	1.0				
Isopropylbenzene	ND	ug/l	1.0				
p-Isopropyltoluene	ND	ug/l	1.0				
Naphthalene	ND	ug/l	1.0				
n-Propylbenzene	ND	ug/l	1.0				
1,2,3-Trichlorobenzene	ND	ug/l	1.0				
1,2,4-Trichlorobenzene	ND	ug/l	1.0				
1,3,5-Trimethylbenzene	ND	ug/l	1.0				
1,2,4-Trimethylbenzene	ND	ug/l	1.0				
trans-1,4-Dichloro-2-butene	ND	ug/l	1.0				
Ethyl ether	ND	ug/l	25.				
SURROGATE RECOVERY							
Toluene-d8	94.0	%					
4-Bromofluorobenzene	108.	%					
Dibromofluoromethane	97.0	%					

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L9508186-07  
MW-7

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Polychlorinated Biphenyls				1	8080	26-Oct 31-Oct	DB
Arochlor 1221	ND	ug/l	2.5				
Arochlor 1232	ND	ug/l	2.5				
Arochlor 1242/PCB 1016	ND	ug/l	2.5				
Arochlor 1248	ND	ug/l	2.5				
Arochlor 1254	ND	ug/l	2.5				
Arochlor 1260	ND	ug/l	2.5				
Arochlor 1262	ND	ug/l	2.5				
Arochlor 1268	ND	ug/l	2.5				
<b>SURROGATE RECOVERY</b>							
2,4,5,6-Tetrachloro-m-xylene	91.0	%					
Decachlorobiphenyl	50.0	%					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES  
 CERTIFICATE OF ANALYSIS

MA 086 NH 198958-A CT PH-0574 NY 11148 NC 320 SC 88006 RI A65

Laboratory Sample Number: L9508186-08 Date Collected: 24-OCT-95  
 MW-8 Date Received : 25-OCT-95  
 Sample Matrix: WATER Date Reported : 08-NOV-95  
 Condition of Sample: Satisfactory Field Prep: Field Filtered  
 Number & Type of Containers: 2 Vial,1 Plastic

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Dissolved Metals				1	3005/3050		
Arsenic, Dissolved	ND	mg/l	0.005	1	6010	31-Oct 01-Nov	GF
Barium, Dissolved	0.02	mg/l	0.01	1	6010	31-Oct 01-Nov	GF
Cadmium, Dissolved	ND	mg/l	0.005	1	6010	31-Oct 01-Nov	GF
Chromium, Dissolved	ND	mg/l	0.01	1	6010	31-Oct 01-Nov	GF
Lead, Dissolved	ND	mg/l	0.05	1	6010	31-Oct 01-Nov	GF
Mercury, Dissolved	ND	mg/l	0.0005	1	7470/7471	03-Nov 06-Nov	DM
Selenium, Dissolved	ND	mg/l	0.005	1	6010	31-Oct 01-Nov	GF
Silver, Dissolved	ND	mg/l	0.01	1	6010	31-Oct 01-Nov	GF

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L9508186-08  
MW-8

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Volatile Organics by GC/MS				1	8260	03-Nov	DB
Methylene chloride	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	1.5				
Chloroform	ND	ug/l	1.5				
Carbon tetrachloride	ND	ug/l	1.0				
1,2-Dichloropropane	ND	ug/l	3.5				
Dibromochloromethane	ND	ug/l	1.0				
1,1,2-Trichloroethane	ND	ug/l	1.5				
2-Chloroethylvinyl ether	ND	ug/l	10.				
Tetrachloroethene	4.1	ug/l	1.5				
Chlorobenzene	ND	ug/l	3.5				
Trichlorofluoromethane	ND	ug/l	5.0				
1,2-Dichloroethane	ND	ug/l	1.5				
1,1,1-Trichloroethane	ND	ug/l	1.0				
Bromodichloromethane	ND	ug/l	1.0				
trans-1,3-Dichloropropene	ND	ug/l	1.5				
cis-1,3-Dichloropropene	ND	ug/l	1.0				
Bromoform	ND	ug/l	1.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0				
Benzene	ND	ug/l	1.0				
Toluene	ND	ug/l	1.5				
Ethylbenzene	ND	ug/l	1.0				
Chloromethane	ND	ug/l	10.				
Bromomethane	ND	ug/l	2.0				
Vinyl chloride	ND	ug/l	3.5				
Chloroethane	ND	ug/l	2.0				
1,1-Dichloroethene	ND	ug/l	1.5				
trans-1,2-Dichloroethene	ND	ug/l	1.5				
Trichloroethene	11.	ug/l	1.0				
1,2-Dichlorobenzene	ND	ug/l	10.				
1,3-Dichlorobenzene	ND	ug/l	10.				
1,4-Dichlorobenzene	ND	ug/l	10.				
Methyl tert butyl ether	ND	ug/l	10.				
Xylenes	ND	ug/l	1.0				
cis-1,2-Dichloroethene	ND	ug/l	1.0				
Dibromomethane	ND	ug/l	10.				
1,4-Dichlorobutane	ND	ug/l	10.				
Iodomethane	ND	ug/l	10.				
1,2,3-Trichloropropane	ND	ug/l	10.				
Styrene	ND	ug/l	1.0				
Dichlorodifluoromethane	ND	ug/l	10.				
Acetone	ND	ug/l	10.				
Carbon Disulfide	ND	ug/l	10.				
2-Butanone	ND	ug/l	4.5				
Vinyl Acetate	ND	ug/l	10.				
4-Methyl-2-pentanone	ND	ug/l	10.				
2-Hexanone	ND	ug/l	10.				
Ethyl methacrylate	ND	ug/l	10.				
Acrolein	ND	ug/l	25.				

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L9508186-08  
MW-8

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Volatile Organics by GC/MS continued				1	8260	03-Nov	DB
Acrylonitrile	ND	ug/l	10.				
Bromochloromethane	ND	ug/l	1.0				
2,2-Dichloropropane	ND	ug/l	1.0				
1,2-Dibromoethane	ND	ug/l	1.0				
1,3-Dichloropropane	ND	ug/l	1.0				
1,1,1,2-Tetrachloroethane	ND	ug/l	1.0				
Bromobenzene	ND	ug/l	1.0				
n-Butylbenzene	ND	ug/l	1.0				
sec-Butylbenzene	ND	ug/l	1.0				
tert-Butylbenzene	ND	ug/l	1.0				
o-Chlorotoluene	ND	ug/l	1.0				
p-Chlorotoluene	ND	ug/l	1.0				
1,2-Dibromo-3-chloropropane	ND	ug/l	1.0				
Hexachlorobutadiene	ND	ug/l	1.0				
Isopropylbenzene	ND	ug/l	1.0				
p-Isopropyltoluene	ND	ug/l	1.0				
Naphthalene	ND	ug/l	1.0				
n-Propylbenzene	ND	ug/l	1.0				
1,2,3-Trichlorobenzene	ND	ug/l	1.0				
1,2,4-Trichlorobenzene	ND	ug/l	1.0				
1,3,5-Trimethylbenzene	ND	ug/l	1.0				
1,2,4-Trimethylbenzene	ND	ug/l	1.0				
trans-1,4-Dichloro-2-butene	ND	ug/l	1.0				
Ethyl ether	ND	ug/l	25.				
<b>SURROGATE RECOVERY</b>							
Toluene-d8	92.0	%					
4-Bromofluorobenzene	101.	%					
Dibromofluoromethane	91.0	%					

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

MA 086 NH 198958-A CT PH-0574 NY 11148 NC 320 SC 88006 RI A65

Laboratory Sample Number: L9508186-09  
 Date Collected: 24-OCT-95  
 MW-9  
 Date Received : 25-OCT-95  
 Sample Matrix: WATER  
 Date Reported : 08-NOV-95  
 Condition of Sample: Satisfactory  
 Field Prep: None  
 Number & Type of Containers: 2 Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATES PREP ANALYSIS	ID
Volatile Organics by GC/MS				1 8260		03-Nov DB
Methylene chloride	ND	ug/l	5.0			
1,1-Dichloroethane	ND	ug/l	1.5			
Chloroform	ND	ug/l	1.5			
Carbon tetrachloride	ND	ug/l	1.0			
1,2-Dichloropropane	ND	ug/l	3.5			
Dibromochloromethane	ND	ug/l	1.0			
1,1,2-Trichloroethane	ND	ug/l	1.5			
2-Chloroethylvinyl ether	ND	ug/l	10.			
Tetrachloroethene	ND	ug/l	1.5			
Chlorobenzene	ND	ug/l	3.5			
Trichlorofluoromethane	ND	ug/l	5.0			
1,2-Dichloroethane	ND	ug/l	1.5			
1,1,1-Trichloroethane	ND	ug/l	1.0			
Bromodichloromethane	ND	ug/l	1.0			
trans-1,3-Dichloropropene	ND	ug/l	1.5			
cis-1,3-Dichloropropene	ND	ug/l	1.0			
Bromoform	ND	ug/l	1.0			
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0			
Benzene	ND	ug/l	1.0			
Toluene	ND	ug/l	1.5			
Ethylbenzene	ND	ug/l	1.0			
Chloromethane	ND	ug/l	10.			
Bromomethane	ND	ug/l	2.0			
Vinyl chloride	ND	ug/l	3.5			
Chloroethane	ND	ug/l	2.0			
1,1-Dichloroethene	ND	ug/l	1.5			
trans-1,2-Dichloroethene	ND	ug/l	1.5			
Trichloroethene	ND	ug/l	1.0			
1,2-Dichlorobenzene	ND	ug/l	10.			
1,3-Dichlorobenzene	ND	ug/l	10.			
1,4-Dichlorobenzene	ND	ug/l	10.			
Methyl tert butyl ether	ND	ug/l	10.			
Xylenes	ND	ug/l	1.0			
cis-1,2-Dichloroethene	ND	ug/l	1.0			
Dibromomethane	ND	ug/l	10.			
1,4-Dichlorobutane	ND	ug/l	10.			
Iodomethane	ND	ug/l	10.			

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L9508186-09  
MW-9

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Volatile Organics by GC/MS continued				1	8260	03-Nov	DB
1,2,3-Trichloropropane	ND	ug/l	10.				
Styrene	ND	ug/l	1.0				
Dichlorodifluoromethane	ND	ug/l	10.				
Acetone	ND	ug/l	10.				
Carbon Disulfide	ND	ug/l	10.				
2-Butanone	ND	ug/l	4.5				
Vinyl Acetate	ND	ug/l	10.				
4-Methyl-2-pentanone	ND	ug/l	10.				
2-Hexanone	ND	ug/l	10.				
Ethyl methacrylate	ND	ug/l	10.				
Acrolein	ND	ug/l	25.				
Acrylonitrile	ND	ug/l	10.				
Bromochloromethane	ND	ug/l	1.0				
2,2-Dichloropropane	ND	ug/l	1.0				
1,2-Dibromoethane	ND	ug/l	1.0				
1,3-Dichloropropane	ND	ug/l	1.0				
1,1,1,2-Tetrachloroethane	ND	ug/l	1.0				
Bromobenzene	ND	ug/l	1.0				
n-Butylbenzene	ND	ug/l	1.0				
sec-Butylbenzene	ND	ug/l	1.0				
tert-Butylbenzene	ND	ug/l	1.0				
o-Chlorotoluene	ND	ug/l	1.0				
p-Chlorotoluene	ND	ug/l	1.0				
1,2-Dibromo-3-chloropropane	ND	ug/l	1.0				
Hexachlorobutadiene	ND	ug/l	1.0				
Isopropylbenzene	ND	ug/l	1.0				
p-Isopropyltoluene	ND	ug/l	1.0				
Naphthalene	ND	ug/l	1.0				
n-Propylbenzene	ND	ug/l	1.0				
1,2,3-Trichlorobenzene	ND	ug/l	1.0				
1,2,4-Trichlorobenzene	ND	ug/l	1.0				
1,3,5-Trimethylbenzene	ND	ug/l	1.0				
1,2,4-Trimethylbenzene	ND	ug/l	1.0				
trans-1,4-Dichloro-2-butene	ND	ug/l	1.0				
Ethyl ether	ND	ug/l	25.				
SURROGATE RECOVERY							
Toluene-d8	85.0	%					
4-Bromofluorobenzene	94.0	%					
Dibromofluoromethane	89.0	%					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS

MA 086 NH 198958-A CT PH-0574 NY 11148 NC 320 SC 88006 RI A65

Laboratory Sample Number: L9508186-10      Date Collected: 24-OCT-95  
 RAY-01      Date Received : 25-OCT-95  
 Sample Matrix: WATER      Date Reported : 08-NOV-95  
 Condition of Sample: Satisfactory      Field Prep: None  
 Number & Type of Containers: 2 Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Volatile Organics by GC/MS				1	8260		03-Nov DB
Methylene chloride	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	1.5				
Chloroform	ND	ug/l	1.5				
Carbon tetrachloride	ND	ug/l	1.0				
1,2-Dichloropropane	ND	ug/l	3.5				
Dibromochloromethane	ND	ug/l	1.0				
1,1,2-Trichloroethane	ND	ug/l	1.5				
2-Chloroethylvinyl ether	ND	ug/l	10.				
Tetrachloroethene	2.1	ug/l	1.5				
Chlorobenzene	ND	ug/l	3.5				
Trichlorofluoromethane	ND	ug/l	5.0				
1,2-Dichloroethane	ND	ug/l	1.5				
1,1,1-Trichloroethane	ND	ug/l	1.0				
Bromodichloromethane	ND	ug/l	1.0				
trans-1,3-Dichloropropene	ND	ug/l	1.5				
cis-1,3-Dichloropropene	ND	ug/l	1.0				
Bromoform	ND	ug/l	1.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0				
Benzene	ND	ug/l	1.0				
Toluene	ND	ug/l	1.5				
Ethylbenzene	ND	ug/l	1.0				
Chloromethane	ND	ug/l	10.				
Bromomethane	ND	ug/l	2.0				
Vinyl chloride	ND	ug/l	3.5				
Chloroethane	ND	ug/l	2.0				
1,1-Dichloroethene	4.6	ug/l	1.5				
trans-1,2-Dichloroethene	ND	ug/l	1.5				
Trichloroethene	68.	ug/l	1.0				
1,2-Dichlorobenzene	ND	ug/l	10.				
1,3-Dichlorobenzene	ND	ug/l	10.				
1,4-Dichlorobenzene	ND	ug/l	10.				
Methyl tert butyl ether	ND	ug/l	10.				
Xylenes	ND	ug/l	1.0				
cis-1,2-Dichloroethene	3.3	ug/l	1.0				
Dibromomethane	ND	ug/l	10.				
1,4-Dichlorobutane	ND	ug/l	10.				
Iodomethane	ND	ug/l	10.				

Comments: Complete list of References and Glossary of Terms found in Addendum I



**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L9508186-10  
RAY-01

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Volatile Organics by GC/MS continued				1	8260	03-Nov	DB
1,2,3-Trichloropropane	ND	ug/l	10.				
Styrene	ND	ug/l	1.0				
Dichlorodifluoromethane	ND	ug/l	10.				
Acetone	ND	ug/l	10.				
Carbon Disulfide	ND	ug/l	10.				
2-Butanone	ND	ug/l	4.5				
Vinyl Acetate	ND	ug/l	10.				
4-Methyl-2-pentanone	ND	ug/l	10.				
2-Hexanone	ND	ug/l	10.				
Ethyl methacrylate	ND	ug/l	10.				
Acrolein	ND	ug/l	25.				
Acrylonitrile	ND	ug/l	10.				
Bromochloromethane	ND	ug/l	1.0				
2,2-Dichloropropane	ND	ug/l	1.0				
1,2-Dibromoethane	ND	ug/l	1.0				
1,3-Dichloropropane	ND	ug/l	1.0				
1,1,1,2-Tetrachloroethane	ND	ug/l	1.0				
Bromobenzene	ND	ug/l	1.0				
n-Butylbenzene	ND	ug/l	1.0				
sec-Butylbenzene	ND	ug/l	1.0				
tert-Butylbenzene	ND	ug/l	1.0				
o-Chlorotoluene	ND	ug/l	1.0				
p-Chlorotoluene	ND	ug/l	1.0				
1,2-Dibromo-3-chloropropane	ND	ug/l	1.0				
Hexachlorobutadiene	ND	ug/l	1.0				
Isopropylbenzene	ND	ug/l	1.0				
p-Isopropyltoluene	ND	ug/l	1.0				
Naphthalene	ND	ug/l	1.0				
n-Propylbenzene	ND	ug/l	1.0				
1,2,3-Trichlorobenzene	ND	ug/l	1.0				
1,2,4-Trichlorobenzene	ND	ug/l	1.0				
1,3,5-Trimethylbenzene	ND	ug/l	1.0				
1,2,4-Trimethylbenzene	ND	ug/l	1.0				
trans-1,4-Dichloro-2-butene	ND	ug/l	1.0				
Ethyl ether	ND	ug/l	25.				
SURROGATE RECOVERY							
Toluene-d8	94.0	%					
4-Bromofluorobenzene	95.0	%					
Dibromofluoromethane	97.0	%					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS

MA 086 NH 198958-A CT PH-0574 NY 11148 NC 320 SC 88006 RI A65

Laboratory Sample Number: L9508186-11

Date Collected: 23-OCT-95

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Date Received : 25-OCT-95

Sample Matrix:

WATER

Date Reported : 08-NOV-95

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1 Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Volatile Organics by GC/MS				1	8260	02-Nov	DB
Methylene chloride	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	1.5				
Chloroform	ND	ug/l	1.5				
Carbon tetrachloride	ND	ug/l	1.0				
1,2-Dichloropropane	ND	ug/l	3.5				
Dibromochloromethane	ND	ug/l	1.0				
1,1,2-Trichloroethane	ND	ug/l	1.5				
2-Chloroethylvinyl ether	ND	ug/l	10.				
Tetrachloroethene	ND	ug/l	1.5				
Chlorobenzene	ND	ug/l	3.5				
Trichlorofluoromethane	ND	ug/l	5.0				
1,2-Dichloroethane	ND	ug/l	1.5				
1,1,1-Trichloroethane	ND	ug/l	1.0				
Bromodichloromethane	ND	ug/l	1.0				
trans-1,3-Dichloropropene	ND	ug/l	1.5				
cis-1,3-Dichloropropene	ND	ug/l	1.0				
Bromoform	ND	ug/l	1.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0				
Benzene	ND	ug/l	1.0				
Toluene	ND	ug/l	1.5				
Ethylbenzene	ND	ug/l	1.0				
Chloromethane	ND	ug/l	10.				
Bromomethane	ND	ug/l	2.0				
Vinyl chloride	ND	ug/l	3.5				
Chloroethane	ND	ug/l	2.0				
1,1-Dichloroethene	ND	ug/l	1.5				
trans-1,2-Dichloroethene	ND	ug/l	1.5				
Trichloroethene	ND	ug/l	1.0				
1,2-Dichlorobenzene	ND	ug/l	10.				
1,3-Dichlorobenzene	ND	ug/l	10.				
1,4-Dichlorobenzene	ND	ug/l	10.				
Methyl tert butyl ether	ND	ug/l	10.				
Xylenes	ND	ug/l	1.0				
cis-1,2-Dichloroethene	ND	ug/l	1.0				
Dibromomethane	ND	ug/l	10.				
1,4-Dichlorobutane	ND	ug/l	10.				
Iodomethane	ND	ug/l	10.				

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L9508186-11  
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PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Volatile Organics by GC/MS continued				1	8260	02-Nov	DB
1,2,3-Trichloropropane	ND	ug/l	10.				
Styrene	ND	ug/l	1.0				
Dichlorodifluoromethane	ND	ug/l	10.				
Acetone	ND	ug/l	10.				
Carbon Disulfide	ND	ug/l	10.				
2-Butanone	ND	ug/l	4.5				
Vinyl Acetate	ND	ug/l	10.				
4-Methyl-2-pentanone	ND	ug/l	10.				
2-Hexanone	ND	ug/l	10.				
Ethyl methacrylate	ND	ug/l	10.				
Acrolein	ND	ug/l	25.				
Acrylonitrile	ND	ug/l	10.				
Bromochloromethane	ND	ug/l	1.0				
2,2-Dichloropropane	ND	ug/l	1.0				
1,2-Dibromoethane	ND	ug/l	1.0				
1,3-Dichloropropane	ND	ug/l	1.0				
1,1,1,2-Tetrachloroethane	ND	ug/l	1.0				
Bromobenzene	ND	ug/l	1.0				
n-Butylbenzene	ND	ug/l	1.0				
sec-Butylbenzene	ND	ug/l	1.0				
tert-Butylbenzene	ND	ug/l	1.0				
o-Chlorotoluene	ND	ug/l	1.0				
p-Chlorotoluene	ND	ug/l	1.0				
1,2-Dibromo-3-chloropropane	ND	ug/l	1.0				
Hexachlorobutadiene	ND	ug/l	1.0				
Isopropylbenzene	ND	ug/l	1.0				
p-Isopropyltoluene	ND	ug/l	1.0				
Naphthalene	ND	ug/l	1.0				
n-Propylbenzene	ND	ug/l	1.0				
1,2,3-Trichlorobenzene	ND	ug/l	1.0				
1,2,4-Trichlorobenzene	ND	ug/l	1.0				
1,3,5-Trimethylbenzene	ND	ug/l	1.0				
1,2,4-Trimethylbenzene	ND	ug/l	1.0				
trans-1,4-Dichloro-2-butene	ND	ug/l	1.0				
Ethyl ether	ND	ug/l	25.				
SURROGATE RECOVERY							
Toluene-d8	98.0	%					
4-Bromofluorobenzene	96.0	%					
Dibromofluoromethane	102.	%					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L9508186

Parameter	Value 1	Value 2	RPD	Units
Dissolved Metals	DUPLICATE for sample(s) 01-02,05-06,08			
Arsenic, Dissolved	ND	ND	NC	mg/l
Barium, Dissolved	ND	ND	NC	mg/l
Cadmium, Dissolved	ND	ND	NC	mg/l
Chromium, Dissolved	ND	ND	NC	mg/l
Lead, Dissolved	ND	ND	NC	mg/l
Selenium, Dissolved	ND	ND	NC	mg/l
Silver, Dissolved	ND	ND	NC	mg/l
Dissolved Metals	DUPLICATE for sample(s) 01-02,05-06,08			
Mercury, Dissolved	ND	ND	NC	mg/l

ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L9508186

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Parameter	% Recovery
<hr/>	
Dissolved Metals	SPIKE for sample(s) 01-02,05-06,08
Arsenic, Dissolved	95
Barium, Dissolved	91
Cadmium, Dissolved	90
Chromium, Dissolved	85
Lead, Dissolved	92
Selenium, Dissolved	80
Silver, Dissolved	80
<hr/>	
Dissolved Metals	SPIKE for sample(s) 01-02,05-06,08
Mercury, Dissolved	108

**ALPHA ANALYTICAL LABORATORIES**  
**QUALITY ASSURANCE BATCH MS/MSD ANALYSIS**

Laboratory Job Number: L9508186

Parameter	MS %	MSD %	RPD
<b>Volatile Organics by GC/MS Spike Recovery MS/MSD for sample(s) 11</b>			
1,1-Dichloroethene	102	99	3
Trichloroethene	107	118	10
Benzene	105	101	4
Toluene	102	101	1
Chlorobenzene	105	104	1
<b>Volatile Organics by GC/MS Spike Recovery MS/MSD for sample(s) 01-05</b>			
1,1-Dichloroethene	98	114	15
Trichloroethene	99	103	4
Benzene	106	108	2
Toluene	102	111	8
Chlorobenzene	102	102	0
<b>Volatile Organics by GC/MS Spike Recovery MS/MSD for sample(s) 06-10</b>			
1,1-Dichloroethene	99	90	10
Trichloroethene	99	97	2
Benzene	101	99	2
Toluene	90	93	3
Chlorobenzene	98	94	4
<b>Semi-volatile Organic by GC/MS MS/MSD for sample(s) 01</b>			
p-Chloro-m-cresol	82	130	45
2-Chlorophenol	68	86	23
4-Nitrophenol	8	54	148
Pentachlorophenol	26	80	102
Phenol	42	74	55
Acenaphthene	118	116	2
1,2,4-Trichlorobenzene	114	108	5
1,4-Dichlorobenzene	78	84	7
2,4-Dinitrotoluene	120	134	11
N-Nitrosodipropylamine	83	124	40
Pyrene	155	136	13
<b>SURROGATE RECOVERY</b>			
2-Fluorophenol	61	99	48
Phenol-d6	39	74	62
Nitrobenzene-d5	74	116	44
2-Fluorobiphenyl	88	82	7
2,4,6-Tribromophenol	80	88	10
4-Terphenyl-d14	76	86	12

ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

Laboratory Job Number: L9508186

Continued

Parameter	MS %	MSD %	RPD
Pesticide Spike Recovery	MS/MSD for sample(s) 01, 07		
Lindane	44	48	9
Heptachlor	100	90	11
Aldrin	80	74	8
Endrin	131	118	10
Dieldrin	91	85	7
4,4'-DDT	93	88	6
SURROGATE RECOVERY			
2,4,5,6-Tetrachloro-m-xylene	95	81	16
Decachlorobiphenyl	47	44	7

ALPHA ANALYTICAL LABS  
ADDENDUM I

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REFERENCES

1. Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. 1986.

GLOSSARY OF TERMS AND SYMBOLS

REF Reference number in which test method may be found.

METHOD Method number by which analysis was performed.

ID Initials of the analyst.





GROUND WATER

Sample Chain of Custody

W.O.No.: 143, 40		Project Name: Raytheon - Wayland			Number of Containers	Y260 Dissolved Metals TPH 8100 8270 (Full ABN) 8080 PCBs					Remarks			
Sampler: Chris McKenna		ERM T.R. Number	Date	Time		COMP	GRAB	Sample Location						
	10/24/95		17:30				MW-1	5	X	X		X		
			13:30				MW-2	3	X	X				
			14:00				MW-3	3	X		X			
			12:40				MW-4	2	X					
			17:00				MW-5	3	X	X				
			16:30				MW-6	3	X	X				
			11:30				MW-7	3	X			X		
			15:25				MW-8	3	X	X				
			16:00				MW-9	2	X					

Sample Relinquished	Date	Time	Sample Received by:	Date	Time	Reason for Transfer
Chris McKenna	10/25/95	11:45	[Signature]	10/25/95	14:30	To lab courier
			AL BULL			

RECEIVED  
 NOV 10 1995

White & Yellow copies accompany sample shipment to laboratory. Yellow copy retained by lab. White copy to be returned to ERM for files. Pink copy retained by sampler. Gold copy extra copy as ne (warehouse).



# GROUND WATER

## Sample Chain of Custody

W.O.No.: 143.40		Project Name: Raytheon - Wayland				Number of Containers <div style="font-size: 2em; font-weight: bold; text-align: center;">1260</div>							Remarks						
Sampler: Chris McKenna																			
ERM T.R. Number	Date	Time	C O M P	G R A B	Sample Location	Number of Containers													
	10/24/95	14:50			RAY-01	2	X												
					TRIP BLANK	1	X												
Sample Relinquished		Date	Time	Sample Received by:		Date	Time	Reason for Transfer											
Chris McKenna		10/25/95		GIB		10/25/95	11:45	to lab courier											
				96 Box		10/24	1430												

COPIES: White & Yellow copies accompany sample shipment to laboratory. Yellow copy retained by laboratory. White copy to be returned to ERM for files. Pink copy retained by sampler. Gold copy extra copy as needed (warehouse).

ALPHA ANALYTICAL LABORATORIES

Eight Walkup Drive  
Westborough, Massachusetts 01581-1019  
(508) 898-9220

MA 086 NH 198958-A CT PH-0574 NY 11148 NC 320 SC 88006 RI A65

CERTIFICATE OF ANALYSIS

Client: ERM-New England Laboratory Job Number: L9508036  
Address: 205 Portland Street Invoice Number: 78103  
Boston, MA 02114 Date Received: 19-OCT-95  
Attn: John Drobinski Date Reported: 20-OCT-95  
Project Number: Delivery Method: Alpha  
Site: ERM

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ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L9508036-01	MW-4 (FILTERED)	

Authorized by: James R. Roth

James R. Roth, PhD - Laboratory Manager

ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS

MA 086 NH 198958-A CT PH-0574 NY 11148 NC 320 SC 88006 RI A65

Laboratory Sample Number: L9508036-01  
 Sample Matrix: MW-4 (FILTERED)  
 WATER  
 Condition of Sample: Satisfactory  
 Number & Type of Containers: 1 Amber Glass

Date Collected: 18-OCT-95  
 Date Received : 19-OCT-95  
 Date Reported : 20-OCT-95  
 Field Prep: None

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Polychlorinated Biphenyls				1	8080	19-Oct 20-Oct	DB
Arochlor 1221	ND	ug/l	2.5				
Arochlor 1232	ND	ug/l	2.5				
Arochlor 1242/PCB 1016	ND	ug/l	2.5				
Arochlor 1248	ND	ug/l	2.5				
Arochlor 1254	ND	ug/l	2.5				
Arochlor 1260	ND	ug/l	2.5				
Arochlor 1262	ND	ug/l	2.5				
Arochlor 1268	ND	ug/l	2.5				

WOGATE RECOVERY

2,4,5,6-Tetrachloro-m-xylene	87.0	%
Decachlorobiphenyl	92.0	%

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABS  
ADDENDUM I

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REFERENCES

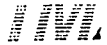
1. Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. 1986.

GLOSSARY OF TERMS AND SYMBOLS

REF Reference number in which test method may be found.

METHOD Method number by which analysis was performed.

IA Initials of the analyst.



Thermo Analytical

# Chain of Custody Record

381

300 Second Avenue, P.O. Box 521 • Waltham MA 02254-0521 • (617) 890-7200 Fax: (617) 890-3883 DATE 10/19/95 PAGE 1 OF 1

CLIENT <u>ERM</u>		Parameters										Other			NUMBER OF CONTAINERS	Observations/Comments					
ADDRESS <u>265 Parkland St. Boston, MA 02114</u>		<u>PCBz (total)</u>	<u>PCBz (dissol)</u>										Iced	Filtered			Preservative	Sample Type			
Project Name		SAMPLER (Signature) <u>John Dziubinski</u>																			
Sample No.	Date	Time	COMP.	GRAB	Location																
<u>RW-4</u>	<u>10/19/95</u>	<u>7:00</u>		<u>X</u>		<u>X</u>	<u>X</u>													<u>Groundwater</u>	<u>1</u>
TOTAL NUMBER OF CONTAINERS																					

RELINQUISHED BY <u>Chris McKenny</u> Signature <u>Chris McKenny</u> Printed Name <u>ERM</u> Company	DATE <u>10/19/95</u> TIME <u>12:40</u>	RECEIVED BY <u>ANDRE BRISSON</u> Signature <u>ANDRE BRISSON</u> Printed Name Company	DATE <u>10/19</u> TIME <u>12:40</u>	RELINQUISHED BY <u>Chris McKenny</u> Signature <u>Chris McKenny</u> Printed Name <u>ERM</u> Company	DATE <u>10/19</u> TIME <u>7:00</u>	RECEIVED BY <u>Shirley Olette</u> Signature <u>Shirley Olette</u> Printed Name <u>ALPHC</u> Company	DATE <u>10/19</u> TIME <u>1:40</u>	METHOD OF SHIPMENT
RELINQUISHED BY Signature Printed Name Company	DATE TIME	RECEIVED BY Signature Printed Name Company	DATE TIME	RELINQUISHED BY Signature Printed Name Company	DATE TIME	RECEIVED BY (Laboratory) Signature Printed Name <u>Thermo Analytical</u>	DATE TIME	SPECIAL SHIPMENT/HANDLING OR STORAGE REQUIREMENTS

ALPHA ANALYTICAL LABORATORIES

Eight Walkup Drive  
Westborough, Massachusetts 01581-1019  
(508) 898-9220

MA 086 NH 198958-A CT PH-0574 NY 11148 NC 320 SC 88006 RI A65

CERTIFICATE OF ANALYSIS

Client: ERM-New England Laboratory Job Number: L9508090  
Address: 205 Portland Street Invoice Number: 78162  
Boston, MA 02114 Date Received: 20-OCT-95  
Attn: John McTigue Date Reported: 23-OCT-95  
Project Number: ~~179-39~~ 143.40 Delivery Method: Client  
Site: WAY

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ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L9508090-01	SB-5 (S-4)	
L9508090-02	MW-4	

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Authorized by: James R. Roth

James R. Roth, PhD - Laboratory Manager

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

MA 086 NH 198958-A CT PH-0574 NY 11148 NC 320 SC 88006 RI A65

Laboratory Sample Number: L9508090-02  
 Sample Matrix: MW-4 WATER  
 Condition of Sample: Satisfactory  
 Number & Type of Containers: 1 Plastic

Date Collected: 20-OCT-95  
 Date Received : 20-OCT-95  
 Date Reported : 23-OCT-95  
 Field Prep: None

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
<del>Dissolved Metals</del>					1	1005/1050	
Arsenic, Dissolved	ND	mg/l	0.005	1	6010	20-Oct 23-Oct	GF
Barium, Dissolved	0.28	mg/l	0.01	1	6010	20-Oct 23-Oct	GF
Cadmium, Dissolved	ND	mg/l	0.005	1	6010	20-Oct 23-Oct	GF
Chromium, Dissolved	ND	mg/l	0.01	1	6010	20-Oct 23-Oct	GF
Lead, Dissolved	ND	mg/l	0.05	1	6010	20-Oct 23-Oct	GF
Mercury, Dissolved	ND	mg/l	0.0005	1	7470/7471	20-Oct 23-Oct	DM
Selenium, Dissolved	ND	mg/l	0.005	1	6010	20-Oct 23-Oct	GF
Silver, Dissolved	ND	mg/l	0.01	1	6010	20-Oct 23-Oct	GF

Comments: Complete list of References and Glossary of Terms found in Addendum I



ALPHA ANALYTICAL LABORATORIES  
 QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L9508090

Parameter	Value 1	Value 2	RPD	Units
<b>Total Metals</b> DUPLICATE for sample(s) 01				
Arsenic, Total	7.2	6.3	12	mg/kg
Barium, Total	23.	24.	2	mg/kg
Cadmium, Total	ND	ND	NC	mg/kg
Chromium, Total	70.	92.	26	mg/kg
Lead, Total	6.3	7.3	14	mg/kg
Selenium, Total	ND	ND	NC	mg/kg
Silver, Total	ND	ND	NC	mg/kg
<b>Dissolved Metals</b> DUPLICATE for sample(s) 02				
Arsenic, Dissolved	ND	ND	NC	mg/l
Barium, Dissolved	0.28	0.29	4	mg/l
Cadmium, Dissolved	ND	ND	NC	mg/l
Chromium, Dissolved	ND	ND	NC	mg/l
Lead, Dissolved	ND	ND	NC	mg/l
Selenium, Dissolved	ND	ND	NC	mg/l
Silver, Dissolved	ND	ND	NC	mg/l
<b>Dissolved Metals</b> DUPLICATE for sample(s) 02				
Mercury, Dissolved	ND	ND	NC	mg/l

ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L9508090

Parameter	% Recovery
<b>Total Metals</b> SPIKE for sample(s) 01	
Arsenic, Total	100
Barium, Total	89
Cadmium, Total	100
Lead, Total	90
Silver, Total	60
<b>Dissolved Metals</b> SPIKE for sample(s) 02	
Arsenic, Dissolved	98
Barium, Dissolved	85
Cadmium, Dissolved	84
Chromium, Dissolved	80
Lead, Dissolved	82
Selenium, Dissolved	80
Silver, Dissolved	80
<b>Total Metals</b> SPIKE for sample(s) 01	
Mercury, Total	95
<b>Dissolved Metals</b> SPIKE for sample(s) 02	
Mercury, Dissolved	79

**ALPHA ANALYTICAL LABS  
ADDENDUM I**

---

**REFERENCES**

1. Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. 1986.
3. Standard Methods for Examination of Water and Waste Water. APHA-AWWA-WPCF. 17th Edition. 1989.

**GLOSSARY OF TERMS AND SYMBOLS**

REF Reference number in which test method may be found.  
METHOD Method number by which analysis was performed.  
ID Initials of the analyst.

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# ALPHA

Analytical Laboratories, Inc.

Eight Walkup Drive  
Westborough, MA 01581-1019  
508-898-9220 FAX 508-898-9193

## CHAIN OF CUSTODY RECORD and ANALYSIS REQUEST RECORD

No. 54169

Sheet 1 of 1

Company Name:  
**ERM**

Project Number:  
**179-39**

Project Name/Location:  
**WAY**

Date Received in Lab:  
**10/20**

Date Due:  
**10/23 RUSH**

Company Address:  
**205 Port Ledge St. Bldg**

Phone Number:  
**617 742 9228**

Project Manager:  
**JMET**

Alpha Job Number: (Lab use only)  
**9508090**

ALPHA  
LAB  
(Lab Use Only)

Sample I.D.

Container Codes:  
P = Plastic V = Vial  
C = Cube G = Glass  
A = Amber Glass  
B = Bacteria Container  
O = Other

Containers  
(number/type)

Matrix / Source

Method Preserve.  
(number of containers)

Unpres.	Ice	Nitric	Sulfuric	HCl	Other
---------	-----	--------	----------	-----	-------

Solubles - F.F.

Sampling

Date	Time
------	------

MATRIX / SOURCE CODES  
MW = Monitoring Well RO = Runoff O = Outfall W = Well LF = Landfill  
L = Lake/Pond/Ocean I = Influent E = Effluent DW = Drinking Water  
R = River Stream S = Soil SG = Sludge B = Bottom Sediment

X1 = Other \_\_\_\_\_ X2 = Other \_\_\_\_\_

Analysis Requested

Sample I.D.	Containers (number/type)	Matrix / Source	Method Preserve. (number of containers)	Solubles - F.F.	Sampling Date	Sampling Time	Analysis Requested
1	SB-5(S-4) IG	W	1		10/20	3:30	PCB + RCRA 8 metals (TS)
2	MW-4 IP	W	1		10/20	5:00	dissolved RCRA 8 metals (filter first)
							Rush
							per phone call

Signature

Attention

Date

Time

NUMBER

TRANSFERS RELINQUISHED BY

TRANSFERS ACCEPTED BY

DATE

TIME

ADDITIONAL COMMENTS:

2  
3  
4

TOTAL P.08

10-20-1998 16:33

HEALTH HAZARD UNIT

508 898 9193 P.08

ALPHA ANALYTICAL LABORATORIES

Eight Walkup Drive  
Westborough, Massachusetts 01581-1019  
(508) 898-9220

MA 086 NH 198958-A CT PH-0574 NY 11148 NC 320 SC 88006 RI A65

CERTIFICATE OF ANALYSIS

Client: ERM-New England Laboratory Job Number: L9508941  
Address: 205 Portland Street Invoice Number: 79088  
Boston, MA 02114 Date Received: 20-NOV-95  
Attn: John Drobinski Date Reported: 21-NOV-95  
Project Number: 143-40 Delivery Method: Client  
Site: Raytheon

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ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L9508941-01	SD-4	Wayland, MA
L9508941-02	SD-3	Wayland, MA
L9508941-03	SD-2	Wayland, MA
L9508941-04	MW-7	Wayland, MA
L9508941-05	RAY-01 A	Wayland, MA
L9508941-06	TRIP BLANK	Wayland, MA
L9508941-07	RAY-01 B	Wayland, MA

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Authorized by: James K. Roth

James K. Roth, PhD - Laboratory Manager









ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS

MA 086 NH 198958-A CT PH-0574 NY 11148 NC 320 SC 88006 RI A65

Laboratory Sample Number: L9508941-04      Date Collected: 20-NOV-95  
 MW-7      Date Received : 20-NOV-95  
 Sample Matrix: WATER      Date Reported : 21-NOV-95  
 Condition of Sample: Satisfactory      Field Prep: None  
 Number & Type of Containers: 2 Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Halogenated Volatile Organics				1	8010	21-Nov	SF
Chloromethane/Vinyl chloride	ND	ug/l	0.50				
Bromomethane/Chloroethane	ND	ug/l	0.50				
Methylene chloride	ND	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	0.50				
1,1-Dichloroethene	2.7	ug/l	0.50				
1,1-Dichloroethane	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	1.2	ug/l	0.50				
Chloroform	0.59	ug/l	0.50				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1,1-Trichloroethane	4.0	ug/l	0.50				
Carbon tetrachloride	ND	ug/l	0.50				
Bromodichloromethane	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
Trichloroethene	21.	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.50				
Dibromochloromethane	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
2-Chloroethylvinyl ether	ND	ug/l	0.50				
Bromoform	ND	ug/l	0.50				
Tetrachloroethene	0.65	ug/l	0.50				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	0.50				
1,3-Dichlorobenzene	ND	ug/l	0.50				
1,4-Dichlorobenzene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	0.50				

Comments: Complete list of References and Glossary of Terms found in Addendum I



**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

MA 086 NH 198958-A CT PH-0574 NY 11148 NC 320 SC 88006 RI A65

Laboratory Sample Number: L9508941-06  
 Sample Matrix: TRIP BLANK  
 Condition of Sample: Satisfactory  
 Number & Type of Containers: 1 Vial

Date Collected: 20-NOV-95  
 Date Received : 20-NOV-95  
 Date Reported : 21-NOV-95  
 Field Prep: None

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Halogenated Volatile Organics				1	8010		21-Nov SF
Chloromethane/Vinyl chloride	ND	ug/l	0.50				
Bromomethane/Chloroethane	ND	ug/l	0.50				
Methylene chloride	ND	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	0.50				
1,1-Dichloroethene	ND	ug/l	0.50				
1,1-Dichloroethane	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
Chloroform	ND	ug/l	0.50				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
Carbon tetrachloride	ND	ug/l	0.50				
Bromodichloromethane	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
Trichloroethene	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.50				
Dibromochloromethane	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
2-Chloroethylvinyl ether	ND	ug/l	0.50				
Bromoform	ND	ug/l	0.50				
Tetrachloroethene	ND	ug/l	0.50				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	0.50				
1,3-Dichlorobenzene	ND	ug/l	0.50				
1,4-Dichlorobenzene	ND	ug/l	0.50				
Dichlorodifluoromethane	ND	ug/l	0.50				

Comments: Complete list of References and Glossary of Terms found in Addendum I



ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L9508941

Parameter	Value 1	Value 2	RPD	Units
Total Metals	DUPLICATE for sample(s) 01-03			
Mercury, Total	0.46	0.65	35	mg/kg

ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L9508941

Parameter	% Recovery
Total Metals	SPIKE for sample(s) 01-03
Mercury, Total	92
Total Metals	SPIKE for sample(s) 01-03
Arsenic, Total	88
Barium, Total	94
Cadmium, Total	80
Chromium, Total	75
Lead, Total	85

ALPHA ANALYTICAL LABS  
ADDENDUM I

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REFERENCES

1. Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. 1986.
3. Standard Methods for Examination of Water and Waste Water. APHA-AWWA-WPCF. 17th Edition. 1989.

GLOSSARY OF TERMS AND SYMBOLS

- REF Reference number in which test method may be found.
- METHOD Method number by which analysis was performed.
- ID Initials of the analyst.

# ALPHA

Analytical Laboratories, Inc.

Eight Walkup Drive  
Westborough, MA 01581-1019  
508-898-9220 FAX 508-898-9193

## CHAIN OF CUSTODY RECORD and ANALYSIS REQUEST RECORD

No. 22  
Sheet 1 of 1

Company Name: **ERM-New England**

Project Number: **143.40**  
P.O. Number:

Project Name/Location: **Raytheon, Wayland**

Date Received in Lab: **11/20**

Date Due: **11/27/11** <sup>has RUSH</sup>

Company Address: **205 Portland St Boston**

Phone Number: **617-742-8228**  
FAX No.: **617-720-5742**

Project Manager: **John Drobinski**

Alpha Job Number: (Lab use only) **9508941**

**ALPHA**  
**Lab #**  
(Lab Use Only)

**Sample I.D.**

Container Codes:  
P = Plastic V = Vial  
C = Cube G = Glass  
A = Amber Glass  
B = Bacteria Container  
O = Other

Containers  
(number/type)

Method Preserve.  
(number of containers)

Matrix / Source	Unpres.	Ice	Nitric	Sulfuric	HCl	Other	Solubles - F.F.
S	1						
S	1						
S	1						
MW					2		
MW					2		
					1		
MW							

Sampling  
Date Time

MATRIX / SOURCE CODES  
MW = Monitoring Well RO = Runoff O = Outfall W = Well LF = Landfill  
L = Lake/Pond/Ocean I = Influent E = Effluent DW = Drinking Water  
R = River Stream S = Soil SG = Sludge B = Bottom Sediment  
X1 = Other \_\_\_\_\_ X2 = Other \_\_\_\_\_

**Analysis Requested**

89411	SD-4	1G	S	1					11/20 10:35	PCB EC80, Total RCRA8 Metals
2	SD-3	1G	S	1					11/20 10:30	PCB EC80, Total RCRA8 Metals
3	SD-2	1G	S	1					11/20 10:20	PCB EC80, Total RCRA8 Metals
4	MW-7	2V	MW				2		11/20 1:30	VOC 8010
5	RAY-01(A)	1ZV	MW				2		11/20 12:00	VOC 8010
6	Tripblank	1V					1		11/20 9:00	VOC 8010
7	RAY-01(B)	1V	MW						11/20 12:00	8010 - PCB EC80, Total RCRA8 Metals

Signature: **John M. R. Drobinski** Analyst  
Initiation: **Geologist** Date: **11/20/11** Time: **3:10**

ADDITIONAL COMMENTS:  
**3 day (72 hour) turnaround on all samples**

NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME
1	<b>John M. R. Drobinski</b>		11/20/11	1515
2				
3				
4				



ALPHA ANALYTICAL LABORATORIES

Eight Walkup Drive  
Westborough, Massachusetts 01581-1019  
(508) 898-9220

MA 086 NH 198958-A CT PH-0574 NY 11148 NC 320 SC 88006 RI A65

CERTIFICATE OF ANALYSIS

Client: ERM-New England

Laboratory Job Number: L9509815

Address: 205 Portland Street

Invoice Number: 80123

Boston, MA 02114

Date Received: 28-DEC-95

Attn: Don Maggioli

Date Reported: 03-JAN-96

Project Number: 143-40

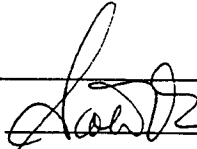
Delivery Method: Alpha

Site: Raytheon

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ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L9509815-01	MW-10	Wayland, MA
L9509815-02	MW-11	Wayland, MA

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Authorized by: 

Scott McLean - Laboratory Director

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

MA 086 NH 198958-A CT PH-0574 NY 11148 NC 320 SC 88006 RI A65

Laboratory Sample Number: L9509815-01      Date Collected: 28-DEC-95  
 Sample Matrix: MW-10      Date Received : 28-DEC-95  
                                  WATER      Date Reported : 03-JAN-96  
 Condition of Sample: Satisfactory      Field Prep: None  
 Number & Type of Containers: 1 Amber Glass

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	II
Polychlorinated Biphenyls				1	8080	29-Dec 29-Dec	DE
Arochlor 1221	ND	ug/l	2.5				
Arochlor 1232	ND	ug/l	2.5				
Arochlor 1242/PCB 1016	ND	ug/l	2.5				
Arochlor 1248	ND	ug/l	2.5				
Arochlor 1254	ND	ug/l	2.5				
Arochlor 1260	ND	ug/l	2.5				
Arochlor 1262	ND	ug/l	2.5				
Arochlor 1268	ND	ug/l	2.5				
SURROGATE RECOVERY							
2,4,5,6-Tetrachloro-m-xylene	116.	%					
Decachlorobiphenyl	39.0	%					

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

MA 086 NH 198958-A CT PH-0574 NY 11148 NC 320 SC 88006 RI A65

Laboratory Sample Number: L9509815-02 Date Collected: 28-DEC-95  
 MW-11 Date Received : 28-DEC-95  
 Sample Matrix: WATER Date Reported : 03-JAN-96  
 Condition of Sample: Satisfactory Field Prep: None  
 Number & Type of Containers: 2 Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATES PREP ANALYSIS	ID
Volatile Organics by GC/MS						
				1 8260		03-Jan DB
Methylene chloride	ND	ug/l	5.0			
1,1-Dichloroethane	ND	ug/l	1.5			
Chloroform	ND	ug/l	1.5			
Carbon tetrachloride	ND	ug/l	1.0			
1,2-Dichloropropane	ND	ug/l	3.5			
Dibromochloromethane	ND	ug/l	1.0			
1,1,2-Trichloroethane	ND	ug/l	1.5			
2-Chloroethylvinyl ether	ND	ug/l	10.			
Tetrachloroethene	1.5	ug/l	1.5			
Chlorobenzene	ND	ug/l	3.5			
Trichlorofluoromethane	ND	ug/l	5.0			
1,2-Dichloroethane	ND	ug/l	1.5			
1,1,1-Trichloroethane	ND	ug/l	1.0			
Bromodichloromethane	ND	ug/l	1.0			
trans-1,3-Dichloropropene	ND	ug/l	1.5			
cis-1,3-Dichloropropene	ND	ug/l	1.0			
Bromoform	ND	ug/l	1.0			
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0			
Benzene	25.	ug/l	1.0			
Toluene	4.1	ug/l	1.5			
Ethylbenzene	31.	ug/l	1.0			
Chloromethane	ND	ug/l	10.			
Bromomethane	ND	ug/l	2.0			
Vinyl chloride	ND	ug/l	3.5			
Chloroethane	ND	ug/l	2.0			
1,1-Dichloroethene	ND	ug/l	1.5			
trans-1,2-Dichloroethene	ND	ug/l	1.5			
Trichloroethene	10.	ug/l	1.0			
1,2-Dichlorobenzene	ND	ug/l	10.			
1,3-Dichlorobenzene	ND	ug/l	10.			
1,4-Dichlorobenzene	ND	ug/l	10.			
Methyl tert butyl ether	ND	ug/l	10.			
Xylenes	95.	ug/l	1.0			
cis-1,2-Dichloroethene	6.5	ug/l	1.0			
Dibromomethane	ND	ug/l	10.			
1,4-Dichlorobutane	ND	ug/l	10.			
Iodomethane	ND	ug/l	10.			

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L9509815-02  
MW-11

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Volatile Organics by GC/MS continued				1	8260		03-Jan DB
1,2,3-Trichloropropane	ND	ug/l	10.				
Styrene	ND	ug/l	1.0				
Dichlorodifluoromethane	ND	ug/l	10.				
Acetone	ND	ug/l	10.				
Carbon Disulfide	ND	ug/l	10.				
2-Butanone	ND	ug/l	4.5				
Vinyl Acetate	ND	ug/l	10.				
4-Methyl-2-pentanone	ND	ug/l	10.				
2-Hexanone	ND	ug/l	10.				
Ethyl methacrylate	ND	ug/l	10.				
Acrolein	ND	ug/l	25.				
Acrylonitrile	ND	ug/l	10.				
Bromochloromethane	ND	ug/l	1.0				
2,2-Dichloropropane	ND	ug/l	1.0				
1,2-Dibromoethane	ND	ug/l	1.0				
1,3-Dichloropropane	ND	ug/l	1.0				
1,1,1,2-Tetrachloroethane	ND	ug/l	1.0				
Bromobenzene	ND	ug/l	1.0				
n-Butylbenzene	ND	ug/l	1.0				
sec-Butylbenzene	2.3	ug/l	1.0				
tert-Butylbenzene	ND	ug/l	1.0				
o-Chlorotoluene	ND	ug/l	1.0				
p-Chlorotoluene	ND	ug/l	1.0				
1,2-Dibromo-3-chloropropane	ND	ug/l	1.0				
Hexachlorobutadiene	ND	ug/l	1.0				
Isopropylbenzene	8.6	ug/l	1.0				
p-Isopropyltoluene	ND	ug/l	1.0				
Naphthalene	30.	ug/l	1.0				
n-Propylbenzene	ND	ug/l	1.0				
1,2,3-Trichlorobenzene	ND	ug/l	1.0				
1,2,4-Trichlorobenzene	ND	ug/l	1.0				
1,3,5-Trimethylbenzene	31.	ug/l	1.0				
1,2,4-Trimethylbenzene	120	ug/l	1.0				
trans-1,4-Dichloro-2-butene	ND	ug/l	1.0				
Ethyl ether	ND	ug/l	25.				
SURROGATE RECOVERY							
Toluene-d8	95.0	%					
4-Bromofluorobenzene	95.0	%					
Dibromofluoromethane	95.0	%					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

Laboratory Job Number: L9509815

Parameter	MS %	MSD %	RPD
Volatile Organics by GC/MS Spike Recovery MS/MSD for sample(s) 02			
1,1-Dichloroethene	98	105	7
Trichloroethene	100	107	7
Benzene	103	109	6
Toluene	103	110	7
Chlorobenzene	104	109	5

ALPHA ANALYTICAL LABS  
ADDENDUM I

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REFERENCES

1. Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. 1986.

GLOSSARY OF TERMS AND SYMBOLS

REF Reference number in which test method may be found.

METHOD Method number by which analysis was performed.

ID Initials of the analyst.

