

ALPHA ANALYTICAL LABORATORIES

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MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

CERTIFICATE OF ANALYSIS

Client: ERM-New England Laboratory Job Number: L0506286  
Address: 399 Boylston Street  
6th Floor  
Boston, MA 02116 Date Received: 08-JUN-2005  
Attn: Jeremy Picard Date Reported: 13-JUN-2005  
Project Number: 29675 Delivery Method: Alpha  
Site: RAYTHEON WAYLAND

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The following questions pertain only to MCP Analytical Methods

An affirmative response to questions A,B,C & D is required for "Presumptive Certainty" status

- A. Were all samples received by the laboratory in a condition consistent with those described on their Chain-of-Custody documentation for the data set? YES
- B. Were all QA/QC procedures required for the specified analytical method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines? YES
- C. Does the analytical data included in this report meet all the requirements for "Presumptive Certainty", as described in section 2.0 of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"? YES
- D. **VPH and EPH methods only:** Was the VPH or EPH method run without significant modifications, as specified in Section 11.3? NA

A response to questions E and F is required for "Presumptive Certainty" status

- E. Were all QC performance standards and recommendations for the specified method(s) achieved? YES
- F. Were results for all analyte-list compounds/elements for the specified method(s) reported? YES

Any answers of NO to the above questions are addressed in the case narrative.

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I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

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Authorized by: Scott McLean  
This document electronically signed

ALPHA ANALYTICAL LABORATORIES

Laboratory Job Number: L0506286  
Date Reported: 13-JUN-2005

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ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0506286-01	MW-552-20050608-01	WAYLAND, MA
L0506286-02	MW-553-20050608-01	WAYLAND, MA
L0506286-03	MW-551-20050608-01	WAYLAND, MA

ALPHA ANALYTICAL LABORATORIES  
NARRATIVE REPORT

Laboratory Job Number: L0506286

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Volatile Organics

The following have elevated limits of detection due to the dilutions required by the elevated concentrations of target compounds in the samples:

L0506286-01,-02- (100X)

L0506286-03 (5X)

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

<b>Laboratory Sample Number:</b> L0506286-01	<b>Date Collected:</b> 08-JUN-2005 12:15
MW-552-20050608-01	<b>Date Received :</b> 08-JUN-2005
<b>Sample Matrix:</b> WATER	<b>Date Reported :</b> 13-JUN-2005
<b>Condition of Sample:</b> Satisfactory	<b>Field Prep:</b> None
<b>Number &amp; Type of Containers:</b> 2-Vial	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP    ANAL	ID
Volatile Organics by MCP 8260B				60 8260B	0610 20:30 BT	
Methylene chloride	ND	ug/l	500			
1,1-Dichloroethane	ND	ug/l	75.			
Chloroform	ND	ug/l	75.			
Carbon tetrachloride	ND	ug/l	50.			
1,2-Dichloropropane	ND	ug/l	180			
Dibromochloromethane	ND	ug/l	50.			
1,1,2-Trichloroethane	ND	ug/l	75.			
Tetrachloroethene	280	ug/l	50.			
Chlorobenzene	ND	ug/l	50.			
Trichlorofluoromethane	ND	ug/l	250			
1,2-Dichloroethane	ND	ug/l	50.			
1,1,1-Trichloroethane	ND	ug/l	50.			
Bromodichloromethane	ND	ug/l	50.			
trans-1,3-Dichloropropene	ND	ug/l	50.			
cis-1,3-Dichloropropene	ND	ug/l	50.			
1,1-Dichloropropene	ND	ug/l	250			
Bromoform	ND	ug/l	200			
1,1,2,2-Tetrachloroethane	ND	ug/l	50.			
Benzene	ND	ug/l	50.			
Toluene	ND	ug/l	75.			
Ethylbenzene	ND	ug/l	50.			
Chloromethane	ND	ug/l	250			
Bromomethane	ND	ug/l	100			
Vinyl chloride	ND	ug/l	100			
Chloroethane	ND	ug/l	100			
1,1-Dichloroethene	ND	ug/l	50.			
trans-1,2-Dichloroethene	ND	ug/l	75.			
Trichloroethene	5400	ug/l	50.			
1,2-Dichlorobenzene	ND	ug/l	250			
1,3-Dichlorobenzene	ND	ug/l	250			
1,4-Dichlorobenzene	ND	ug/l	250			
Methyl tert butyl ether	ND	ug/l	100			
p/m-Xylene	ND	ug/l	100			
o-Xylene	ND	ug/l	100			
cis-1,2-Dichloroethene	300	ug/l	50.			
Dibromomethane	ND	ug/l	500			
1,2,3-Trichloropropane	ND	ug/l	500			
Styrene	ND	ug/l	100			

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

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0506286-01  
 MW-552-20050608-01

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B cont'd				60 8260B	0610 20:30		BT
Dichlorodifluoromethane	ND	ug/l	500				
Acetone	ND	ug/l	500				
Carbon disulfide	ND	ug/l	500				
2-Butanone	ND	ug/l	500				
4-Methyl-2-pentanone	ND	ug/l	500				
2-Hexanone	ND	ug/l	500				
Bromochloromethane	ND	ug/l	250				
Tetrahydrofuran	ND	ug/l	1000				
2,2-Dichloropropane	ND	ug/l	250				
1,2-Dibromoethane	ND	ug/l	200				
1,3-Dichloropropane	ND	ug/l	250				
1,1,1,2-Tetrachloroethane	ND	ug/l	50.				
Bromobenzene	ND	ug/l	250				
n-Butylbenzene	ND	ug/l	50.				
sec-Butylbenzene	ND	ug/l	50.				
tert-Butylbenzene	ND	ug/l	250				
o-Chlorotoluene	ND	ug/l	250				
p-Chlorotoluene	ND	ug/l	250				
1,2-Dibromo-3-chloropropane	ND	ug/l	250				
Hexachlorobutadiene	ND	ug/l	100				
Isopropylbenzene	ND	ug/l	50.				
p-Isopropyltoluene	ND	ug/l	50.				
Naphthalene	ND	ug/l	250				
n-Propylbenzene	ND	ug/l	50.				
1,2,3-Trichlorobenzene	ND	ug/l	250				
1,2,4-Trichlorobenzene	ND	ug/l	250				
1,3,5-Trimethylbenzene	ND	ug/l	250				
1,2,4-Trimethylbenzene	ND	ug/l	250				
Ethyl ether	ND	ug/l	250				
Isopropyl Ether	ND	ug/l	200				
Ethyl-Tert-Butyl-Ether	ND	ug/l	200				
Tertiary-Amyl Methyl Ether	ND	ug/l	200				
1,4-Dioxane	ND	ug/l	25000				
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	105.	%		70-130			
Toluene-d8	102.	%		70-130			
4-Bromofluorobenzene	111.	%		70-130			
Dibromofluoromethane	105.	%		70-130			

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

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

<b>Laboratory Sample Number:</b> L0506286-02	<b>Date Collected:</b> 08-JUN-2005 14:45
MW-553-20050608-01	<b>Date Received :</b> 08-JUN-2005
<b>Sample Matrix:</b> WATER	<b>Date Reported :</b> 13-JUN-2005
<b>Condition of Sample:</b> Satisfactory	<b>Field Prep:</b> None
<b>Number &amp; Type of Containers:</b> 2-Vial	

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP    ANAL	ID
Volatile Organics by MCP 8260B				60 8260B	0610 21:06 BT	
Methylene chloride	ND	ug/l	500			
1,1-Dichloroethane	ND	ug/l	75.			
Chloroform	ND	ug/l	75.			
Carbon tetrachloride	ND	ug/l	50.			
1,2-Dichloropropane	ND	ug/l	180			
Dibromochloromethane	ND	ug/l	50.			
1,1,2-Trichloroethane	ND	ug/l	75.			
Tetrachloroethene	260	ug/l	50.			
Chlorobenzene	ND	ug/l	50.			
Trichlorofluoromethane	ND	ug/l	250			
1,2-Dichloroethane	ND	ug/l	50.			
1,1,1-Trichloroethane	ND	ug/l	50.			
Bromodichloromethane	ND	ug/l	50.			
trans-1,3-Dichloropropene	ND	ug/l	50.			
cis-1,3-Dichloropropene	ND	ug/l	50.			
1,1-Dichloropropene	ND	ug/l	250			
Bromoform	ND	ug/l	200			
1,1,2,2-Tetrachloroethane	ND	ug/l	50.			
Benzene	ND	ug/l	50.			
Toluene	ND	ug/l	75.			
Ethylbenzene	ND	ug/l	50.			
Chloromethane	ND	ug/l	250			
Bromomethane	ND	ug/l	100			
Vinyl chloride	ND	ug/l	100			
Chloroethane	ND	ug/l	100			
1,1-Dichloroethene	ND	ug/l	50.			
trans-1,2-Dichloroethene	ND	ug/l	75.			
Trichloroethene	4300	ug/l	50.			
1,2-Dichlorobenzene	ND	ug/l	250			
1,3-Dichlorobenzene	ND	ug/l	250			
1,4-Dichlorobenzene	ND	ug/l	250			
Methyl tert butyl ether	ND	ug/l	100			
p/m-Xylene	ND	ug/l	100			
o-Xylene	ND	ug/l	100			
cis-1,2-Dichloroethene	410	ug/l	50.			
Dibromomethane	ND	ug/l	500			
1,2,3-Trichloropropane	ND	ug/l	500			
Styrene	ND	ug/l	100			

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

**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0506286-02  
 MW-553-20050608-01

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B cont'd				60 8260B	0610 21:06		BT
Dichlorodifluoromethane	ND	ug/l	500				
Acetone	ND	ug/l	500				
Carbon disulfide	ND	ug/l	500				
2-Butanone	ND	ug/l	500				
4-Methyl-2-pentanone	ND	ug/l	500				
2-Hexanone	ND	ug/l	500				
Bromochloromethane	ND	ug/l	250				
Tetrahydrofuran	ND	ug/l	1000				
2,2-Dichloropropane	ND	ug/l	250				
1,2-Dibromoethane	ND	ug/l	200				
1,3-Dichloropropane	ND	ug/l	250				
1,1,1,2-Tetrachloroethane	ND	ug/l	50.				
Bromobenzene	ND	ug/l	250				
n-Butylbenzene	ND	ug/l	50.				
sec-Butylbenzene	ND	ug/l	50.				
tert-Butylbenzene	ND	ug/l	250				
o-Chlorotoluene	ND	ug/l	250				
p-Chlorotoluene	ND	ug/l	250				
1,2-Dibromo-3-chloropropane	ND	ug/l	250				
Hexachlorobutadiene	ND	ug/l	100				
Isopropylbenzene	ND	ug/l	50.				
p-Isopropyltoluene	ND	ug/l	50.				
Naphthalene	ND	ug/l	250				
n-Propylbenzene	ND	ug/l	50.				
1,2,3-Trichlorobenzene	ND	ug/l	250				
1,2,4-Trichlorobenzene	ND	ug/l	250				
1,3,5-Trimethylbenzene	ND	ug/l	250				
1,2,4-Trimethylbenzene	ND	ug/l	250				
Ethyl ether	ND	ug/l	250				
Isopropyl Ether	ND	ug/l	200				
Ethyl-Tert-Butyl-Ether	ND	ug/l	200				
Tertiary-Amyl Methyl Ether	ND	ug/l	200				
1,4-Dioxane	ND	ug/l	25000				
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	103.	%		70-130			
Toluene-d8	101.	%		70-130			
4-Bromofluorobenzene	115.	%		70-130			
Dibromofluoromethane	104.	%		70-130			

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

ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0506286-03                                 Date Collected: 08-JUN-2005 16:10  
  MW-551-20050608-01                                 Date Received : 08-JUN-2005  
Sample Matrix:   WATER   Date Reported : 13-JUN-2005  
  
Condition of Sample:                                 Satisfactory                                 Field Prep:           None  
  
Number & Type of Containers: 2-Vial

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B				60 8260B	0610 21:42 BT		
Methylene chloride	ND	ug/l	25.				
1,1-Dichloroethane	ND	ug/l	3.8				
Chloroform	ND	ug/l	3.8				
Carbon tetrachloride	ND	ug/l	2.5				
1,2-Dichloropropane	ND	ug/l	8.8				
Dibromochloromethane	ND	ug/l	2.5				
1,1,2-Trichloroethane	ND	ug/l	3.8				
Tetrachloroethene	ND	ug/l	2.5				
Chlorobenzene	ND	ug/l	2.5				
Trichlorofluoromethane	ND	ug/l	12.				
1,2-Dichloroethane	ND	ug/l	2.5				
1,1,1-Trichloroethane	ND	ug/l	2.5				
Bromodichloromethane	ND	ug/l	2.5				
trans-1,3-Dichloropropene	ND	ug/l	2.5				
cis-1,3-Dichloropropene	ND	ug/l	2.5				
1,1-Dichloropropene	ND	ug/l	12.				
Bromoform	ND	ug/l	10.				
1,1,2,2-Tetrachloroethane	ND	ug/l	2.5				
Benzene	ND	ug/l	2.5				
Toluene	ND	ug/l	3.8				
Ethylbenzene	ND	ug/l	2.5				
Chloromethane	ND	ug/l	12.				
Bromomethane	ND	ug/l	5.0				
Vinyl chloride	ND	ug/l	5.0				
Chloroethane	ND	ug/l	5.0				
1,1-Dichloroethene	ND	ug/l	2.5				
trans-1,2-Dichloroethene	ND	ug/l	3.8				
Trichloroethene	180	ug/l	2.5				
1,2-Dichlorobenzene	ND	ug/l	12.				
1,3-Dichlorobenzene	ND	ug/l	12.				
1,4-Dichlorobenzene	ND	ug/l	12.				
Methyl tert butyl ether	ND	ug/l	5.0				
p/m-Xylene	ND	ug/l	5.0				
o-Xylene	ND	ug/l	5.0				
cis-1,2-Dichloroethene	ND	ug/l	2.5				
Dibromomethane	ND	ug/l	25.				
1,2,3-Trichloropropane	ND	ug/l	25.				
Styrene	ND	ug/l	5.0				

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



**ALPHA ANALYTICAL LABORATORIES**  
**CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0506286-03  
 MW-551-20050608-01

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Volatile Organics by MCP 8260B cont'd				60 8260B	0610	21:42	BT
Dichlorodifluoromethane	ND	ug/l	25.				
Acetone	ND	ug/l	25.				
Carbon disulfide	ND	ug/l	25.				
2-Butanone	ND	ug/l	25.				
4-Methyl-2-pentanone	ND	ug/l	25.				
2-Hexanone	ND	ug/l	25.				
Bromochloromethane	ND	ug/l	12.				
Tetrahydrofuran	ND	ug/l	50.				
2,2-Dichloropropane	ND	ug/l	12.				
1,2-Dibromoethane	ND	ug/l	10.				
1,3-Dichloropropane	ND	ug/l	12.				
1,1,1,2-Tetrachloroethane	ND	ug/l	2.5				
Bromobenzene	ND	ug/l	12.				
n-Butylbenzene	ND	ug/l	2.5				
sec-Butylbenzene	ND	ug/l	2.5				
tert-Butylbenzene	ND	ug/l	12.				
o-Chlorotoluene	ND	ug/l	12.				
p-Chlorotoluene	ND	ug/l	12.				
1,2-Dibromo-3-chloropropane	ND	ug/l	12.				
Hexachlorobutadiene	ND	ug/l	5.0				
Isopropylbenzene	ND	ug/l	2.5				
p-Isopropyltoluene	ND	ug/l	2.5				
Naphthalene	ND	ug/l	12.				
n-Propylbenzene	ND	ug/l	2.5				
1,2,3-Trichlorobenzene	ND	ug/l	12.				
1,2,4-Trichlorobenzene	ND	ug/l	12.				
1,3,5-Trimethylbenzene	ND	ug/l	12.				
1,2,4-Trimethylbenzene	ND	ug/l	12.				
Ethyl ether	ND	ug/l	12.				
Isopropyl Ether	ND	ug/l	10.				
Ethyl-Tert-Butyl-Ether	ND	ug/l	10.				
Tertiary-Amyl Methyl Ether	ND	ug/l	10.				
1,4-Dioxane	ND	ug/l	1200				
Surrogate(s)	Recovery		QC Criteria				
1,2-Dichloroethane-d4	104.	%	70-130				
Toluene-d8	101.	%	70-130				
4-Bromofluorobenzene	116.	%	70-130				
Dibromofluoromethane	101.	%	70-130				

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

**ALPHA ANALYTICAL LABORATORIES**  
**QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS**

Laboratory Job Number: L0506286

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Volatile Organics by MCP 8260B for sample(s) 01-03 (WG203867-10, WG203867-11)					
Methylene chloride	103	107	4	25	70-130
1,1-Dichloroethane	97	96	1	25	70-130
Chloroform	99	99	0	25	70-130
Carbon tetrachloride	99	100	1	25	70-130
1,2-Dichloropropane	100	102	2	25	70-130
Dibromochloromethane	93	100	7	25	70-130
1,1,2-Trichloroethane	99	106	7	25	70-130
Tetrachloroethene	105	106	1	25	70-130
Chlorobenzene	102	102	0	25	70-130
Trichlorofluoromethane	102	108	6	25	70-130
1,2-Dichloroethane	99	101	2	25	70-130
1,1,1-Trichloroethane	100	102	2	25	70-130
Bromodichloromethane	91	95	4	25	70-130
trans-1,3-Dichloropropene	91	96	5	25	70-130
cis-1,3-Dichloropropene	95	95	0	25	70-130
1,1-Dichloropropene	101	105	4	25	70-130
Bromoform	93	100	7	50	70-130
1,1,2,2-Tetrachloroethane	97	102	5	25	70-130
Benzene	103	101	2	25	70-130
Toluene	102	102	0	25	70-130
Ethylbenzene	104	103	1	25	70-130
Chloromethane	108	108	0	50	70-130
Bromomethane	96	96	0	50	70-130
Vinyl chloride	111	110	1	25	70-130
Chloroethane	95	90	5	25	70-130
1,1-Dichloroethene	110	103	7	25	70-130
trans-1,2-Dichloroethene	103	105	2	25	70-130
Trichloroethene	97	99	2	25	70-130
1,2-Dichlorobenzene	102	107	5	25	70-130
1,3-Dichlorobenzene	101	105	4	25	70-130
1,4-Dichlorobenzene	102	105	3	25	70-130
Methyl tert butyl ether	94	101	7	25	70-130
p/m-Xylene	105	108	3	25	70-130
o-Xylene	107	110	3	25	70-130
cis-1,2-Dichloroethene	107	104	3	25	70-130
Dibromomethane	100	103	3	25	70-130
1,2,3-Trichloropropane	94	102	8	25	70-130
Styrene	106	110	4	25	70-130
Dichlorodifluoromethane	130	129	1	50	70-130
Acetone	96	102	6	50	70-130
Carbon disulfide	102	102	0	25	70-130
2-Butanone	114	118	3	50	70-130
4-Methyl-2-pentanone	99	100	1	50	70-130
2-Hexanone	95	103	8	50	70-130
Bromochloromethane	101	106	5	25	70-130
Tetrahydrofuran	92	98	6	25	70-130
2,2-Dichloropropane	98	97	1	25	70-130
1,2-Dibromoethane	100	105	5	25	70-130

ALPHA ANALYTICAL LABORATORIES  
 QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0506286

Continued

Parameter	LCS %	LCSD %	RPD	RPD Limit	QC Limits
Volatile Organics by MCP 8260B for sample(s) 01-03 (WG203867-10, WG203867-11)					
1,3-Dichloropropane	99	105	6	25	70-130
1,1,1,2-Tetrachloroethane	102	106	4	25	70-130
Bromobenzene	102	105	3	25	70-130
n-Butylbenzene	95	96	1	25	70-130
sec-Butylbenzene	105	106	1	25	70-130
tert-Butylbenzene	106	108	2	25	70-130
o-Chlorotoluene	103	103	0	25	70-130
p-Chlorotoluene	104	105	1	25	70-130
1,2-Dibromo-3-chloropropane	99	109	10	50	70-130
Hexachlorobutadiene	103	110	7	25	70-130
Isopropylbenzene	104	105	1	25	70-130
p-Isopropyltoluene	107	108	1	25	70-130
Naphthalene	92	97	5	25	70-130
n-Propylbenzene	105	106	1	25	70-130
1,2,3-Trichlorobenzene	93	100	7	25	70-130
1,2,4-Trichlorobenzene	95	95	0	25	70-130
1,3,5-Trimethylbenzene	107	107	0	25	70-130
1,2,4-Trimethylbenzene	105	107	2	25	70-130
Ethyl ether	94	97	3	25	70-130
Isopropyl Ether	91	92	1	25	70-130
Ethyl-Tert-Butyl-Ether	91	94	3	25	70-130
Tertiary-Amyl Methyl Ether	94	94	0	25	70-130
1,4-Dioxane	101	105	4	50	70-130
Surrogate(s)					
1,2-Dichloroethane-d4	102	102	0		70-130
Toluene-d8	100	99	1		70-130
4-Bromofluorobenzene	101	100	1		70-130
Dibromofluoromethane	104	100	4		70-130

**ALPHA ANALYTICAL LABORATORIES**  
**QUALITY ASSURANCE BATCH BLANK ANALYSIS**

Laboratory Job Number: L0506286

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 01-03 (WG203867-12)							
Volatile Organics by MCP 8260B				60 8260B	0610 15:30 BT		
Methylene chloride	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	0.75				
Chloroform	ND	ug/l	0.75				
Carbon tetrachloride	ND	ug/l	0.50				
1,2-Dichloropropane	ND	ug/l	1.8				
Dibromochloromethane	ND	ug/l	0.50				
1,1,2-Trichloroethane	ND	ug/l	0.75				
Tetrachloroethene	ND	ug/l	0.50				
Chlorobenzene	ND	ug/l	0.50				
Trichlorofluoromethane	ND	ug/l	2.5				
1,2-Dichloroethane	ND	ug/l	0.50				
1,1,1-Trichloroethane	ND	ug/l	0.50				
Bromodichloromethane	ND	ug/l	0.50				
trans-1,3-Dichloropropene	ND	ug/l	0.50				
cis-1,3-Dichloropropene	ND	ug/l	0.50				
1,1-Dichloropropene	ND	ug/l	2.5				
Bromoform	ND	ug/l	2.0				
1,1,2,2-Tetrachloroethane	ND	ug/l	0.50				
Benzene	ND	ug/l	0.50				
Toluene	ND	ug/l	0.75				
Ethylbenzene	ND	ug/l	0.50				
Chloromethane	ND	ug/l	2.5				
Bromomethane	ND	ug/l	1.0				
Vinyl chloride	ND	ug/l	1.0				
Chloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	0.50				
trans-1,2-Dichloroethene	ND	ug/l	0.75				
Trichloroethene	ND	ug/l	0.50				
1,2-Dichlorobenzene	ND	ug/l	2.5				
1,3-Dichlorobenzene	ND	ug/l	2.5				
1,4-Dichlorobenzene	ND	ug/l	2.5				
Methyl tert butyl ether	ND	ug/l	1.0				
p/m-Xylene	ND	ug/l	1.0				
o-Xylene	ND	ug/l	1.0				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
Dibromomethane	ND	ug/l	5.0				
1,2,3-Trichloropropane	ND	ug/l	5.0				
Styrene	ND	ug/l	1.0				
Dichlorodifluoromethane	ND	ug/l	5.0				
Acetone	ND	ug/l	5.0				
Carbon disulfide	ND	ug/l	5.0				
2-Butanone	ND	ug/l	5.0				
4-Methyl-2-pentanone	ND	ug/l	5.0				
2-Hexanone	ND	ug/l	5.0				
Bromochloromethane	ND	ug/l	2.5				
Tetrahydrofuran	ND	ug/l	10.				

ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0506286

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE		ID
					PREP	ANAL	
Blank Analysis for sample(s) 01-03 (WG203867-12)							
Volatile Organics by MCP 8260B	cont'd			60 8260B		0610 15:30	BT
2,2-Dichloropropane	ND	ug/l	2.5				
1,2-Dibromoethane	ND	ug/l	2.0				
1,3-Dichloropropane	ND	ug/l	2.5				
1,1,1,2-Tetrachloroethane	ND	ug/l	0.50				
Bromobenzene	ND	ug/l	2.5				
n-Butylbenzene	ND	ug/l	0.50				
sec-Butylbenzene	ND	ug/l	0.50				
tert-Butylbenzene	ND	ug/l	2.5				
o-Chlorotoluene	ND	ug/l	2.5				
p-Chlorotoluene	ND	ug/l	2.5				
1,2-Dibromo-3-chloropropane	ND	ug/l	2.5				
Hexachlorobutadiene	ND	ug/l	1.0				
Isopropylbenzene	ND	ug/l	0.50				
p-Isopropyltoluene	ND	ug/l	0.50				
Naphthalene	ND	ug/l	2.5				
n-Propylbenzene	ND	ug/l	0.50				
1,2,3-Trichlorobenzene	ND	ug/l	2.5				
1,2,4-Trichlorobenzene	ND	ug/l	2.5				
1,3,5-Trimethylbenzene	ND	ug/l	2.5				
1,2,4-Trimethylbenzene	ND	ug/l	2.5				
Ethyl ether	ND	ug/l	2.5				
Isopropyl Ether	ND	ug/l	2.0				
Ethyl-Tert-Butyl-Ether	ND	ug/l	2.0				
Tertiary-Amyl Methyl Ether	ND	ug/l	2.0				
1,4-Dioxane	ND	ug/l	250				
Surrogate(s)	Recovery			QC Criteria			
1,2-Dichloroethane-d4	103.	%		70-130			
Toluene-d8	99.0	%		70-130			
4-Bromofluorobenzene	107.	%		70-130			
Dibromofluoromethane	102.	%		70-130			

**ALPHA ANALYTICAL LABORATORIES  
ADDENDUM I**

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**REFERENCES**

60. Quality Assurance and Quality Control Requirements and Performance Standards for SW-846 Methods. MADEP BWSC. WSC-CAM-IIA (Revision 4), WSC-CAM-V C (Revision 2), WSC-CAM-IIIA (Revision 5). May 2004.

**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.  
ND Not detected in comparison to the reported detection limit.  
NI Not Ignitable.  
ug/cart Micrograms per Cartridge.

**LIMITATION OF LIABILITIES**

Alpha Analytical, Inc. performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical, Inc., shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical, Inc. be held liable for any incidental consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical, Inc.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding times and splitting of samples in the field.

ALPHA ANALYTICAL LABORATORIES  
LOGIN SPECIFIC INFORMATION

Laboratory Job Number: L0506286

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Were project specific reporting limits specified? YES

**Cooler Information**

Cooler            Custody Seal

---

A                  Absent

**Container Information**

Container ID	Container Type	Cooler	pH	Temp	Pres	Seal	Analysis
L0506286-01A	Vial HCl preserved	A	NA	6C	Y	Absent	MCP-8260-04
L0506286-01B	Vial HCl preserved	A	NA	6C	Y	Absent	MCP-8260-04
L0506286-02A	Vial HCl preserved	A	NA	6C	Y	Absent	MCP-8260-04
L0506286-02B	Vial HCl preserved	A	NA	6C	Y	Absent	MCP-8260-04
L0506286-03A	Vial HCl preserved	A	NA	6C	Y	Absent	MCP-8260-04
L0506286-03B	Vial HCl preserved	A	NA	6C	Y	Absent	MCP-8260-04

**Container Comments**

Container ID	Comments
L0506286-01A	temp probe
L0506286-01B	temp probe
L0506286-02A	temp probe
L0506286-02B	temp probe
L0506286-03A	temp probe
L0506286-03B	temp probe



# CHAIN OF CUSTODY

PAGE 1 OF 1

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

### Client Information

Client: **ERM**  
 Address: **379 Boylston St  
 6th Floor  
 Boston MA 02116**  
 Phone: **617 646 7873**  
 Fax: **617 647**  
 Email: **Tom.Dance@erm.com**

These samples have been previously analyzed by Alpha  
 Other Project Specific Requirements/Comments/Detection Limits:

### Project Information

Project Name: **Ryan Road Wayland**  
 Project Location: **Wayland, MA**  
 Project #: **29675**  
 Project Manager: **Steenj Field**  
 ALPHA Quote #:

### Turn-Around Time

Standard  RUSH (only confirmed if pre-approved)  
 Date Due: **01/15/05** Time:

Date Rec'd in Lab:

**01/18/05**

ALPHA Job #: **0250286**

### Report Information - Data Deliverables

FAX  EMAIL  
 SADEX  "Add'l" Deliverables

### Billing Information

Same as Client Info PO #:

### Regulatory Requirements/Report Limits

State/Fed Program Criteria

### MCP PRESUMPTIVE CERTAINTY - THESE QUESTIONS MUST BE ANSWERED

Yes  No Are MCP Analytical Methods Required?  
 Yes  No Are Drinking Water Samples Submitted?  
 Yes  No Have you met minimum field QC requirements?

ANALYSIS	SAMPLE HANDLING
<b>VOC'S 260</b>	<input type="checkbox"/> Done <input type="checkbox"/> Not needed <input type="checkbox"/> Lab to do <input type="checkbox"/> Preservation <input type="checkbox"/> Lab to do (Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	Container Type Preservative	Date/Time	Received By	Date/Time	Sample Specific Comments
		Date	Time							
	0286.1	20050608	06/08/05 12:15	WR	TD	WR	06/08/05 14:45	TD	2	
	2	20050608	06/08/05 14:45	WR	TD	WR	06/08/05 16:10	TD	2	
	3	20050608	06/08/05 16:10	WR	TD	WR			2	

### QUESTIONS ABOVE MUST BE ANSWERED FOR PRESUMPTIVE CERTAINTY

IS YOUR PROJECT MCP?

Relinquished By:	Date/Time	Received By:	Date/Time
<i>Tom Dance</i>	06/08/05 14:45	<i>E. Field</i>	06/08/05 16:10

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms. See reverse side.