

ALPHA ANALYTICAL LABORATORIES

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

MA: M-MA-086 NH: 200395-B/C CT: PH-0574 ME: MA086 RI: 65

CERTIFICATE OF ANALYSIS

Client: ERM-New England Laboratory Job Number: L0002616
Address: 399 Boylston Street Invoice Number: 35723
6th Floor
Boston, MA 02116 Date Received: 06-APR-00
Attn: Matt Daly Date Reported: 13-APR-00
Project Number: 143.50 Delivery Method: Alpha
Site: RAYTHEON-WAYLAND

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0002616-01	MW-44M	WAYLAND, MA
L0002616-02	MW-44D	WAYLAND, MA
L0002616-03	HA-101	WAYLAND, MA
L0002616-04	MW-10	WAYLAND, MA
L0002616-05	MW-34	WAYLAND, MA
L0002616-06	MW-46M	WAYLAND, MA
L0002616-07	MW-44S	WAYLAND, MA
L0002616-08	MW-41	WAYLAND, MA
L0002616-09	MW-TP3	WAYLAND, MA
L0002616-10	HA-103	WAYLAND, MA
L0002616-11	MW-32	WAYLAND, MA
L0002616-12	HA-102	WAYLAND, MA
L0002616-13	HA-104	WAYLAND, MA
L0002616-14	MW-43D	WAYLAND, MA
L0002616-15	MW-43S	WAYLAND, MA
L0002616-16	MW-46S	WAYLAND, MA

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately 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.

Authorized by: _____

Scott McLean - Laboratory Director

ALPHA ANALYTICAL LABORATORIES

Laboratory Job Number: L0002616
Date Reported: 13-APR-00

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0002616-17	MW-42S	WAYLAND, MA
L0002616-18	ERM-DUP 2	WAYLAND, MA
L0002616-19	TRIP BLANK	ALPHA

ALPHA ANALYTICAL LABORATORIES
 CERTIFICATE OF ANALYSIS

MA: M-MA-086 NH: 200395-B/C CT: PH-0574 ME: MA086 RI: 65

Laboratory Sample Number: L0002616-01 Date Collected: 05-APR-2000
 MW-44M Date Received: 06-APR-2000
 Sample Matrix: WATER Date Reported: 13-APR-00
 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 8021				1	8021B	09-Apr	JC
Bromodichloromethane	ND	ug/l	1.0				
Bromoform	ND	ug/l	1.0				
Carbon tetrachloride	ND	ug/l	1.0				
Chlorobenzene	ND	ug/l	1.0				
Dibromochloromethane	ND	ug/l	10.				
Bromomethane/Chloroethane	ND	ug/l	10.				
Chloroform	ND	ug/l	1.0				
Chloromethane/Vinyl chloride	ND	ug/l	10.				
1,2-Dichlorobenzene	ND	ug/l	1.0				
1,3-Dichlorobenzene	ND	ug/l	1.0				
1,4-Dichlorobenzene	ND	ug/l	1.0				
Dichlorodifluoromethane	ND	ug/l	10.				
1,1-Dichloroethane	ND	ug/l	1.0				
1,2-Dichloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	1.0				
cis-1,2-Dichloroethene	ND	ug/l	1.0				
trans-1,2-Dichloroethene	ND	ug/l	1.0				
1,2-Dichloropropane	ND	ug/l	1.0				
cis-1,3-Dichloropropene	ND	ug/l	1.0				
trans-1,3-Dichloropropene	ND	ug/l	1.0				
Methylene chloride	ND	ug/l	10.				
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0				
Tetrachloroethene	ND	ug/l	1.0				
1,1,1-Trichloroethane	ND	ug/l	1.0				
1,1,2-Trichloroethane	ND	ug/l	1.0				
Trichloroethene	ND	ug/l	1.0				
Trichlorofluoromethane	ND	ug/l	1.0				
2-Chloroethyl vinyl ether	ND	ug/l	10.				
Surrogate Recovery							
4-Bromochlorobenzene	85.0	%					

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

ALPHA ANALYTICAL LABORATORIES
 CERTIFICATE OF ANALYSIS

MA: M-MA-086 NH: 200395-B/C CT: PH-0574 ME: MA086 RI: 65

Laboratory Sample Number: L0002616-02 Date Collected: 05-APR-2000
 MW-44D Date Received: 06-APR-2000
 Sample Matrix: WATER Date Reported: 13-APR-00
 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 8021				1	8021B	09-Apr	JC
Bromodichloromethane	ND	ug/l	1.0				
Bromoform	ND	ug/l	1.0				
Carbon tetrachloride	ND	ug/l	1.0				
Chlorobenzene	ND	ug/l	1.0				
Dibromochloromethane	ND	ug/l	10.				
Bromomethane/Chloroethane	ND	ug/l	10.				
Chloroform	ND	ug/l	1.0				
Chloromethane/Vinyl chloride	ND	ug/l	10.				
1,2-Dichlorobenzene	ND	ug/l	1.0				
1,3-Dichlorobenzene	ND	ug/l	1.0				
1,4-Dichlorobenzene	ND	ug/l	1.0				
Dichlorodifluoromethane	ND	ug/l	10.				
1,1-Dichloroethane	ND	ug/l	1.0				
1,2-Dichloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	1.0				
cis-1,2-Dichloroethene	ND	ug/l	1.0				
trans-1,2-Dichloroethene	ND	ug/l	1.0				
1,2-Dichloropropane	ND	ug/l	1.0				
cis-1,3-Dichloropropene	ND	ug/l	1.0				
trans-1,3-Dichloropropene	ND	ug/l	1.0				
Methylene chloride	ND	ug/l	10.				
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0				
Tetrachloroethene	ND	ug/l	1.0				
1,1,1-Trichloroethane	ND	ug/l	1.0				
1,1,2-Trichloroethane	ND	ug/l	1.0				
Trichloroethene	ND	ug/l	1.0				
Trichlorofluoromethane	ND	ug/l	1.0				
2-Chloroethyl vinyl ether	ND	ug/l	10.				

Surrogate Recovery

4-Bromochlorobenzene 78.0 %

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

ALPHA ANALYTICAL LABORATORIES
 CERTIFICATE OF ANALYSIS

MA: M-MA-086 NH: 200395-B/C CT: PH-0574 ME: MA086 RI: 65

Laboratory Sample Number: L0002616-03 Date Collected: 05-APR-2000
 HA-101 Date Received: 06-APR-2000
 Sample Matrix: WATER Date Reported: 13-APR-00
 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 8021				1	8021B	09-Apr	JC
Bromodichloromethane	ND	ug/l	1.0				
Bromoform	ND	ug/l	1.0				
Carbon tetrachloride	ND	ug/l	1.0				
Chlorobenzene	ND	ug/l	1.0				
Dibromochloromethane	ND	ug/l	10.				
Bromomethane/Chloroethane	ND	ug/l	10.				
Chloroform	ND	ug/l	1.0				
Chloromethane/Vinyl chloride	ND	ug/l	10.				
1,2-Dichlorobenzene	ND	ug/l	1.0				
1,3-Dichlorobenzene	ND	ug/l	1.0				
1,4-Dichlorobenzene	ND	ug/l	1.0				
Dichlorodifluoromethane	ND	ug/l	10.				
1,1-Dichloroethane	ND	ug/l	1.0				
1,2-Dichloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	1.0				
cis-1,2-Dichloroethene	ND	ug/l	1.0				
trans-1,2-Dichloroethene	ND	ug/l	1.0				
1,2-Dichloropropane	ND	ug/l	1.0				
cis-1,3-Dichloropropene	ND	ug/l	1.0				
trans-1,3-Dichloropropene	ND	ug/l	1.0				
Methylene chloride	ND	ug/l	10.				
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0				
Tetrachloroethene	ND	ug/l	1.0				
1,1,1-Trichloroethane	ND	ug/l	1.0				
1,1,2-Trichloroethane	ND	ug/l	1.0				
Trichloroethene	ND	ug/l	1.0				
Trichlorofluoromethane	ND	ug/l	1.0				
2-Chloroethyl vinyl ether	ND	ug/l	10.				

Surrogate Recovery

4-Bromochlorobenzene 74.0 %

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

ALPHA ANALYTICAL LABORATORIES
 CERTIFICATE OF ANALYSIS

MA: M-MA-086 NH: 200395-B/C CT: PH-0574 ME: MA086 RI: 65

Laboratory Sample Number: L0002616-04 Date Collected: 05-APR-2000
 MW-10 Date Received: 06-APR-2000
 Sample Matrix: WATER Date Reported: 13-APR-00
 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 8021				1	8021B	09-Apr	JC
Bromodichloromethane	ND	ug/l	1.0				
Bromoform	ND	ug/l	1.0				
Carbon tetrachloride	ND	ug/l	1.0				
Chlorobenzene	ND	ug/l	1.0				
Dibromochloromethane	ND	ug/l	10.				
Bromomethane/Chloroethane	ND	ug/l	10.				
Chloroform	ND	ug/l	1.0				
Chloromethane/Vinyl chloride	ND	ug/l	10.				
1,2-Dichlorobenzene	ND	ug/l	1.0				
1,3-Dichlorobenzene	ND	ug/l	1.0				
1,4-Dichlorobenzene	ND	ug/l	1.0				
Dichlorodifluoromethane	ND	ug/l	10.				
1,1-Dichloroethane	ND	ug/l	1.0				
1,2-Dichloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	1.0				
cis-1,2-Dichloroethene	ND	ug/l	1.0				
trans-1,2-Dichloroethene	ND	ug/l	1.0				
1,2-Dichloropropane	ND	ug/l	1.0				
cis-1,3-Dichloropropene	ND	ug/l	1.0				
trans-1,3-Dichloropropene	ND	ug/l	1.0				
Methylene chloride	ND	ug/l	10.				
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0				
Tetrachloroethene	ND	ug/l	1.0				
1,1,1-Trichloroethane	ND	ug/l	1.0				
1,1,2-Trichloroethane	ND	ug/l	1.0				
Trichloroethene	ND	ug/l	1.0				
Trichlorofluoromethane	ND	ug/l	1.0				
2-Chloroethyl vinyl ether	ND	ug/l	10.				

Surrogate Recovery

4-Bromochlorobenzene 83.0 %

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA: M-MA-086 NH: 200395-B/C CT: PH-0574 ME: MA086 RI: 65

Laboratory Sample Number: L0002616-05	Date Collected: 05-APR-2000
MW-34	Date Received : 06-APR-2000
Sample Matrix: WATER	Date Reported : 13-APR-00
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 8021				1	8021B	10-Apr	JC
Bromodichloromethane	ND	ug/l	1.0				
Bromoform	ND	ug/l	1.0				
Carbon tetrachloride	ND	ug/l	1.0				
Chlorobenzene	ND	ug/l	1.0				
Dibromodichloromethane	ND	ug/l	10.				
Bromomethane/Chloroethane	ND	ug/l	10.				
Chloroform	ND	ug/l	1.0				
Chloromethane/Vinyl chloride	ND	ug/l	10.				
1,2-Dichlorobenzene	ND	ug/l	1.0				
1,3-Dichlorobenzene	ND	ug/l	1.0				
1,4-Dichlorobenzene	ND	ug/l	1.0				
Dichlorodifluoromethane	ND	ug/l	10.				
1,1-Dichloroethane	ND	ug/l	1.0				
1,2-Dichloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	1.0				
cis-1,2-Dichloroethene	ND	ug/l	1.0				
trans-1,2-Dichloroethene	ND	ug/l	1.0				
1,2-Dichloropropane	ND	ug/l	1.0				
cis-1,3-Dichloropropene	ND	ug/l	1.0				
trans-1,3-Dichloropropene	ND	ug/l	1.0				
Methylene chloride	ND	ug/l	10.				
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0				
Tetrachloroethene	ND	ug/l	1.0				
1,1,1-Trichloroethane	ND	ug/l	1.0				
1,1,2-Trichloroethane	ND	ug/l	1.0				
Trichloroethene	ND	ug/l	1.0				
Trichlorofluoromethane	ND	ug/l	1.0				
2-Chloroethyl vinyl ether	ND	ug/l	10.				
Surrogate Recovery							
4-Bromochlorobenzene	76.0	%					

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

ALPHA ANALYTICAL LABORATORIES
 CERTIFICATE OF ANALYSIS

MA: M-MA-086 NH: 200395-B/C CT: PH-0574 ME: MA086 RI: 65

Laboratory Sample Number: L0002616-06 Date Collected: 06-APR-2000
 MW-46M Date Received: 06-APR-2000
 Sample Matrix: WATER Date Reported: 13-APR-00
 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 8021				1	8021B	10-Apr	JC
Bromodichloromethane	ND	ug/l	1.0				
Bromoform	ND	ug/l	1.0				
Carbon tetrachloride	ND	ug/l	1.0				
Chlorobenzene	ND	ug/l	1.0				
Dibromochloromethane	ND	ug/l	10.				
Bromomethane/Chloroethane	ND	ug/l	10.				
Chloroform	ND	ug/l	1.0				
Chloromethane/Vinyl chloride	ND	ug/l	10.				
1,2-Dichlorobenzene	ND	ug/l	1.0				
1,3-Dichlorobenzene	ND	ug/l	1.0				
1,4-Dichlorobenzene	ND	ug/l	1.0				
Dichlorodifluoromethane	ND	ug/l	10.				
1,1-Dichloroethane	ND	ug/l	1.0				
1,2-Dichloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	2.1	ug/l	1.0				
cis-1,2-Dichloroethene	ND	ug/l	1.0				
trans-1,2-Dichloroethene	ND	ug/l	1.0				
1,2-Dichloropropane	ND	ug/l	1.0				
cis-1,3-Dichloropropene	ND	ug/l	1.0				
trans-1,3-Dichloropropene	ND	ug/l	1.0				
Methylene chloride	ND	ug/l	10.				
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0				
Tetrachloroethene	ND	ug/l	1.0				
1,1,1-Trichloroethane	ND	ug/l	1.0				
1,1,2-Trichloroethane	ND	ug/l	1.0				
Trichloroethene	8.1	ug/l	1.0				
Trichlorofluoromethane	ND	ug/l	1.0				
2-Chloroethyl vinyl ether	ND	ug/l	10.				
Surrogate Recovery							
4-Bromochlorobenzene	102.	%					

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA: M-MA-086 NH: 200395-B/C CT: PH-0574 ME: MA086 RI: 65

Laboratory Sample Number: L0002616-07	Date Collected: 06-APR-2000
	Date Received : 06-APR-2000
Sample Matrix: MW-44S WATER	Date Reported : 13-APR-00
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 8021				1	8021B	10-Apr	JC
Bromodichloromethane	ND	ug/l	1.0				
Bromoform	ND	ug/l	1.0				
Carbon tetrachloride	ND	ug/l	1.0				
Chlorobenzene	ND	ug/l	1.0				
Dibromochloromethane	ND	ug/l	10.				
Bromomethane/Chloroethane	ND	ug/l	10.				
Chloroform	ND	ug/l	1.0				
Chloromethane/Vinyl chloride	ND	ug/l	10.				
1,2-Dichlorobenzene	ND	ug/l	1.0				
1,3-Dichlorobenzene	ND	ug/l	1.0				
1,4-Dichlorobenzene	ND	ug/l	1.0				
Dichlorodifluoromethane	ND	ug/l	10.				
1,1-Dichloroethane	ND	ug/l	1.0				
1,2-Dichloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	1.0				
cis-1,2-Dichloroethene	ND	ug/l	1.0				
trans-1,2-Dichloroethene	ND	ug/l	1.0				
1,2-Dichloropropane	ND	ug/l	1.0				
cis-1,3-Dichloropropene	ND	ug/l	1.0				
trans-1,3-Dichloropropene	ND	ug/l	1.0				
Methylene chloride	ND	ug/l	10.				
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0				
Tetrachloroethene	ND	ug/l	1.0				
1,1,1-Trichloroethane	ND	ug/l	1.0				
1,1,2-Trichloroethane	ND	ug/l	1.0				
Trichloroethene	ND	ug/l	1.0				
Trichlorofluoromethane	ND	ug/l	1.0				
2-Chloroethyl vinyl ether	ND	ug/l	10.				
Surrogate Recovery							
4-Bromochlorobenzene	86.0	%					

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

ALPHA ANALYTICAL LABORATORIES
 CERTIFICATE OF ANALYSIS

MA: M-MA-086 NH: 200395-B/C CT: PH-0574 ME: MA086 RI: 65

Laboratory Sample Number: L0002616-08 Date Collected: 06-APR-2000
 MW-41 Date Received: 06-APR-2000
 Sample Matrix: WATER Date Reported: 13-APR-00
 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 8021				1	8021B	10-Apr	JC
Bromodichloromethane	ND	ug/l	1.0				
Bromoform	ND	ug/l	1.0				
Carbon tetrachloride	ND	ug/l	1.0				
Chlorobenzene	ND	ug/l	1.0				
Dibromochloromethane	ND	ug/l	10.				
Bromomethane/Chloroethane	ND	ug/l	10.				
Chloroform	ND	ug/l	1.0				
Chloromethane/Vinyl chloride	ND	ug/l	10.				
1,2-Dichlorobenzene	ND	ug/l	1.0				
1,3-Dichlorobenzene	ND	ug/l	1.0				
1,4-Dichlorobenzene	ND	ug/l	1.0				
Dichlorodifluoromethane	ND	ug/l	10.				
1,1-Dichloroethane	ND	ug/l	1.0				
1,2-Dichloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	1.0				
cis-1,2-Dichloroethene	ND	ug/l	1.0				
trans-1,2-Dichloroethene	ND	ug/l	1.0				
1,2-Dichloropropane	ND	ug/l	1.0				
cis-1,3-Dichloropropene	ND	ug/l	1.0				
trans-1,3-Dichloropropene	ND	ug/l	1.0				
Methylene chloride	ND	ug/l	10.				
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0				
Tetrachloroethene	ND	ug/l	1.0				
1,1,1-Trichloroethane	ND	ug/l	1.0				
1,1,2-Trichloroethane	ND	ug/l	1.0				
Trichloroethene	ND	ug/l	1.0				
Trichlorofluoromethane	ND	ug/l	1.0				
2-Chloroethyl vinyl ether	ND	ug/l	10.				

Surrogate Recovery

4-Bromochlorobenzene 77.0 %

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA: M-MA-086 NH: 200395-B/C CT: PH-0574 ME: MA086 RI: 65

Laboratory Sample Number: L0002616-09	Date Collected: 06-APR-2000
	Date Received : 06-APR-2000
Sample Matrix: MW-TP3 WATER	Date Reported : 13-APR-00
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 8021				1	8021B	10-Apr	JC
Bromodichloromethane	ND	ug/l	1.0				
Bromoform	ND	ug/l	1.0				
Carbon tetrachloride	ND	ug/l	1.0				
Chlorobenzene	2.1	ug/l	1.0				
Dibromodichloromethane	ND	ug/l	10.				
Bromomethane/Chloroethane	ND	ug/l	10.				
Chloroform	ND	ug/l	1.0				
Chloromethane/Vinyl chloride	ND	ug/l	10.				
1,2-Dichlorobenzene	4.2	ug/l	1.0				
1,3-Dichlorobenzene	ND	ug/l	1.0				
1,4-Dichlorobenzene	4.0	ug/l	1.0				
Dichlorodifluoromethane	ND	ug/l	10.				
1,1-Dichloroethane	ND	ug/l	1.0				
1,2-Dichloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	1.0				
cis-1,2-Dichloroethene	7.7	ug/l	1.0				
trans-1,2-Dichloroethene	ND	ug/l	1.0				
1,2-Dichloropropane	ND	ug/l	1.0				
cis-1,3-Dichloropropene	ND	ug/l	1.0				
trans-1,3-Dichloropropene	ND	ug/l	1.0				
Methylene chloride	ND	ug/l	10.				
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0				
Tetrachloroethene	ND	ug/l	1.0				
1,1,1-Trichloroethane	ND	ug/l	1.0				
1,1,2-Trichloroethane	ND	ug/l	1.0				
Trichloroethene	4.2	ug/l	1.0				
Trichlorofluoromethane	ND	ug/l	1.0				
2-Chloroethyl vinyl ether	ND	ug/l	10.				
Surrogate Recovery							
4-Bromochlorobenzene	99.0	%					

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA: M-MA-086 NH: 200395-B/C CT: PH-0574 ME: MA086 RI: 65

Laboratory Sample Number: L0002616-11 Date Collected: 06-APR-2000
 MW-32 Date Received: 06-APR-2000
 Sample Matrix: WATER Date Reported: 13-APR-00
 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 8021				1	8021B	10-Apr	JC
Bromochloromethane	ND	ug/l	1.0				
Bromoform	ND	ug/l	1.0				
Carbon tetrachloride	ND	ug/l	1.0				
Chlorobenzene	ND	ug/l	1.0				
Dibromochloromethane	ND	ug/l	10.				
Bromomethane/Chloroethane	ND	ug/l	10.				
Chloroform	ND	ug/l	1.0				
Chloromethane/Vinyl chloride	ND	ug/l	10.				
1,2-Dichlorobenzene	ND	ug/l	1.0				
1,3-Dichlorobenzene	ND	ug/l	1.0				
1,4-Dichlorobenzene	ND	ug/l	1.0				
Dichlorodifluoromethane	ND	ug/l	10.				
1,1-Dichloroethane	ND	ug/l	1.0				
1,2-Dichloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	1.0				
cis-1,2-Dichloroethene	ND	ug/l	1.0				
trans-1,2-Dichloroethene	ND	ug/l	1.0				
1,2-Dichloropropane	ND	ug/l	1.0				
cis-1,3-Dichloropropene	ND	ug/l	1.0				
trans-1,3-Dichloropropene	ND	ug/l	1.0				
Methylene chloride	ND	ug/l	10.				
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0				
Tetrachloroethene	ND	ug/l	1.0				
1,1,1-Trichloroethane	ND	ug/l	1.0				
1,1,2-Trichloroethane	ND	ug/l	1.0				
Trichloroethene	ND	ug/l	1.0				
Trichlorofluoromethane	ND	ug/l	1.0				
2-Chloroethyl vinyl ether	ND	ug/l	10.				

Surrogate Recovery

4-Bromochlorobenzene 78.0 %

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA: M-MA-086 NH: 200395-B/C CT: PH-0574 ME: MA086 RI: 65

Laboratory Sample Number: L0002616-12	Date Collected: 06-APR-2000
Sample Matrix: HA-102	Date Received : 06-APR-2000
Sample Matrix: WATER	Date Reported : 13-APR-00
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 8021				1	8021B	10-Apr	JC
Bromochloromethane	ND	ug/l	1.0				
Bromoform	ND	ug/l	1.0				
Carbon tetrachloride	ND	ug/l	1.0				
Chlorobenzene	ND	ug/l	1.0				
Dibromochloromethane	ND	ug/l	10.				
Bromomethane/Chloroethane	ND	ug/l	10.				
Chloroform	ND	ug/l	1.0				
Chloromethane/Vinyl chloride	ND	ug/l	10.				
1,2-Dichlorobenzene	ND	ug/l	1.0				
1,3-Dichlorobenzene	ND	ug/l	1.0				
1,4-Dichlorobenzene	ND	ug/l	1.0				
Dichlorodifluoromethane	ND	ug/l	10.				
1,1-Dichloroethane	ND	ug/l	1.0				
1,2-Dichloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	1.0				
cis-1,2-Dichloroethene	ND	ug/l	1.0				
trans-1,2-Dichloroethene	ND	ug/l	1.0				
1,2-Dichloropropane	ND	ug/l	1.0				
cis-1,3-Dichloropropene	ND	ug/l	1.0				
trans-1,3-Dichloropropene	ND	ug/l	1.0				
Methylene chloride	ND	ug/l	10.				
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0				
Tetrachloroethene	5.4	ug/l	1.0				
1,1,1-Trichloroethane	ND	ug/l	1.0				
1,1,2-Trichloroethane	ND	ug/l	1.0				
Trichloroethene	17.	ug/l	1.0				
Trichlorofluoromethane	ND	ug/l	1.0				
2-Chloroethyl vinyl ether	ND	ug/l	10.				
Surrogate Recovery							
4-Bromochlorobenzene	92.0	%					

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA: M-MA-086 NH: 200395-B/C CT: PH-0574 ME: MA086 RI: 65

Laboratory Sample Number: L0002616-13	Date Collected: 06-APR-2000
	Date Received : 06-APR-2000
Sample Matrix: HA-104 WATER	Date Reported : 13-APR-00
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 8021				1	8021B	11-Apr	JC
Bromodichloromethane	ND	ug/l	1.0				
Bromoform	ND	ug/l	1.0				
Carbon tetrachloride	ND	ug/l	1.0				
Chlorobenzene	ND	ug/l	1.0				
Dibromochloromethane	ND	ug/l	10.				
Bromomethane/Chloroethane	ND	ug/l	10.				
Chloroform	ND	ug/l	1.0				
Chloromethane/Vinyl chloride	ND	ug/l	10.				
1,2-Dichlorobenzene	ND	ug/l	1.0				
1,3-Dichlorobenzene	ND	ug/l	1.0				
1,4-Dichlorobenzene	ND	ug/l	1.0				
Dichlorodifluoromethane	ND	ug/l	10.				
1,1-Dichloroethane	ND	ug/l	1.0				
1,2-Dichloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	1.0				
cis-1,2-Dichloroethene	ND	ug/l	1.0				
trans-1,2-Dichloroethene	ND	ug/l	1.0				
1,2-Dichloropropane	ND	ug/l	1.0				
cis-1,3-Dichloropropene	ND	ug/l	1.0				
trans-1,3-Dichloropropene	ND	ug/l	1.0				
Methylene chloride	ND	ug/l	10.				
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0				
Tetrachloroethene	36.	ug/l	1.0				
1,1,1-Trichloroethane	ND	ug/l	1.0				
1,1,2-Trichloroethane	ND	ug/l	1.0				
Trichloroethene	69.	ug/l	1.0				
Trichlorofluoromethane	ND	ug/l	1.0				
2-Chloroethyl vinyl ether	ND	ug/l	10.				

Surrogate Recovery

4-Bromochlorobenzene	88.0	%
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Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA: M-MA-086 NH: 200395-B/C CT: PH-0574 ME: MA086 RI: 65

Laboratory Sample Number: L0002616-14 Date Collected: 06-APR-2000
 MW-43D Date Received: 06-APR-2000
 Sample Matrix: WATER Date Reported: 13-APR-00
 Condition of Sample: Satisfactory Field Prep: Field Filtered
 Number & Type of Containers: 4-Amber, 1-Plastic, 2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Di ssol ved Metals							
Antimony, Di ssol ved	ND	mg/l	0.006	1	6010B	10-Apr	MG
Arseni c, Di ssol ved	ND	mg/l	0.025	1	6010B	10-Apr	MG
Beryl li um, Di ssol ved	ND	mg/l	0.004	1	6010B	10-Apr	MG
Cadmi um, Di ssol ved	ND	mg/l	0.005	1	6010B	10-Apr	MG
Chromi um, Di ssol ved	ND	mg/l	0.01	1	6010B	10-Apr	MG
Copper, Di ssol ved	ND	mg/l	0.01	1	6010B	10-Apr	MG
Lead, Di ssol ved	ND	mg/l	0.01	1	6010B	10-Apr	MG
Mercury, Di ssol ved	ND	mg/l	0.0005	1	7470A	11-Apr	TT
Ni ckel , Di ssol ved	ND	mg/l	0.025	1	6010B	10-Apr	MG
Sel eni um, Di ssol ved	ND	mg/l	0.025	1	6010B	10-Apr	MG
Si l ver, Di ssol ved	ND	mg/l	0.007	1	6010B	10-Apr	MG
Thal li um, Di ssol ved	ND	mg/l	0.005	1	6010B	12-Apr	MG
Zi nc, Di ssol ved	ND	mg/l	0.05	1	6010B	10-Apr	MG
Vol atile Organi cs by GC/MS 8260				1	8260B	10-Apr	BT
Methyl ene chl ori de	ND	ug/l	5.0				
1,1-Di chl oroethane	ND	ug/l	1.5				
Chl oroform	ND	ug/l	1.5				
Carbon tetrachl ori de	ND	ug/l	1.0				
1,2-Di chl oropropane	ND	ug/l	3.5				
Di bromochl oromethane	ND	ug/l	1.0				
1,1,2-Tri chl oroethane	ND	ug/l	1.5				
2-Chl oroethyl vi nyl ether	ND	ug/l	10.				
Tetrachl oroethene	ND	ug/l	1.5				
Chl orobenzene	ND	ug/l	3.5				
Tri chl orofl uoromethane	ND	ug/l	5.0				
1,2-Di chl oroethane	ND	ug/l	1.5				
1,1,1-Tri chl oroethane	ND	ug/l	1.0				
Bromodi chl oromethane	ND	ug/l	1.0				
trans-1,3-Di chl oropropene	ND	ug/l	1.0				
ci s-1,3-Di chl oropropene	ND	ug/l	1.0				
1,1-Di chl oropropene	ND	ug/l	25.				
Bromoform	ND	ug/l	1.0				
1,1,2,2-Tetrachl oroethane	ND	ug/l	1.0				
Benzene	ND	ug/l	1.0				
Tol uene	ND	ug/l	1.5				
Ethyl benzene	ND	ug/l	1.0				

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0002616-14
MW-43D

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Volatile Organics by GC/MS 8260 continued				1	8260B	10-Apr	BT
Chloromethane	ND	ug/l	10.				
Bromomethane	ND	ug/l	2.0				
Vinyl chloride	ND	ug/l	2.0				
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	5.0				
1,3-Dichlorobenzene	ND	ug/l	5.0				
1,4-Dichlorobenzene	ND	ug/l	5.0				
Methyl tert butyl ether	ND	ug/l	10.				
p/m-Xylene	ND	ug/l	1.0				
o-Xylene	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	10.				
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	5.0				
Tetrahydrofuran	ND	ug/l	20.				
2,2-Dichloropropane	ND	ug/l	5.0				
1,2-Dibromoethane	ND	ug/l	5.0				
1,3-Dichloropropane	ND	ug/l	5.0				
1,1,1,2-Tetrachloroethane	ND	ug/l	5.0				
Bromobenzene	ND	ug/l	5.0				
n-Butyl benzene	ND	ug/l	5.0				
sec-Butyl benzene	ND	ug/l	5.0				
tert-Butyl benzene	ND	ug/l	5.0				
o-Chlorotoluene	ND	ug/l	5.0				
p-Chlorotoluene	ND	ug/l	5.0				
1,2-Dibromo-3-chloropropane	ND	ug/l	5.0				
Hexachlorobutadiene	ND	ug/l	5.0				
Isopropyl benzene	ND	ug/l	5.0				
p-Isopropyl toluene	ND	ug/l	5.0				
Naphthalene	ND	ug/l	5.0				
n-Propyl benzene	ND	ug/l	5.0				
1,2,3-Trichlorobenzene	ND	ug/l	5.0				
1,2,4-Trichlorobenzene	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: L0002616-14
MW-43D

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Volatile Organics by GC/MS 8260 continued				1	8260B	10-Apr	BT
1, 3, 5-Tri methyl benzene	ND	ug/l	5.0				
1, 2, 4-Tri methyl benzene	ND	ug/l	5.0				
trans-1, 4-Di chl oro-2-butene	ND	ug/l	5.0				
Ethyl ether	ND	ug/l	25.				
Surrogate Recovery							
1, 2-Di chl oroethane-d4	106.	%					
Tol uene-d8	99.0	%					
4-Bromofl uorobenzene	94.0	%					
Di bromofl uoromethane	101.	%					
PAH by GC/MS SIM 8270M				1	8270C-M	10-Apr 12-Apr	MK
Acenaphthene	ND	ug/l	0.16				
2-Chl oronaphthal ene	ND	ug/l	0.16				
Fl uoranthene	ND	ug/l	0.16				
Naphthal ene	ND	ug/l	0.16				
Benzo(a)anthracene	ND	ug/l	0.16				
Benzo(a, e)pyrene	ND	ug/l	0.16				
Benzo(b)fl uoranthene	ND	ug/l	0.16				
Benzo(k)fl uoranthene	ND	ug/l	0.16				
Chrysene	ND	ug/l	0.16				
Acenaphthyl ene	ND	ug/l	0.16				
Anthracene	ND	ug/l	0.16				
Benzo(ghi)peryl ene	ND	ug/l	0.16				
Fl uorene	ND	ug/l	0.16				
Phenanthrene	ND	ug/l	0.16				
Di benzo(a, h)anthracene	ND	ug/l	0.16				
Indeno(1, 2, 3-cd)Pyrene	ND	ug/l	0.16				
Pyrene	ND	ug/l	0.16				
1-Methyl naphthal ene	ND	ug/l	0.16				
2-Methyl naphthal ene	ND	ug/l	0.16				
Surrogate Recovery							
Ni trobenzene-d5	80.0	%					
2-Fl uorobi phenyl	69.0	%					
4-Terphenyl -d14	62.0	%					

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0002616-14
MW-43D

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Extractable Petroleum Hydrocarbons				46	98-1	10-Apr 12-Apr	HL

Quality Control Information

Condition of sample received: Satisfactory
 Aqueous preservative: Laboratory Provided Preserved Container
 Sample temperature upon receipt: Received on Ice
 Sample extraction method: Extracted Per the Method
 Were all QA/QC procedures REQUIRED by the method followed? YES
 Were all performance/acceptance standards for the required procedures achieved? YES
 Were significant modifications made to the method as specified in Sect 11.3? NO
 Please note to subtract the method blank from the stated result.
 The normal acceptance range for the extraction surrogates, Chloro-octadecane and o-Terphenyl, is 40-140%.
 The normal acceptance range for the fractionation surrogates, 2-Fluorobiphenyl and 2-Bromonaphthalene, is 40-140%.

C9-C18 Aliphatics	ND	ug/l	102.
C19-C36 Aliphatics	ND	ug/l	102.
C11-C22 Aromatics	ND	ug/l	102.

Surrogate Recovery

Chloro-Octadecane	71.0	%
o-Terphenyl	89.0	%
2-Fluorobiphenyl	114.	%
2-Bromonaphthalene	100.	%

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA: M-MA-086 NH: 200395-B/C CT: PH-0574 ME: MA086 RI: 65

Laboratory Sample Number: L0002616-15 Date Collected: 06-APR-2000
 MW-43S Date Received: 06-APR-2000
 Sample Matrix: WATER Date Reported: 13-APR-00
 Condition of Sample: Satisfactory Field Prep: Field Filtered
 Number & Type of Containers: 4-Amber, 1-Plastic, 2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Di ssol ved Metals							
Antimony, Di ssol ved	ND	mg/l	0.006	1	6010B	10-Apr	MG
Arseni c, Di ssol ved	ND	mg/l	0.025	1	6010B	12-Apr	MG
Beryl li um, Di ssol ved	ND	mg/l	0.004	1	6010B	10-Apr	MG
Cadmi um, Di ssol ved	ND	mg/l	0.005	1	6010B	10-Apr	MG
Chromi um, Di ssol ved	0.01	mg/l	0.01	1	6010B	10-Apr	MG
Copper, Di ssol ved	ND	mg/l	0.01	1	6010B	10-Apr	MG
Lead, Di ssol ved	ND	mg/l	0.01	1	6010B	10-Apr	MG
Mercury, Di ssol ved	ND	mg/l	0.0005	1	7470A	11-Apr	TT
Ni ckel , Di ssol ved	ND	mg/l	0.025	1	6010B	10-Apr	MG
Sel eni um, Di ssol ved	ND	mg/l	0.025	1	6010B	10-Apr	MG
Si l ver, Di ssol ved	ND	mg/l	0.007	1	6010B	10-Apr	MG
Thal i um, Di ssol ved	ND	mg/l	0.005	1	6010B	12-Apr	MG
Zi nc, Di ssol ved	ND	mg/l	0.05	1	6010B	10-Apr	MG
Vol atile Organi cs by GC 8021				1	8021B	12-Apr	JC
Bromodi chl oromethane	ND	ug/l	5.0				
Bromoform	ND	ug/l	5.0				
Carbon tetrachl ori de	ND	ug/l	5.0				
Chl orobenzene	ND	ug/l	5.0				
Di bromochl oromethane	ND	ug/l	50.				
Bromomethane/Chl oroethane	ND	ug/l	50.				
Chl oroform	ND	ug/l	5.0				
Chl oromethane/Vi nyl chl ori de	ND	ug/l	50.				
1,2-Di chl orobenzene	ND	ug/l	5.0				
1,3-Di chl orobenzene	ND	ug/l	5.0				
1,4-Di chl orobenzene	ND	ug/l	5.0				
Di chl orodi fl uoromethane	ND	ug/l	50.				
1,1-Di chl oroethane	ND	ug/l	5.0				
1,2-Di chl oroethane	ND	ug/l	5.0				
1,1-Di chl oroethene	ND	ug/l	5.0				
ci s-1,2-Di chl oroethene	9.6	ug/l	5.0				
trans-1,2-Di chl oroethene	ND	ug/l	5.0				
1,2-Di chl oropropane	ND	ug/l	5.0				
ci s-1,3-Di chl oropropene	ND	ug/l	5.0				
trans-1,3-Di chl oropropene	ND	ug/l	5.0				
Methyl ene chl ori de	ND	ug/l	50.				
1,1,2,2-Tetrachl oroethane	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: L0002616-15
MW-43S

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Volatile Organics by GC 8021 continued				1	8021B	12-Apr	JC
Tetrachloroethene	ND	ug/l	5.0				
1,1,1-Trichloroethane	ND	ug/l	5.0				
1,1,2-Trichloroethane	ND	ug/l	5.0				
Trichloroethene	560	ug/l	5.0				
Trichlorofluoromethane	ND	ug/l	5.0				
2-Chloroethyl vinyl ether	ND	ug/l	50.				
Surrogate Recovery							
4-Bromochlorobenzene	84.0	%					
PAH by GC/MS SIM 8270M				1	8270C-M	10-Apr 12-Apr	MK
Acenaphthene	ND	ug/l	0.14				
2-Chloronaphthalene	ND	ug/l	0.14				
Fluoranthene	ND	ug/l	0.14				
Naphthalene	ND	ug/l	0.14				
Benzo(a)anthracene	ND	ug/l	0.14				
Benzo(a,e)pyrene	ND	ug/l	0.14				
Benzo(b)fluoranthene	ND	ug/l	0.14				
Benzo(k)fluoranthene	ND	ug/l	0.14				
Chrysene	ND	ug/l	0.14				
Acenaphthylene	ND	ug/l	0.14				
Anthracene	ND	ug/l	0.14				
Benzo(ghi)perylene	ND	ug/l	0.14				
Fluorene	ND	ug/l	0.14				
Phenanthrene	ND	ug/l	0.14				
Di benzo(a,h)anthracene	ND	ug/l	0.14				
Indeno(1,2,3-cd)Pyrene	ND	ug/l	0.14				
Pyrene	ND	ug/l	0.14				
1-Methylnaphthalene	ND	ug/l	0.14				
2-Methylnaphthalene	ND	ug/l	0.14				
Surrogate Recovery							
Nitrobenzene-d5	91.0	%					
2-Fluorobiphenyl	80.0	%					
4-Terphenyl -d14	91.0	%					

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0002616-15
MW-43S

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Extractable Petroleum Hydrocarbons				46	98-1	10-Apr 12-Apr	HL

Quality Control Information

Condition of sample received: Satisfactory
 Aqueous preservative: Laboratory Provided Preserved Container
 Sample temperature upon receipt: Received on Ice
 Sample extraction method: Extracted Per the Method
 Were all QA/QC procedures REQUIRED by the method followed? YES
 Were all performance/acceptance standards for the required procedures achieved? YES
 Were significant modifications made to the method as specified in Sect 11.3? NO
 Please note to subtract the method blank from the stated result.
 The normal acceptance range for the extraction surrogates, Chloro-octadecane and o-Terphenyl, is 40-140%.
 The normal acceptance range for the fractionation surrogates, 2-Fluorobiphenyl and 2-Bromonaphthalene, is 40-140%.

C9-C18 Aliphatics	ND	ug/l	105.
C19-C36 Aliphatics	ND	ug/l	105.
C11-C22 Aromatics	ND	ug/l	105.

Surrogate Recovery

Chloro-Octadecane	62.0	%
o-Terphenyl	103.	%
2-Fluorobiphenyl	130.	%
2-Bromonaphthalene	122.	%

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA: M-MA-086 NH: 200395-B/C CT: PH-0574 ME: MA086 RI: 65

Laboratory Sample Number: L0002616-16	Date Collected: 06-APR-2000
	Date Received : 06-APR-2000
Sample Matrix: MW-46S WATER	Date Reported : 13-APR-00
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 8021				1	8021B	10-Apr	JC
Bromodichloromethane	ND	ug/l	1.0				
Bromoform	ND	ug/l	1.0				
Carbon tetrachloride	ND	ug/l	1.0				
Chlorobenzene	ND	ug/l	1.0				
Dibromochloromethane	ND	ug/l	10.				
Bromomethane/Chloroethane	ND	ug/l	10.				
Chloroform	ND	ug/l	1.0				
Chloromethane/Vinyl chloride	ND	ug/l	10.				
1,2-Dichlorobenzene	ND	ug/l	1.0				
1,3-Dichlorobenzene	ND	ug/l	1.0				
1,4-Dichlorobenzene	ND	ug/l	1.0				
Dichlorodifluoromethane	ND	ug/l	10.				
1,1-Dichloroethane	ND	ug/l	1.0				
1,2-Dichloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	1.0				
cis-1,2-Dichloroethene	ND	ug/l	1.0				
trans-1,2-Dichloroethene	ND	ug/l	1.0				
1,2-Dichloropropane	ND	ug/l	1.0				
cis-1,3-Dichloropropene	ND	ug/l	1.0				
trans-1,3-Dichloropropene	ND	ug/l	1.0				
Methylene chloride	ND	ug/l	10.				
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0				
Tetrachloroethene	ND	ug/l	1.0				
1,1,1-Trichloroethane	ND	ug/l	1.0				
1,1,2-Trichloroethane	ND	ug/l	1.0				
Trichloroethene	ND	ug/l	1.0				
Trichlorofluoromethane	ND	ug/l	1.0				
2-Chloroethyl vinyl ether	ND	ug/l	10.				
Surrogate Recovery							
4-Bromochlorobenzene	74.0	%					

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA: M-MA-086 NH: 200395-B/C CT: PH-0574 ME: MA086 RI: 65

Laboratory Sample Number: L0002616-17	Date Collected: 06-APR-2000
	Date Received : 06-APR-2000
Sample Matrix: MW-42S WATER	Date Reported : 13-APR-00
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 8021				1	8021B	10-Apr	JC
Bromodichloromethane	ND	ug/l	1.0				
Bromoform	ND	ug/l	1.0				
Carbon tetrachloride	ND	ug/l	1.0				
Chlorobenzene	ND	ug/l	1.0				
Dibromochloromethane	ND	ug/l	10.				
Bromomethane/Chloroethane	ND	ug/l	10.				
Chloroform	ND	ug/l	1.0				
Chloromethane/Vinyl chloride	ND	ug/l	10.				
1,2-Dichlorobenzene	ND	ug/l	1.0				
1,3-Dichlorobenzene	ND	ug/l	1.0				
1,4-Dichlorobenzene	ND	ug/l	1.0				
Dichlorodifluoromethane	ND	ug/l	10.				
1,1-Dichloroethane	ND	ug/l	1.0				
1,2-Dichloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	1.0				
cis-1,2-Dichloroethene	ND	ug/l	1.0				
trans-1,2-Dichloroethene	ND	ug/l	1.0				
1,2-Dichloropropane	ND	ug/l	1.0				
cis-1,3-Dichloropropene	ND	ug/l	1.0				
trans-1,3-Dichloropropene	ND	ug/l	1.0				
Methylene chloride	ND	ug/l	10.				
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0				
Tetrachloroethene	1.0	ug/l	1.0				
1,1,1-Trichloroethane	ND	ug/l	1.0				
1,1,2-Trichloroethane	ND	ug/l	1.0				
Trichloroethene	3.3	ug/l	1.0				
Trichlorofluoromethane	ND	ug/l	1.0				
2-Chloroethyl vinyl ether	ND	ug/l	10.				
Surrogate Recovery							
4-Bromochlorobenzene	77.0	%					

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA: M-MA-086 NH: 200395-B/C CT: PH-0574 ME: MA086 RI: 65

Laboratory Sample Number: L0002616-18	Date Collected: 06-APR-2000
ERM-DUP 2	Date Received : 06-APR-2000
Sample Matrix: WATER	Date Reported : 13-APR-00
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 8021				1	8021B	12-Apr	JC
Bromodichloromethane	ND	ug/l	10.				
Bromoform	ND	ug/l	10.				
Carbon tetrachloride	ND	ug/l	10.				
Chlorobenzene	ND	ug/l	10.				
Dibromodichloromethane	ND	ug/l	100				
Bromomethane/Chloroethane	ND	ug/l	100				
Chloroform	ND	ug/l	10.				
Chloromethane/Vinyl chloride	ND	ug/l	100				
1,2-Dichlorobenzene	ND	ug/l	10.				
1,3-Dichlorobenzene	ND	ug/l	10.				
1,4-Dichlorobenzene	ND	ug/l	10.				
Dichlorodifluoromethane	ND	ug/l	100				
1,1-Dichloroethane	ND	ug/l	10.				
1,2-Dichloroethane	ND	ug/l	10.				
1,1-Dichloroethene	ND	ug/l	10.				
cis-1,2-Dichloroethene	ND	ug/l	10.				
trans-1,2-Dichloroethene	ND	ug/l	10.				
1,2-Dichloropropane	ND	ug/l	10.				
cis-1,3-Dichloropropene	ND	ug/l	10.				
trans-1,3-Dichloropropene	ND	ug/l	10.				
Methylene chloride	ND	ug/l	100				
1,1,2,2-Tetrachloroethane	ND	ug/l	10.				
Tetrachloroethene	ND	ug/l	10.				
1,1,1-Trichloroethane	ND	ug/l	10.				
1,1,2-Trichloroethane	ND	ug/l	10.				
Trichloroethene	530	ug/l	10.				
Trichlorofluoromethane	ND	ug/l	10.				
2-Chloroethyl vinyl ether	ND	ug/l	100				
Surrogate Recovery							
4-Bromochlorobenzene	74.0	%					

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

ALPHA ANALYTICAL LABORATORIES
 CERTIFICATE OF ANALYSIS

MA: M-MA-086 NH: 200395-B/C CT: PH-0574 ME: MA086 RI: 65

Laboratory Sample Number: L0002616-19 Date Collected: 03-APR-2000
 Sample Matrix: TRIP BLANK Date Received: 06-APR-2000
 WATER Date Reported: 13-APR-00
 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 8260				1	8260B	07-Apr	BT
Methylene chloride	7.4	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-Chloroethyl vinyl 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	1.0				
cis-1,3-Dichloropropene	ND	ug/l	1.0				
1,1-Dichloropropene	ND	ug/l	25.				
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	2.0				
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	5.0				
1,3-Dichlorobenzene	ND	ug/l	5.0				
1,4-Dichlorobenzene	ND	ug/l	5.0				
Methyl tert butyl ether	ND	ug/l	10.				
p/m-Xylene	ND	ug/l	1.0				
o-Xylene	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.				

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0002616-19
TRIP BLANK

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Volatile Organics by GC/MS 8260 continued				1	8260B	07-Apr	BT
Iodomethane	ND	ug/l	10.				
1,2,3-Tri chloropropane	ND	ug/l	10.				
Styrene	ND	ug/l	1.0				
Di chlorodi fluoromethane	ND	ug/l	10.				
Acetone	ND	ug/l	10.				
Carbon di sul fi de	ND	ug/l	10.				
2-Butanone	ND	ug/l	10.				
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.				
Acrol ein	ND	ug/l	25.				
Acryl oni tri le	ND	ug/l	10.				
Bromochl oromethane	ND	ug/l	5.0				
Tetrahydrofuran	ND	ug/l	20.				
2,2-Di chl oropropane	ND	ug/l	5.0				
1,2-Di bromoethane	ND	ug/l	5.0				
1,3-Di chl oropropane	ND	ug/l	5.0				
1,1,1,2-Tetrachl oroethane	ND	ug/l	5.0				
Bromobenzene	ND	ug/l	5.0				
n-Butyl benzene	ND	ug/l	5.0				
sec-Butyl benzene	ND	ug/l	5.0				
tert-Butyl benzene	ND	ug/l	5.0				
o-Chl orotol uene	ND	ug/l	5.0				
p-Chl orotol uene	ND	ug/l	5.0				
1,2-Di bromo-3-chl oropropane	ND	ug/l	5.0				
Hexachl orobutadi ene	ND	ug/l	5.0				
I sopropyl benzene	ND	ug/l	5.0				
p-I sopropyl tol uene	ND	ug/l	5.0				
Naphthal ene	ND	ug/l	5.0				
n-Propyl benzene	ND	ug/l	5.0				
1,2,3-Tri chl orobenzene	ND	ug/l	5.0				
1,2,4-Tri chl orobenzene	ND	ug/l	5.0				
1,3,5-Tri methyl benzene	ND	ug/l	5.0				
1,2,4-Tri methyl benzene	ND	ug/l	5.0				
trans-1,4-Di chl oro-2-butene	ND	ug/l	5.0				
Ethyl ether	ND	ug/l	25.				
Surrogate Recovery							
1,2-Di chl oroethane-d4	117.	%					
Tol uene-d8	101.	%					
4-Bromofl uorobenzene	93.0	%					
Di bromofl uoromethane	108.	%					

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

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L0002616

Parameter	Value 1	Value 2	RPD	Units
Dissolved Metals for sample(s) 14-15 (L0002616-14, WG52416)				
Antimony, Dissolved	ND	ND	NC	mg/l
Arsenic, Dissolved	ND	ND	NC	mg/l
Beryllium, Dissolved	ND	ND	NC	mg/l
Cadmium, Dissolved	ND	ND	NC	mg/l
Chromium, Dissolved	ND	ND	NC	mg/l
Copper, Dissolved	ND	ND	NC	mg/l
Lead, Dissolved	ND	ND	NC	mg/l
Nickel, Dissolved	ND	ND	NC	mg/l
Selenium, Dissolved	ND	ND	NC	mg/l
Silver, Dissolved	ND	ND	NC	mg/l
Thallium, Dissolved	ND	ND	NC	mg/l
Zinc, Dissolved	ND	ND	NC	mg/l
Dissolved Metals for sample(s) 14-15 (L0002616-14, WG52470)				
Mercury, Dissolved	ND	ND	NC	mg/l
Extractable Petroleum Hydrocarbons for sample(s) 14-15 (L0002676-01, WG52438)				
C9-C18 Aliphatics	ND	ND	NC	ug/l
C19-C36 Aliphatics	ND	ND	NC	ug/l
C11-C22 Aromatics	ND	ND	NC	ug/l
Surrogate Recovery				
Chloro-Octadecane	73.0	82.0	12	%
o-Terphenyl	105.	94.0	11	%
2-Fluorobiphenyl	131.	120.	9	%
2-Bromonaphthalene	128.	114.	12	%

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0002616

Parameter	% Recovery
Dissolved Metals LCS for sample(s) 14-15 (WG52470)	
Mercury, Dissolved	112
PAH by GC/MS SIM 8270M LCS for sample(s) 14-15 (WG52436)	
Acenaphthene	80
Pyrene	88
Surrogate Recovery	
Nitrobenzene-d5	84
2-Fluorophenyl	74
4-Terphenyl -d14	80
Extractable Petroleum Hydrocarbons LCS for sample(s) 14-15 (WG52438)	
Naphthalene	87
Acenaphthene	107
Anthracene	104
Pyrene	93
Chrysene	92
Nonane (C9)	43
Tetradecane (C14)	102
Nonadecane (C19)	116
Eicosane (C20)	121
Octacosane (C28)	111
Surrogate Recovery	
Chloro-Octadecane	105
o-Terphenyl	103
2-Fluorophenyl	117
2-Bromonaphthalene	104
Dissolved Metals SPIKE for sample(s) 14-15 (L0002616-15, WG52416)	
Antimony, Dissolved	110
Arsenic, Dissolved	94
Beryllium, Dissolved	108
Cadmium, Dissolved	104
Chromium, Dissolved	100
Copper, Dissolved	120
Lead, Dissolved	94
Nickel, Dissolved	106
Selenium, Dissolved	106
Silver, Dissolved	100
Thallium, Dissolved	94
Zinc, Dissolved	110
Dissolved Metals SPIKE for sample(s) 14-15 (L0002616-15, WG52470)	
Mercury, Dissolved	106

ALPHA ANALYTICAL LABORATORIES
 QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

Laboratory Job Number: L0002616

Parameter	MS %	MSD %	RPD
Volatile Organics by GC 8021 for sample(s) 01-05, 07-08, 11, 16-17 (L0002585-11, WG52352)			
Chlorobenzene	97	98	2
1,1-Dichloroethene	92	98	6
Trichloroethene	95	91	4
Volatile Organics by GC 8021 for sample(s) 06, 09-10, 12-13, 15, 18 (L0002616-10, WG52501)			
Chlorobenzene	91	90	1
1,1-Dichloroethene	104	107	3
Trichloroethene	94	93	1
Volatile Organics by GC/MS 8260 for sample(s) 14, 19 (L0002585-12, WG52209)			
Chlorobenzene	107	96	11
Benzene	107	97	10
Toluene	113	101	11
1,1-Dichloroethene	107	93	14
Trichloroethene	110	100	10
PAH by GC/MS SIM 8270M for sample(s) 14-15 (L0002616-14, WG52436)			
Acenaphthene	87	82	6
Pyrene	87	87	0

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0002616

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
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Blank Analysis for sample(s) 14-15

Di ssol ved Metals

Mercury, Di ssol ved	ND	mg/l	0.0005	1	7470A	11-Apr 11-Apr	TT
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Blank Analysis for sample(s) 01-05, 07-08, 11, 16-17

Volatile Organics by GC 8021				1	8021B	09-Apr	JC
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Bromodi chl oromethane	ND	ug/l	1.0				
Bromoform	ND	ug/l	1.0				
Carbon tetrachl ori de	ND	ug/l	1.0				
Chl orobenzene	ND	ug/l	1.0				
Di bromochl oromethane	ND	ug/l	10.				
Bromomethane/Chl oroethane	ND	ug/l	10.				
Chl oroform	ND	ug/l	1.0				
Chl oromethane/Vi nyl chl ori de	ND	ug/l	10.				
1, 2-Di chl orobenzene	ND	ug/l	1.0				
1, 3-Di chl orobenzene	ND	ug/l	1.0				
1, 4-Di chl orobenzene	ND	ug/l	1.0				
Di chl orodi fl uoromethane	ND	ug/l	10.				
1, 1-Di chl oroethane	ND	ug/l	1.0				
1, 2-Di chl oroethane	ND	ug/l	1.0				
1, 1-Di chl oroethene	ND	ug/l	1.0				
ci s-1, 2-Di chl oroethene	ND	ug/l	1.0				
trans-1, 2-Di chl oroethene	ND	ug/l	1.0				
1, 2-Di chl oropropane	ND	ug/l	1.0				
ci s-1, 3-Di chl oropropene	ND	ug/l	1.0				
trans-1, 3-Di chl oropropene	ND	ug/l	1.0				
Methyl ene chl ori de	ND	ug/l	10.				
1, 1, 2, 2-Tetrachl oroethane	ND	ug/l	1.0				
Tetrachl oroethene	ND	ug/l	1.0				
1, 1, 1-Tri chl oroethane	ND	ug/l	1.0				
1, 1, 2-Tri chl oroethane	ND	ug/l	1.0				
Tri chl oroethene	ND	ug/l	1.0				
Tri chl orofl uoromethane	ND	ug/l	1.0				
2-Chl oroethyl vi nyl ether	ND	ug/l	10.				

Surrogate Recovery

4-Bromochl orobenzene	82.0	%					
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Blank Analysis for sample(s) 06, 09-10, 12-13

Volatile Organics by GC 8021				1	8021B	10-Apr	JC
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Bromodi chl oromethane	ND	ug/l	1.0				
Bromoform	ND	ug/l	1.0				
Carbon tetrachl ori de	ND	ug/l	1.0				
Chl orobenzene	ND	ug/l	1.0				
Di bromochl oromethane	ND	ug/l	10.				
Bromomethane/Chl oroethane	ND	ug/l	10.				
Chl oroform	ND	ug/l	1.0				

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0002616

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Blank Analysis for sample(s) 06, 09-10, 12-13							
Volatile Organics by GC 8021 continued				1	8021B	10-Apr	JC
Chloromethane/Vinyl chloride	ND	ug/l	10.				
1, 2-Dichlorobenzene	ND	ug/l	1.0				
1, 3-Dichlorobenzene	ND	ug/l	1.0				
1, 4-Dichlorobenzene	ND	ug/l	1.0				
Dichlorodifluoromethane	ND	ug/l	10.				
1, 1-Dichloroethane	ND	ug/l	1.0				
1, 2-Dichloroethane	ND	ug/l	1.0				
1, 1-Dichloroethene	ND	ug/l	1.0				
cis-1, 2-Dichloroethene	ND	ug/l	1.0				
trans-1, 2-Dichloroethene	ND	ug/l	1.0				
1, 2-Dichloropropane	ND	ug/l	1.0				
cis-1, 3-Dichloropropene	ND	ug/l	1.0				
trans-1, 3-Dichloropropene	ND	ug/l	1.0				
Methylene chloride	ND	ug/l	10.				
1, 1, 2, 2-Tetrachloroethane	ND	ug/l	1.0				
Tetrachloroethene	ND	ug/l	1.0				
1, 1, 1-Trichloroethane	ND	ug/l	1.0				
1, 1, 2-Trichloroethane	ND	ug/l	1.0				
Trichloroethene	ND	ug/l	1.0				
Trichlorofluoromethane	ND	ug/l	1.0				
2-Chloroethyl vinyl ether	ND	ug/l	10.				

Surrogate Recovery

4-Bromochlorobenzene 91.0 %

Blank Analysis for sample(s) 15, 18							
Volatile Organics by GC 8021				1	8021B	11-Apr	JC
Bromodichloromethane	ND	ug/l	1.0				
Bromoform	ND	ug/l	1.0				
Carbon tetrachloride	ND	ug/l	1.0				
Chlorobenzene	ND	ug/l	1.0				
Dibromochloromethane	ND	ug/l	10.				
Bromomethane/Chloroethane	ND	ug/l	10.				
Chloroform	ND	ug/l	1.0				
Chloromethane/Vinyl chloride	ND	ug/l	10.				
1, 2-Dichlorobenzene	ND	ug/l	1.0				
1, 3-Dichlorobenzene	ND	ug/l	1.0				
1, 4-Dichlorobenzene	ND	ug/l	1.0				
Dichlorodifluoromethane	ND	ug/l	10.				
1, 1-Dichloroethane	ND	ug/l	1.0				
1, 2-Dichloroethane	ND	ug/l	1.0				
1, 1-Dichloroethene	ND	ug/l	1.0				
cis-1, 2-Dichloroethene	ND	ug/l	1.0				
trans-1, 2-Dichloroethene	ND	ug/l	1.0				
1, 2-Dichloropropane	ND	ug/l	1.0				
cis-1, 3-Dichloropropene	ND	ug/l	1.0				

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0002616

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
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Blank Analysis for sample(s) 15, 18							
Volatile Organics by GC 8021 continued				1	8021B	11-Apr	JC
trans-1, 3-Dichloropropene	ND	ug/l	1.0				
Methylene chloride	ND	ug/l	10.				
1, 1, 2, 2-Tetrachloroethane	ND	ug/l	1.0				
Tetrachloroethene	ND	ug/l	1.0				
1, 1, 1-Trichloroethane	ND	ug/l	1.0				
1, 1, 2-Trichloroethane	ND	ug/l	1.0				
Trichloroethene	ND	ug/l	1.0				
Trichlorofluoromethane	ND	ug/l	1.0				
2-Chloroethyl vinyl ether	ND	ug/l	10.				

Surrogate Recovery

4-Bromochlorobenzene 92.0 %

Blank Analysis for sample(s) 19							
Volatile Organics by GC/MS 8260				1	8260B	07-Apr	BT
Methylene chloride	ND	ug/l	2.5				
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				
Di bromochloromethane	ND	ug/l	0.50				
1, 1, 2-Trichloroethane	ND	ug/l	0.75				
2-Chloroethyl vinyl ether	ND	ug/l	5.0				
Tetrachloroethene	ND	ug/l	0.75				
Chlorobenzene	ND	ug/l	1.8				
Trichlorofluoromethane	ND	ug/l	2.5				
1, 2-Dichloroethane	ND	ug/l	0.75				
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-Dichloropropane	ND	ug/l	12.				
Bromoform	ND	ug/l	0.50				
1, 1, 2, 2-Tetrachloroethane	ND	ug/l	0.50				
Benzene	ND	ug/l	0.50				
Toluene	ND	ug/l	0.75				
Ethyl benzene	ND	ug/l	0.50				
Chloromethane	ND	ug/l	5.0				
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	0.75				
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				

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0002616

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Blank Analysis for sample(s) 19							
Volatile Organics by GC/MS 8260 continued				1	8260B	07-Apr	BT
1,4-Dichlorobenzene	ND	ug/l	2.5				
Methyl tert butyl ether	ND	ug/l	5.0				
p/m-Xylene	ND	ug/l	0.50				
o-Xylene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
Dibromomethane	ND	ug/l	5.0				
1,4-Dichlorobutane	ND	ug/l	5.0				
Iodomethane	ND	ug/l	5.0				
1,2,3-Trichloropropane	ND	ug/l	5.0				
Styrene	ND	ug/l	0.50				
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				
Vinyl acetate	ND	ug/l	5.0				
4-Methyl-2-pentanone	ND	ug/l	5.0				
2-Hexanone	ND	ug/l	5.0				
Ethyl methacrylate	ND	ug/l	5.0				
Acrolein	ND	ug/l	12.				
Acrylonitrile	ND	ug/l	5.0				
Bromochloromethane	ND	ug/l	2.5				
Tetrahydrofuran	ND	ug/l	10.				
2,2-Dichloropropane	ND	ug/l	2.5				
1,2-Dibromoethane	ND	ug/l	2.5				
1,3-Dichloropropane	ND	ug/l	2.5				
1,1,1,2-Tetrachloroethane	ND	ug/l	2.5				
Bromobenzene	ND	ug/l	2.5				
n-Butyl benzene	ND	ug/l	2.5				
sec-Butyl benzene	ND	ug/l	2.5				
tert-Butyl benzene	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	2.5				
Isopropyl benzene	ND	ug/l	2.5				
p-Isopropyl toluene	ND	ug/l	2.5				
Naphthalene	ND	ug/l	2.5				
n-Propyl benzene	ND	ug/l	2.5				
1,2,3-Trichlorobenzene	ND	ug/l	2.5				
1,2,4-Trichlorobenzene	ND	ug/l	2.5				
1,3,5-Triethyl benzene	ND	ug/l	2.5				
1,2,4-Triethyl benzene	ND	ug/l	2.5				
trans-1,4-Dichloro-2-butene	ND	ug/l	2.5				
Ethyl ether	ND	ug/l	12.				

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0002616

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Blank Analysis for sample(s) 19							
Volatile Organics by GC/MS 8260 continued				1	8260B	07-Apr	BT
Surrogate Recovery							
1,2-Dichloroethane-d4	110.	%					
Toluene-d8	103.	%					
4-Bromofluorobenzene	99.0	%					
Dibromofluoromethane	103.	%					
Blank Analysis for sample(s) 14							
Volatile Organics by GC/MS 8260				1	8260B	10-Apr	BT
Methylene chloride	ND	ug/l	2.5				
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				
2-Chloroethyl vinyl ether	ND	ug/l	5.0				
Tetrachloroethene	ND	ug/l	0.75				
Chlorobenzene	ND	ug/l	1.8				
Trichlorofluoromethane	ND	ug/l	2.5				
1,2-Dichloroethane	ND	ug/l	0.75				
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	12.				
Bromoform	ND	ug/l	0.50				
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	5.0				
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	0.75				
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	5.0				
p/m-Xylene	ND	ug/l	0.50				
o-Xylene	ND	ug/l	0.50				
cis-1,2-Dichloroethene	ND	ug/l	0.50				
Dibromomethane	ND	ug/l	5.0				
1,4-Dichlorobutane	ND	ug/l	5.0				

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0002616

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Blank Analysis for sample(s) 14							
Volatile Organics by GC/MS 8260 continued				1	8260B	10-Apr	BT
Iodomethane	ND	ug/l	5.0				
1, 2, 3-Tri chloropropane	ND	ug/l	5.0				
Styrene	ND	ug/l	0.50				
Di chloro di fluoromethane	ND	ug/l	5.0				
Acetone	ND	ug/l	5.0				
Carbon di sulfide	ND	ug/l	5.0				
2-Butanone	ND	ug/l	5.0				
Vinyl acetate	ND	ug/l	5.0				
4-Methyl -2-pentanone	ND	ug/l	5.0				
2-Hexanone	ND	ug/l	5.0				
Ethyl methacrylate	ND	ug/l	5.0				
Acrolein	ND	ug/l	12.				
Acrylonitrile	ND	ug/l	5.0				
Bromochloromethane	ND	ug/l	2.5				
Tetrahydrofuran	ND	ug/l	10.				
2, 2-Di chloropropane	ND	ug/l	2.5				
1, 2-Di bromoethane	ND	ug/l	2.5				
1, 3-Di chloropropane	ND	ug/l	2.5				
1, 1, 1, 2-Tetrachloroethane	ND	ug/l	2.5				
Bromobenzene	ND	ug/l	2.5				
n-Butyl benzene	ND	ug/l	2.5				
sec-Butyl benzene	ND	ug/l	2.5				
tert-Butyl benzene	ND	ug/l	2.5				
o-Chlorotoluene	ND	ug/l	2.5				
p-Chlorotoluene	ND	ug/l	2.5				
1, 2-Di bromo-3-chloropropane	ND	ug/l	2.5				
Hexachlorobutadiene	ND	ug/l	2.5				
Isopropyl benzene	ND	ug/l	2.5				
p-Isopropyl toluene	ND	ug/l	2.5				
Naphthalene	ND	ug/l	2.5				
n-Propyl benzene	ND	ug/l	2.5				
1, 2, 3-Tri chlorobenzene	ND	ug/l	2.5				
1, 2, 4-Tri chlorobenzene	ND	ug/l	2.5				
1, 3, 5-Tri methyl benzene	ND	ug/l	2.5				
1, 2, 4-Tri methyl benzene	ND	ug/l	2.5				
trans-1, 4-Di chloro-2-butene	ND	ug/l	2.5				
Ethyl ether	ND	ug/l	12.				
Surrogate Recovery							
1, 2-Di chloroethane-d4	97.0	%					
Toluene-d8	95.0	%					
4-Bromofluorobenzene	94.0	%					
Di bromofluoromethane	94.0	%					
Blank Analysis for sample(s) 14-15							
PAH by GC/MS SIM 8270M				1	8270C-M	10-Apr 12-Apr	MK

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0002616

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
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Blank Analysis for sample(s) 14-15

PAH by GC/MS SIM 8270M continued				1	8270C-M	10-Apr 12-Apr	MK
Acenaphthene	ND	ug/l	0.20				
2-Chloronaphthalene	ND	ug/l	0.20				
Fluoranthene	ND	ug/l	0.20				
Naphthalene	ND	ug/l	0.20				
Benzo(a)anthracene	ND	ug/l	0.20				
Benzo(a,e)pyrene	ND	ug/l	0.20				
Benzo(b)fluoranthene	ND	ug/l	0.20				
Benzo(k)fluoranthene	ND	ug/l	0.20				
Chrysene	ND	ug/l	0.20				
Acenaphthylene	ND	ug/l	0.20				
Anthracene	ND	ug/l	0.20				
Benzo(ghi)perylene	ND	ug/l	0.20				
Fluorene	ND	ug/l	0.20				
Phenanthrene	ND	ug/l	0.20				
Di benzo(a,h)anthracene	ND	ug/l	0.20				
Indeno(1,2,3-cd)Pyrene	ND	ug/l	0.20				
Pyrene	ND	ug/l	0.20				
1-Methylnaphthalene	ND	ug/l	0.20				
2-Methylnaphthalene	ND	ug/l	0.20				

Surrogate Recovery

Nitrobenzene-d5	81.0	%
2-Fluorobiphenyl	73.0	%
4-Terphenyl-d14	83.0	%

Blank Analysis for sample(s) 14-15

Extractable Petroleum Hydrocarbons				46	98-1	10-Apr 11-Apr	HL
C9-C18 Aliphatics	ND	ug/l	100.				
C19-C36 Aliphatics	ND	ug/l	100.				
C11-C22 Aromatics	ND	ug/l	100.				

Surrogate Recovery

Chloro-Octadecane	87.0	%
o-Terphenyl	93.0	%
2-Fluorobiphenyl	123.	%
2-Bromonaphthalene	117.	%

ALPHA ANALYTICAL LABORATORIES
ADDENDUM I

REFERENCES

1. Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Update III, 1997.
46. Method for the Determination of Extractable Petroleum Hydrocarbons (EPH), Massachusetts Department of Environmental Protection, (MADEP-EPH-98-1), January 1998.

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.

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 its 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, Inc.

Eight Walkup Drive Westborough, MA 01581
 PH: 508.898.9220 FAX: 508.898.9193 www.alphalab.com

CHAIN OF CUSTODY

No 4097

ALPHA JOB #
 Date Rec'd in Lab: 4/6

Sheet 1 of 2

Client Name: ERM - New England
 Client Address: 399 Baylston St. FL6
Boston MA 02116
 Phone #: 617 267 8377 FAX #: 617 267 6447

Project Name: Raytheon-Wayland
 Project Location: Wayland, MA
 Project #: 143.50
 Project Manager: Joe Fiacco

Report To: Matt Daly
 Bill To: _____
 PO#: _____

- Standard TAT
- RUSH TAT _____ (* DAYS)
- FAX Results
- State Forms
- Smart Report

Comments (Please note specific method, detection limit or reporting requirements.)

ANALYSIS REQUEST

Sample ID	Matrix/Source *	Sampling Date	Sampling Time	Sampler's Initials	Solubles: Field Filtered? (Y/N)	2021B Chlorinated only
MW-44M	EW	4/5/00	1440	CA		X
MW-44D			1415	I		
HA-101			1720	MP		
MW-10			1700	I		
MW-34			1630	I		
MW-46M		4/6/00	950	LA		
MW-44S			1115	MP		
MW-41			045	I		
MW-TP3			1000	I		
HA-103			930	I		
MW-32			900	I		

All samples submitted are subject to Alpha's standard Terms and Conditions.

* See Reverse side for Matrix, Container, and Preservative Codes.

of Containers: 22
 Container Type: V
 *rese ve: F

Transfers Accepted By:	Date	Time
<i>[Signature]</i>	4/6/00	1435
<i>[Signature]</i>		
<i>[Signature]</i>		
<i>[Signature]</i>		

ALPHA Analytical Laboratories, Inc.

Eight Walkup Drive Westborough, MA 01581
 PH: 508.898.9220 FAX: 508.898.9193 www.alphalab.com

CHAIN OF CUSTODY

No 4096

Sheet 2 of 2

Date Rec'd in Lab: 4/6

Client Name: ERM-New England
 Client Address: 399 Boylston St. Fl 6
Boston, MA 02116
 Phone # 617 267 4377 FAX #: 617 267 6447

Project Name: Raytheon - Wayland
 Project Location: Wayland MA
 Project #: 143.50
 Project Manager: Joe Fiocco

Report To: Matt Daly
 Bill To: _____
 PO#: _____

- Standard TAT
- RUSH TAT _____ (* DAYS)
- FAX Results
- State Forms
- Smart Report

Comments (Please note specific method, detection limit or reporting requirements.)

ANALYSIS REQUEST

Sample ID	Matrix/Source *	Sampling Date	Sampling Time	Sampler's Initials	Solubles: Field Filtered? (Y/N)	2021B Chlorine	8260	PAH	EPH	Dissolved Metals
HA-102	GW	4/6/00	830	MD		X				
HA-104			1230	I		X				
MW-43D			845	LA			X	X	X	X
MW-43S			1115			X		X	X	X
MW-46S			1020			X		X	X	X
MW-42S			1050			X				
ERM-Dupa		4/6/00	700			X				
trip blank		4/3	930				X			

Transfers Relinquished By:	Date	Time
<i>[Signature]</i>	4/6	1435
<i>[Signature]</i>	4/6	1435

All samples submitted are subject to Alpha's standard Terms and Conditions.

* See Reverse side for Matrix, Container, and Preservative Codes.

# of Containers:	10	2	4	4	2
Container Type: *	V	V	A	A	P
Preservative: *	R	B	A	A	C

ALPHA ANALYTICAL LABORATORIES

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

MA: M-MA-086 NH: 200395-B/C CT: PH-0574 ME: MA086 RI: 65

CERTIFICATE OF ANALYSIS

Client: ERM-New England Laboratory Job Number: L0005297
Address: 399 Boylston Street Invoice Number: 38527
6th Floor
Boston, MA 02116 Date Received: 10-JUL-00
Attn: Rachel Chenail Date Reported: 14-JUL-00
Project Number: 143.50 Delivery Method: Alpha
Site: RAYTHEON

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0005297-01	MW-33S	WAYLAND, MA
L0005297-02	MW-33M	WAYLAND, MA
L0005297-03	MW-33D	WAYLAND, MA
L0005297-04	MW-37	WAYLAND, MA
L0005297-05	MW-37M	WAYLAND, MA
L0005297-06	MW-43S	WAYLAND, MA
L0005297-07	MW-43D	WAYLAND, MA
L0005297-08	MW-45S	WAYLAND, MA
L0005297-09	MW-45M	WAYLAND, MA
L0005297-10	MW-45D	WAYLAND, MA
L0005297-11	MW-46S	WAYLAND, MA
L0005297-12	MW-46M	WAYLAND, MA
L0005297-13	MW-47S	WAYLAND, MA
L0005297-14	MW-47M	WAYLAND, MA
L0005297-15	MW-47D	WAYLAND, MA
L0005297-16	HA-102	WAYLAND, MA

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately 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.

Authorized by: _____

James R. Roth, PhD - Laboratory Manager

ALPHA ANALYTICAL LABORATORIES

Laboratory Job Number: L0005297
Date Reported: 14-JUL-00

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0005297-17	HA-103	WAYLAND, MA
L0005297-18	DUP1	WAYLAND, MA
L0005297-19	DUP2	WAYLAND, MA
L0005297-20	TRIP BLANK	WAYLAND, MA

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA: M-MA-086 NH: 200395-B/C CT: PH-0574 ME: MA086 RI: 65

Laboratory Sample Number: L0005297-01	Date Collected: 10-JUL-2000
	Date Received : 10-JUL-2000
Sample Matrix: MW-33S WATER	Date Reported : 14-JUL-00
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 8021				1	8021B	12-Jul	JC
Bromodichloromethane	ND	ug/l	5.0				
Bromoform	ND	ug/l	5.0				
Carbon tetrachloride	ND	ug/l	5.0				
Chlorobenzene	ND	ug/l	5.0				
Dibromodichloromethane	ND	ug/l	50.				
Bromomethane/Chloroethane	ND	ug/l	50.				
Chloroform	ND	ug/l	5.0				
Chloromethane/Vinyl chloride	ND	ug/l	50.				
1,2-Dichlorobenzene	ND	ug/l	5.0				
1,3-Dichlorobenzene	ND	ug/l	5.0				
1,4-Dichlorobenzene	ND	ug/l	5.0				
Dichlorodifluoromethane	ND	ug/l	50.				
1,1-Dichloroethane	ND	ug/l	5.0				
1,2-Dichloroethane	ND	ug/l	5.0				
1,1-Dichloroethene	ND	ug/l	5.0				
cis-1,2-Dichloroethene	ND	ug/l	5.0				
trans-1,2-Dichloroethene	ND	ug/l	5.0				
1,2-Dichloropropane	ND	ug/l	5.0				
cis-1,3-Dichloropropene	ND	ug/l	5.0				
trans-1,3-Dichloropropene	ND	ug/l	5.0				
Methylene chloride	ND	ug/l	50.				
1,1,2,2-Tetrachloroethane	ND	ug/l	5.0				
Tetrachloroethene	ND	ug/l	5.0				
1,1,1-Trichloroethane	40.	ug/l	5.0				
1,1,2-Trichloroethane	ND	ug/l	5.0				
Trichloroethene	170	ug/l	5.0				
Trichlorofluoromethane	ND	ug/l	5.0				
2-Chloroethyl vinyl ether	ND	ug/l	50.				
Surrogate Recovery							
4-Bromochlorobenzene	79.0	%					

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

ALPHA ANALYTICAL LABORATORIES
 CERTIFICATE OF ANALYSIS

MA: M-MA-086 NH: 200395-B/C CT: PH-0574 ME: MA086 RI: 65

Laboratory Sample Number: L0005297-02 Date Collected: 10-JUL-2000
 MW-33M Date Received: 10-JUL-2000
 Sample Matrix: WATER Date Reported: 14-JUL-00
 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 8021				1	8021B	11-Jul	JC
Bromodichloromethane	ND	ug/l	1.0				
Bromoform	ND	ug/l	1.0				
Carbon tetrachloride	ND	ug/l	1.0				
Chlorobenzene	ND	ug/l	1.0				
Dibromochloromethane	ND	ug/l	10.				
Bromomethane/Chloroethane	ND	ug/l	10.				
Chloroform	ND	ug/l	1.0				
Chloromethane/Vinyl chloride	ND	ug/l	10.				
1,2-Dichlorobenzene	ND	ug/l	1.0				
1,3-Dichlorobenzene	ND	ug/l	1.0				
1,4-Dichlorobenzene	ND	ug/l	1.0				
Dichlorodifluoromethane	ND	ug/l	10.				
1,1-Dichloroethane	ND	ug/l	1.0				
1,2-Dichloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	1.0				
cis-1,2-Dichloroethene	ND	ug/l	1.0				
trans-1,2-Dichloroethene	ND	ug/l	1.0				
1,2-Dichloropropane	ND	ug/l	1.0				
cis-1,3-Dichloropropene	ND	ug/l	1.0				
trans-1,3-Dichloropropene	ND	ug/l	1.0				
Methylene chloride	ND	ug/l	10.				
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0				
Tetrachloroethene	ND	ug/l	1.0				
1,1,1-Trichloroethane	ND	ug/l	1.0				
1,1,2-Trichloroethane	ND	ug/l	1.0				
Trichloroethene	1.8	ug/l	1.0				
Trichlorofluoromethane	ND	ug/l	1.0				
2-Chloroethyl vinyl ether	ND	ug/l	10.				
Surrogate Recovery							
4-Bromochlorobenzene	92.0	%					

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA: M-MA-086 NH: 200395-B/C CT: PH-0574 ME: MA086 RI: 65

Laboratory Sample Number: L0005297-03	Date Collected: 10-JUL-2000
	Date Received : 10-JUL-2000
Sample Matrix: MW-33D WATER	Date Reported : 14-JUL-00
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 8021				1	8021B	11-Jul	JC
Bromodichloromethane	ND	ug/l	1.0				
Bromoform	ND	ug/l	1.0				
Carbon tetrachloride	ND	ug/l	1.0				
Chlorobenzene	ND	ug/l	1.0				
Dibromodichloromethane	ND	ug/l	10.				
Bromomethane/Chloroethane	ND	ug/l	10.				
Chloroform	ND	ug/l	1.0				
Chloromethane/Vinyl chloride	ND	ug/l	10.				
1,2-Dichlorobenzene	ND	ug/l	1.0				
1,3-Dichlorobenzene	ND	ug/l	1.0				
1,4-Dichlorobenzene	ND	ug/l	1.0				
Dichlorodifluoromethane	ND	ug/l	10.				
1,1-Dichloroethane	ND	ug/l	1.0				
1,2-Dichloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	1.0				
cis-1,2-Dichloroethene	ND	ug/l	1.0				
trans-1,2-Dichloroethene	ND	ug/l	1.0				
1,2-Dichloropropane	ND	ug/l	1.0				
cis-1,3-Dichloropropene	ND	ug/l	1.0				
trans-1,3-Dichloropropene	ND	ug/l	1.0				
Methylene chloride	ND	ug/l	10.				
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0				
Tetrachloroethene	ND	ug/l	1.0				
1,1,1-Trichloroethane	ND	ug/l	1.0				
1,1,2-Trichloroethane	ND	ug/l	1.0				
Trichloroethene	ND	ug/l	1.0				
Trichlorofluoromethane	ND	ug/l	1.0				
2-Chloroethyl vinyl ether	ND	ug/l	10.				

Surrogate Recovery

4-Bromochlorobenzene	99.0	%
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Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA: M-MA-086 NH: 200395-B/C CT: PH-0574 ME: MA086 RI: 65

Laboratory Sample Number: L0005297-04	Date Collected: 10-JUL-2000
Sample Matrix: MW-37	Date Received: 10-JUL-2000
Sample Matrix: WATER	Date Reported: 14-JUL-00
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 8021				1	8021B	11-Jul	JC
Bromodichloromethane	ND	ug/l	1.0				
Bromoform	ND	ug/l	1.0				
Carbon tetrachloride	ND	ug/l	1.0				
Chlorobenzene	ND	ug/l	1.0				
Dibromodichloromethane	ND	ug/l	10.				
Bromomethane/Chloroethane	ND	ug/l	10.				
Chloroform	ND	ug/l	1.0				
Chloromethane/Vinyl chloride	ND	ug/l	10.				
1,2-Dichlorobenzene	ND	ug/l	1.0				
1,3-Dichlorobenzene	ND	ug/l	1.0				
1,4-Dichlorobenzene	ND	ug/l	1.0				
Dichlorodifluoromethane	ND	ug/l	10.				
1,1-Dichloroethane	ND	ug/l	1.0				
1,2-Dichloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	1.0				
cis-1,2-Dichloroethene	ND	ug/l	1.0				
trans-1,2-Dichloroethene	ND	ug/l	1.0				
1,2-Dichloropropane	ND	ug/l	1.0				
cis-1,3-Dichloropropene	ND	ug/l	1.0				
trans-1,3-Dichloropropene	ND	ug/l	1.0				
Methylene chloride	ND	ug/l	10.				
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0				
Tetrachloroethene	ND	ug/l	1.0				
1,1,1-Trichloroethane	ND	ug/l	1.0				
1,1,2-Trichloroethane	ND	ug/l	1.0				
Trichloroethene	1.0	ug/l	1.0				
Trichlorofluoromethane	ND	ug/l	1.0				
2-Chloroethyl vinyl ether	ND	ug/l	10.				
Surrogate Recovery							
4-Bromochlorobenzene	89.0	%					

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA: M-MA-086 NH: 200395-B/C CT: PH-0574 ME: MA086 RI: 65

Laboratory Sample Number:	L0005297-05	Date Collected:	10-JUL-2000
	MW-37M	Date Received :	10-JUL-2000
Sample Matrix:	WATER	Date Reported :	14-JUL-00
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 8021				1	8021B	11-Jul	JC
Bromodichloromethane	ND	ug/l	1.0				
Bromoform	ND	ug/l	1.0				
Carbon tetrachloride	ND	ug/l	1.0				
Chlorobenzene	ND	ug/l	1.0				
Dibromochloromethane	ND	ug/l	10.				
Bromomethane/Chloroethane	ND	ug/l	10.				
Chloroform	ND	ug/l	1.0				
Chloromethane/Vinyl chloride	ND	ug/l	10.				
1,2-Dichlorobenzene	ND	ug/l	1.0				
1,3-Dichlorobenzene	ND	ug/l	1.0				
1,4-Dichlorobenzene	ND	ug/l	1.0				
Dichlorodifluoromethane	ND	ug/l	10.				
1,1-Dichloroethane	ND	ug/l	1.0				
1,2-Dichloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	1.0				
cis-1,2-Dichloroethene	ND	ug/l	1.0				
trans-1,2-Dichloroethene	ND	ug/l	1.0				
1,2-Dichloropropane	ND	ug/l	1.0				
cis-1,3-Dichloropropene	ND	ug/l	1.0				
trans-1,3-Dichloropropene	ND	ug/l	1.0				
Methylene chloride	ND	ug/l	10.				
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0				
Tetrachloroethene	ND	ug/l	1.0				
1,1,1-Trichloroethane	ND	ug/l	1.0				
1,1,2-Trichloroethane	ND	ug/l	1.0				
Trichloroethene	ND	ug/l	1.0				
Trichlorofluoromethane	ND	ug/l	1.0				
2-Chloroethyl vinyl ether	ND	ug/l	10.				

Surrogate Recovery

4-Bromochlorobenzene	87.0	%
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Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA: M-MA-086 NH: 200395-B/C CT: PH-0574 ME: MA086 RI: 65

Laboratory Sample Number: L0005297-06	Date Collected: 10-JUL-2000
	Date Received : 10-JUL-2000
Sample Matrix: MW-43S WATER	Date Reported : 14-JUL-00
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 8021				1	8021B	12-Jul	JC
Bromodichloromethane	ND	ug/l	5.0				
Bromoform	ND	ug/l	5.0				
Carbon tetrachloride	ND	ug/l	5.0				
Chlorobenzene	ND	ug/l	5.0				
Dibromodichloromethane	ND	ug/l	50.				
Bromomethane/Chloroethane	ND	ug/l	50.				
Chloroform	ND	ug/l	5.0				
Chloromethane/Vinyl chloride	ND	ug/l	50.				
1,2-Dichlorobenzene	ND	ug/l	5.0				
1,3-Dichlorobenzene	ND	ug/l	5.0				
1,4-Dichlorobenzene	ND	ug/l	5.0				
Dichlorodifluoromethane	ND	ug/l	50.				
1,1-Dichloroethane	ND	ug/l	5.0				
1,2-Dichloroethane	ND	ug/l	5.0				
1,1-Dichloroethene	ND	ug/l	5.0				
cis-1,2-Dichloroethene	ND	ug/l	5.0				
trans-1,2-Dichloroethene	ND	ug/l	5.0				
1,2-Dichloropropane	ND	ug/l	5.0				
cis-1,3-Dichloropropene	ND	ug/l	5.0				
trans-1,3-Dichloropropene	ND	ug/l	5.0				
Methylene chloride	ND	ug/l	50.				
1,1,2,2-Tetrachloroethane	ND	ug/l	5.0				
Tetrachloroethene	ND	ug/l	5.0				
1,1,1-Trichloroethane	ND	ug/l	5.0				
1,1,2-Trichloroethane	ND	ug/l	5.0				
Trichloroethene	380	ug/l	5.0				
Trichlorofluoromethane	7.0	ug/l	5.0				
2-Chloroethyl vinyl ether	ND	ug/l	50.				
Surrogate Recovery							
4-Bromochlorobenzene	70.0	%					

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA: M-MA-086 NH: 200395-B/C CT: PH-0574 ME: MA086 RI: 65

Laboratory Sample Number: L0005297-07 Date Collected: 10-JUL-2000
 Sample Matrix: MW-43D Date Received: 10-JUL-2000
 WATER Date Reported: 14-JUL-00
 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 8021				1	8021B	12-Jul	JC
Bromodichloromethane	ND	ug/l	1.0				
Bromoform	ND	ug/l	1.0				
Carbon tetrachloride	ND	ug/l	1.0				
Chlorobenzene	ND	ug/l	1.0				
Dibromochloromethane	ND	ug/l	10.				
Bromomethane/Chloroethane	ND	ug/l	10.				
Chloroform	ND	ug/l	1.0				
Chloromethane/Vinyl chloride	ND	ug/l	10.				
1,2-Dichlorobenzene	ND	ug/l	1.0				
1,3-Dichlorobenzene	ND	ug/l	1.0				
1,4-Dichlorobenzene	ND	ug/l	1.0				
Dichlorodifluoromethane	ND	ug/l	10.				
1,1-Dichloroethane	ND	ug/l	1.0				
1,2-Dichloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	1.0				
cis-1,2-Dichloroethene	ND	ug/l	1.0				
trans-1,2-Dichloroethene	ND	ug/l	1.0				
1,2-Dichloropropane	ND	ug/l	1.0				
cis-1,3-Dichloropropene	ND	ug/l	1.0				
trans-1,3-Dichloropropene	ND	ug/l	1.0				
Methylene chloride	ND	ug/l	10.				
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0				
Tetrachloroethene	ND	ug/l	1.0				
1,1,1-Trichloroethane	ND	ug/l	1.0				
1,1,2-Trichloroethane	ND	ug/l	1.0				
Trichloroethene	ND	ug/l	1.0				
Trichlorofluoromethane	ND	ug/l	1.0				
2-Chloroethyl vinyl ether	ND	ug/l	10.				
Surrogate Recovery							
4-Bromochlorobenzene	94.0	%					

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

ALPHA ANALYTICAL LABORATORIES
 CERTIFICATE OF ANALYSIS

MA: M-MA-086 NH: 200395-B/C CT: PH-0574 ME: MA086 RI: 65

Laboratory Sample Number: L0005297-08 Date Collected: 10-JUL-2000
 MW-45S Date Received: 10-JUL-2000
 Sample Matrix: WATER Date Reported: 14-JUL-00
 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 8021				1	8021B	12-Jul	JC
Bromodichloromethane	ND	ug/l	1.0				
Bromoform	ND	ug/l	1.0				
Carbon tetrachloride	ND	ug/l	1.0				
Chlorobenzene	ND	ug/l	1.0				
Dibromochloromethane	ND	ug/l	10.				
Bromomethane/Chloroethane	ND	ug/l	10.				
Chloroform	ND	ug/l	1.0				
Chloromethane/Vinyl chloride	ND	ug/l	10.				
1,2-Dichlorobenzene	ND	ug/l	1.0				
1,3-Dichlorobenzene	ND	ug/l	1.0				
1,4-Dichlorobenzene	ND	ug/l	1.0				
Dichlorodifluoromethane	ND	ug/l	10.				
1,1-Dichloroethane	ND	ug/l	1.0				
1,2-Dichloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	1.0				
cis-1,2-Dichloroethene	ND	ug/l	1.0				
trans-1,2-Dichloroethene	ND	ug/l	1.0				
1,2-Dichloropropane	ND	ug/l	1.0				
cis-1,3-Dichloropropene	ND	ug/l	1.0				
trans-1,3-Dichloropropene	ND	ug/l	1.0				
Methylene chloride	ND	ug/l	10.				
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0				
Tetrachloroethene	1.0	ug/l	1.0				
1,1,1-Trichloroethane	ND	ug/l	1.0				
1,1,2-Trichloroethane	ND	ug/l	1.0				
Trichloroethene	6.0	ug/l	1.0				
Trichlorofluoromethane	ND	ug/l	1.0				
2-Chloroethyl vinyl ether	ND	ug/l	10.				
Surrogate Recovery							
4-Bromochlorobenzene	84.0	%					

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA: M-MA-086 NH: 200395-B/C CT: PH-0574 ME: MA086 RI: 65

Laboratory Sample Number: L0005297-09	Date Collected: 10-JUL-2000
	Date Received : 10-JUL-2000
Sample Matrix: MW-45M WATER	Date Reported : 14-JUL-00
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 8021				1	8021B	12-Jul	JC
Bromodichloromethane	ND	ug/l	1.0				
Bromoform	ND	ug/l	1.0				
Carbon tetrachloride	ND	ug/l	1.0				
Chlorobenzene	ND	ug/l	1.0				
Dibromodichloromethane	ND	ug/l	10.				
Bromomethane/Chloroethane	ND	ug/l	10.				
Chloroform	ND	ug/l	1.0				
Chloromethane/Vinyl chloride	ND	ug/l	10.				
1,2-Dichlorobenzene	ND	ug/l	1.0				
1,3-Dichlorobenzene	ND	ug/l	1.0				
1,4-Dichlorobenzene	ND	ug/l	1.0				
Dichlorodifluoromethane	ND	ug/l	10.				
1,1-Dichloroethane	1.5	ug/l	1.0				
1,2-Dichloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	3.3	ug/l	1.0				
cis-1,2-Dichloroethene	ND	ug/l	1.0				
trans-1,2-Dichloroethene	ND	ug/l	1.0				
1,2-Dichloropropane	ND	ug/l	1.0				
cis-1,3-Dichloropropene	ND	ug/l	1.0				
trans-1,3-Dichloropropene	ND	ug/l	1.0				
Methylene chloride	ND	ug/l	10.				
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0				
Tetrachloroethene	ND	ug/l	1.0				
1,1,1-Trichloroethane	21.	ug/l	1.0				
1,1,2-Trichloroethane	ND	ug/l	1.0				
Trichloroethene	99.	ug/l	1.0				
Trichlorofluoromethane	ND	ug/l	1.0				
2-Chloroethyl vinyl ether	ND	ug/l	10.				
Surrogate Recovery							
4-Bromochlorobenzene	94.0	%					

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA: M-MA-086 NH: 200395-B/C CT: PH-0574 ME: MA086 RI: 65

Laboratory Sample Number:	L0005297-10	Date Collected:	10-JUL-2000
	MW-45D	Date Received :	10-JUL-2000
Sample Matrix:	WATER	Date Reported :	14-JUL-00
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 8021				1	8021B	12-Jul	JC
Bromodichloromethane	ND	ug/l	1.0				
Bromoform	ND	ug/l	1.0				
Carbon tetrachloride	ND	ug/l	1.0				
Chlorobenzene	ND	ug/l	1.0				
Dibromochloromethane	ND	ug/l	10.				
Bromomethane/Chloroethane	ND	ug/l	10.				
Chloroform	ND	ug/l	1.0				
Chloromethane/Vinyl chloride	ND	ug/l	10.				
1,2-Dichlorobenzene	ND	ug/l	1.0				
1,3-Dichlorobenzene	ND	ug/l	1.0				
1,4-Dichlorobenzene	ND	ug/l	1.0				
Dichlorodifluoromethane	ND	ug/l	10.				
1,1-Dichloroethane	ND	ug/l	1.0				
1,2-Dichloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	1.0				
cis-1,2-Dichloroethene	3.1	ug/l	1.0				
trans-1,2-Dichloroethene	ND	ug/l	1.0				
1,2-Dichloropropane	ND	ug/l	1.0				
cis-1,3-Dichloropropene	ND	ug/l	1.0				
trans-1,3-Dichloropropene	ND	ug/l	1.0				
Methylene chloride	ND	ug/l	10.				
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0				
Tetrachloroethene	1.9	ug/l	1.0				
1,1,1-Trichloroethane	ND	ug/l	1.0				
1,1,2-Trichloroethane	ND	ug/l	1.0				
Trichloroethene	81.	ug/l	1.0				
Trichlorofluoromethane	ND	ug/l	1.0				
2-Chloroethyl vinyl ether	ND	ug/l	10.				
Surrogate Recovery							
4-Bromochlorobenzene	88.0	%					

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA: M-MA-086 NH: 200395-B/C CT: PH-0574 ME: MA086 RI: 65

Laboratory Sample Number: L0005297-11	Date Collected: 10-JUL-2000
	Date Received : 10-JUL-2000
Sample Matrix: MW-46S WATER	Date Reported : 14-JUL-00
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 8021				1	8021B	12-Jul	JC
Bromodichloromethane	ND	ug/l	1.0				
Bromoform	ND	ug/l	1.0				
Carbon tetrachloride	ND	ug/l	1.0				
Chlorobenzene	ND	ug/l	1.0				
Dibromodichloromethane	ND	ug/l	10.				
Bromomethane/Chloroethane	ND	ug/l	10.				
Chloroform	ND	ug/l	1.0				
Chloromethane/Vinyl chloride	ND	ug/l	10.				
1,2-Dichlorobenzene	ND	ug/l	1.0				
1,3-Dichlorobenzene	ND	ug/l	1.0				
1,4-Dichlorobenzene	ND	ug/l	1.0				
Dichlorodifluoromethane	ND	ug/l	10.				
1,1-Dichloroethane	ND	ug/l	1.0				
1,2-Dichloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	1.0				
cis-1,2-Dichloroethene	ND	ug/l	1.0				
trans-1,2-Dichloroethene	ND	ug/l	1.0				
1,2-Dichloropropane	ND	ug/l	1.0				
cis-1,3-Dichloropropene	ND	ug/l	1.0				
trans-1,3-Dichloropropene	ND	ug/l	1.0				
Methylene chloride	ND	ug/l	10.				
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0				
Tetrachloroethene	ND	ug/l	1.0				
1,1,1-Trichloroethane	ND	ug/l	1.0				
1,1,2-Trichloroethane	ND	ug/l	1.0				
Trichloroethene	ND	ug/l	1.0				
Trichlorofluoromethane	ND	ug/l	1.0				
2-Chloroethyl vinyl ether	ND	ug/l	10.				
Surrogate Recovery							
4-Bromochlorobenzene	95.0	%					

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA: M-MA-086 NH: 200395-B/C CT: PH-0574 ME: MA086 RI: 65

Laboratory Sample Number: L0005297-12	Date Collected: 10-JUL-2000
	Date Received : 10-JUL-2000
Sample Matrix: MW-46M WATER	Date Reported : 14-JUL-00
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 8021				1	8021B	12-Jul	JC
Bromodichloromethane	ND	ug/l	1.0				
Bromoform	ND	ug/l	1.0				
Carbon tetrachloride	ND	ug/l	1.0				
Chlorobenzene	ND	ug/l	1.0				
Dibromochloromethane	ND	ug/l	10.				
Bromomethane/Chloroethane	ND	ug/l	10.				
Chloroform	ND	ug/l	1.0				
Chloromethane/Vinyl chloride	ND	ug/l	10.				
1,2-Dichlorobenzene	ND	ug/l	1.0				
1,3-Dichlorobenzene	ND	ug/l	1.0				
1,4-Dichlorobenzene	ND	ug/l	1.0				
Dichlorodifluoromethane	ND	ug/l	10.				
1,1-Dichloroethane	ND	ug/l	1.0				
1,2-Dichloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	1.5	ug/l	1.0				
cis-1,2-Dichloroethene	ND	ug/l	1.0				
trans-1,2-Dichloroethene	ND	ug/l	1.0				
1,2-Dichloropropane	ND	ug/l	1.0				
cis-1,3-Dichloropropene	ND	ug/l	1.0				
trans-1,3-Dichloropropene	ND	ug/l	1.0				
Methylene chloride	ND	ug/l	10.				
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0				
Tetrachloroethene	ND	ug/l	1.0				
1,1,1-Trichloroethane	ND	ug/l	1.0				
1,1,2-Trichloroethane	ND	ug/l	1.0				
Trichloroethene	5.4	ug/l	1.0				
Trichlorofluoromethane	ND	ug/l	1.0				
2-Chloroethyl vinyl ether	ND	ug/l	10.				
Surrogate Recovery							
4-Bromochlorobenzene	92.0	%					

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA: M-MA-086 NH: 200395-B/C CT: PH-0574 ME: MA086 RI: 65

Laboratory Sample Number: L0005297-13	Date Collected: 10-JUL-2000
	Date Received : 10-JUL-2000
Sample Matrix: MW-47S WATER	Date Reported : 14-JUL-00
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 8021				1	8021B	13-Jul	JC
Bromodichloromethane	ND	ug/l	1.0				
Bromoform	ND	ug/l	1.0				
Carbon tetrachloride	ND	ug/l	1.0				
Chlorobenzene	ND	ug/l	1.0				
Dibromochloromethane	ND	ug/l	10.				
Bromomethane/Chloroethane	ND	ug/l	10.				
Chloroform	ND	ug/l	1.0				
Chloromethane/Vinyl chloride	ND	ug/l	10.				
1,2-Dichlorobenzene	ND	ug/l	1.0				
1,3-Dichlorobenzene	ND	ug/l	1.0				
1,4-Dichlorobenzene	ND	ug/l	1.0				
Dichlorodifluoromethane	ND	ug/l	10.				
1,1-Dichloroethane	ND	ug/l	1.0				
1,2-Dichloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	1.0				
cis-1,2-Dichloroethene	ND	ug/l	1.0				
trans-1,2-Dichloroethene	ND	ug/l	1.0				
1,2-Dichloropropane	ND	ug/l	1.0				
cis-1,3-Dichloropropene	ND	ug/l	1.0				
trans-1,3-Dichloropropene	ND	ug/l	1.0				
Methylene chloride	ND	ug/l	10.				
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0				
Tetrachloroethene	ND	ug/l	1.0				
1,1,1-Trichloroethane	3.8	ug/l	1.0				
1,1,2-Trichloroethane	ND	ug/l	1.0				
Trichloroethene	13.	ug/l	1.0				
Trichlorofluoromethane	ND	ug/l	1.0				
2-Chloroethyl vinyl ether	ND	ug/l	10.				
Surrogate Recovery							
4-Bromochlorobenzene	105.	%					

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

ALPHA ANALYTICAL LABORATORIES
 CERTIFICATE OF ANALYSIS

MA: M-MA-086 NH: 200395-B/C CT: PH-0574 ME: MA086 RI: 65

Laboratory Sample Number: L0005297-14 Date Collected: 10-JUL-2000
 MW-47M Date Received: 10-JUL-2000
 Sample Matrix: WATER Date Reported: 14-JUL-00
 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 8021				1	8021B	13-Jul	JC
Bromodichloromethane	ND	ug/l	1.0				
Bromoform	ND	ug/l	1.0				
Carbon tetrachloride	ND	ug/l	1.0				
Chlorobenzene	ND	ug/l	1.0				
Dibromochloromethane	ND	ug/l	10.				
Bromomethane/Chloroethane	ND	ug/l	10.				
Chloroform	ND	ug/l	1.0				
Chloromethane/Vinyl chloride	ND	ug/l	10.				
1,2-Dichlorobenzene	ND	ug/l	1.0				
1,3-Dichlorobenzene	ND	ug/l	1.0				
1,4-Dichlorobenzene	ND	ug/l	1.0				
Dichlorodifluoromethane	ND	ug/l	10.				
1,1-Dichloroethane	ND	ug/l	1.0				
1,2-Dichloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	1.0				
cis-1,2-Dichloroethene	4.0	ug/l	1.0				
trans-1,2-Dichloroethene	ND	ug/l	1.0				
1,2-Dichloropropane	ND	ug/l	1.0				
cis-1,3-Dichloropropene	ND	ug/l	1.0				
trans-1,3-Dichloropropene	ND	ug/l	1.0				
Methylene chloride	ND	ug/l	10.				
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0				
Tetrachloroethene	6.2	ug/l	1.0				
1,1,1-Trichloroethane	ND	ug/l	1.0				
1,1,2-Trichloroethane	ND	ug/l	1.0				
Trichloroethene	63.	ug/l	1.0				
Trichlorofluoromethane	ND	ug/l	1.0				
2-Chloroethyl vinyl ether	ND	ug/l	10.				
Surrogate Recovery							
4-Bromochlorobenzene	94.0	%					

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

ALPHA ANALYTICAL LABORATORIES
 CERTIFICATE OF ANALYSIS

MA: M-MA-086 NH: 200395-B/C CT: PH-0574 ME: MA086 RI: 65

Laboratory Sample Number: L0005297-15 Date Collected: 10-JUL-2000
 MW-47D Date Received: 10-JUL-2000
 Sample Matrix: WATER Date Reported: 14-JUL-00
 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 8021				1	8021B	13-Jul	JC
Bromodichloromethane	ND	ug/l	1.0				
Bromoform	ND	ug/l	1.0				
Carbon tetrachloride	ND	ug/l	1.0				
Chlorobenzene	ND	ug/l	1.0				
Dibromochloromethane	ND	ug/l	10.				
Bromomethane/Chloroethane	ND	ug/l	10.				
Chloroform	ND	ug/l	1.0				
Chloromethane/Vinyl chloride	ND	ug/l	10.				
1,2-Dichlorobenzene	ND	ug/l	1.0				
1,3-Dichlorobenzene	ND	ug/l	1.0				
1,4-Dichlorobenzene	ND	ug/l	1.0				
Dichlorodifluoromethane	ND	ug/l	10.				
1,1-Dichloroethane	ND	ug/l	1.0				
1,2-Dichloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	1.0				
cis-1,2-Dichloroethene	ND	ug/l	1.0				
trans-1,2-Dichloroethene	ND	ug/l	1.0				
1,2-Dichloropropane	ND	ug/l	1.0				
cis-1,3-Dichloropropene	ND	ug/l	1.0				
trans-1,3-Dichloropropene	ND	ug/l	1.0				
Methylene chloride	ND	ug/l	10.				
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0				
Tetrachloroethene	1.0	ug/l	1.0				
1,1,1-Trichloroethane	ND	ug/l	1.0				
1,1,2-Trichloroethane	ND	ug/l	1.0				
Trichloroethene	11.	ug/l	1.0				
Trichlorofluoromethane	ND	ug/l	1.0				
2-Chloroethyl vinyl ether	ND	ug/l	10.				
Surrogate Recovery							
4-Bromochlorobenzene	92.0	%					

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA: M-MA-086 NH: 200395-B/C CT: PH-0574 ME: MA086 RI: 65

Laboratory Sample Number: L0005297-17	Date Collected: 10-JUL-2000
Sample Matrix: HA-103	Date Received: 10-JUL-2000
Sample Matrix: WATER	Date Reported: 14-JUL-00
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 8021				1	8021B	12-Jul	JC
Bromodichloromethane	ND	ug/l	1.0				
Bromoform	ND	ug/l	1.0				
Carbon tetrachloride	ND	ug/l	1.0				
Chlorobenzene	ND	ug/l	1.0				
Dibromodichloromethane	ND	ug/l	10.				
Bromomethane/Chloroethane	ND	ug/l	10.				
Chloroform	ND	ug/l	1.0				
Chloromethane/Vinyl chloride	ND	ug/l	10.				
1,2-Dichlorobenzene	ND	ug/l	1.0				
1,3-Dichlorobenzene	ND	ug/l	1.0				
1,4-Dichlorobenzene	ND	ug/l	1.0				
Dichlorodifluoromethane	ND	ug/l	10.				
1,1-Dichloroethane	ND	ug/l	1.0				
1,2-Dichloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	1.0				
cis-1,2-Dichloroethene	ND	ug/l	1.0				
trans-1,2-Dichloroethene	ND	ug/l	1.0				
1,2-Dichloropropane	ND	ug/l	1.0				
cis-1,3-Dichloropropene	ND	ug/l	1.0				
trans-1,3-Dichloropropene	ND	ug/l	1.0				
Methylene chloride	ND	ug/l	10.				
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0				
Tetrachloroethene	ND	ug/l	1.0				
1,1,1-Trichloroethane	ND	ug/l	1.0				
1,1,2-Trichloroethane	ND	ug/l	1.0				
Trichloroethene	ND	ug/l	1.0				
Trichlorofluoromethane	ND	ug/l	1.0				
2-Chloroethyl vinyl ether	ND	ug/l	10.				

Surrogate Recovery

4-Bromochlorobenzene	72.0	%
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Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA: M-MA-086 NH: 200395-B/C CT: PH-0574 ME: MA086 RI: 65

Laboratory Sample Number: L0005297-18	Date Collected: 10-JUL-2000
	Date Received : 10-JUL-2000
Sample Matrix: DUP1	Date Reported : 14-JUL-00
Sample Matrix: WATER	
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 8021				1	8021B	13-Jul	JC
Bromodichloromethane	ND	ug/l	1.0				
Bromoform	ND	ug/l	1.0				
Carbon tetrachloride	ND	ug/l	1.0				
Chlorobenzene	ND	ug/l	1.0				
Dibromochloromethane	ND	ug/l	10.				
Bromomethane/Chloroethane	ND	ug/l	10.				
Chloroform	ND	ug/l	1.0				
Chloromethane/Vinyl chloride	ND	ug/l	10.				
1,2-Dichlorobenzene	ND	ug/l	1.0				
1,3-Dichlorobenzene	ND	ug/l	1.0				
1,4-Dichlorobenzene	ND	ug/l	1.0				
Dichlorodifluoromethane	ND	ug/l	10.				
1,1-Dichloroethane	ND	ug/l	1.0				
1,2-Dichloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	1.0				
cis-1,2-Dichloroethene	ND	ug/l	1.0				
trans-1,2-Dichloroethene	ND	ug/l	1.0				
1,2-Dichloropropane	ND	ug/l	1.0				
cis-1,3-Dichloropropene	ND	ug/l	1.0				
trans-1,3-Dichloropropene	ND	ug/l	1.0				
Methylene chloride	ND	ug/l	10.				
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0				
Tetrachloroethene	ND	ug/l	1.0				
1,1,1-Trichloroethane	ND	ug/l	1.0				
1,1,2-Trichloroethane	ND	ug/l	1.0				
Trichloroethene	5.4	ug/l	1.0				
Trichlorofluoromethane	ND	ug/l	1.0				
2-Chloroethyl vinyl ether	ND	ug/l	10.				
Surrogate Recovery							
4-Bromochlorobenzene	99.0	%					

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

ALPHA ANALYTICAL LABORATORIES
 CERTIFICATE OF ANALYSIS

MA: M-MA-086 NH: 200395-B/C CT: PH-0574 ME: MA086 RI: 65

Laboratory Sample Number: L0005297-19 Date Collected: 10-JUL-2000
 DUP2 Date Received: 10-JUL-2000
 Sample Matrix: WATER Date Reported: 14-JUL-00
 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 8021				1	8021B	13-Jul	JC
Bromodichloromethane	ND	ug/l	1.0				
Bromoform	ND	ug/l	1.0				
Carbon tetrachloride	ND	ug/l	1.0				
Chlorobenzene	ND	ug/l	1.0				
Dibromochloromethane	ND	ug/l	10.				
Bromomethane/Chloroethane	ND	ug/l	10.				
Chloroform	ND	ug/l	1.0				
Chloromethane/Vinyl chloride	ND	ug/l	10.				
1,2-Dichlorobenzene	ND	ug/l	1.0				
1,3-Dichlorobenzene	ND	ug/l	1.0				
1,4-Dichlorobenzene	ND	ug/l	1.0				
Dichlorodifluoromethane	ND	ug/l	10.				
1,1-Dichloroethane	ND	ug/l	1.0				
1,2-Dichloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	1.0				
cis-1,2-Dichloroethene	ND	ug/l	1.0				
trans-1,2-Dichloroethene	ND	ug/l	1.0				
1,2-Dichloropropane	ND	ug/l	1.0				
cis-1,3-Dichloropropene	ND	ug/l	1.0				
trans-1,3-Dichloropropene	ND	ug/l	1.0				
Methylene chloride	ND	ug/l	10.				
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0				
Tetrachloroethene	ND	ug/l	1.0				
1,1,1-Trichloroethane	ND	ug/l	1.0				
1,1,2-Trichloroethane	ND	ug/l	1.0				
Trichloroethene	ND	ug/l	1.0				
Trichlorofluoromethane	ND	ug/l	1.0				
2-Chloroethyl vinyl ether	ND	ug/l	10.				
Surrogate Recovery							
4-Bromochlorobenzene	99.0	%					

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA: M-MA-086 NH: 200395-B/C CT: PH-0574 ME: MA086 RI: 65

Laboratory Sample Number: L0005297-20	Date Collected: 06-JUL-2000
Sample Matrix: TRIP BLANK	Date Received : 10-JUL-2000
Sample Matrix: WATER	Date Reported : 14-JUL-00
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 8021				1	8021B	13-Jul	JC
Bromochloromethane	ND	ug/l	1.0				
Bromoform	ND	ug/l	1.0				
Carbon tetrachloride	ND	ug/l	1.0				
Chlorobenzene	ND	ug/l	1.0				
Dibromochloromethane	ND	ug/l	10.				
Bromomethane/Chloroethane	ND	ug/l	10.				
Chloroform	ND	ug/l	1.0				
Chloromethane/Vinyl chloride	ND	ug/l	10.				
1,2-Dichlorobenzene	ND	ug/l	1.0				
1,3-Dichlorobenzene	ND	ug/l	1.0				
1,4-Dichlorobenzene	ND	ug/l	1.0				
Dichlorodifluoromethane	ND	ug/l	10.				
1,1-Dichloroethane	ND	ug/l	1.0				
1,2-Dichloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	1.0				
cis-1,2-Dichloroethene	ND	ug/l	1.0				
trans-1,2-Dichloroethene	ND	ug/l	1.0				
1,2-Dichloropropane	ND	ug/l	1.0				
cis-1,3-Dichloropropene	ND	ug/l	1.0				
trans-1,3-Dichloropropene	ND	ug/l	1.0				
Methylene chloride	ND	ug/l	10.				
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0				
Tetrachloroethene	ND	ug/l	1.0				
1,1,1-Trichloroethane	ND	ug/l	1.0				
1,1,2-Trichloroethane	ND	ug/l	1.0				
Trichloroethene	ND	ug/l	1.0				
Trichlorofluoromethane	ND	ug/l	1.0				
2-Chloroethyl vinyl ether	ND	ug/l	10.				

Surrogate Recovery

4-Bromochlorobenzene	92.0	%
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Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0005297

Parameter	% Recovery
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Volatile Organics by GC 8021 LCS for sample(s) 14-15, 19 (WG58793)	
Chlorobenzene	110
1,1-Dichloroethene	103
Trichloroethene	105
Surrogate Recovery	
4-Bromochlorobenzene	106

Volatile Organics by GC 8021 LCS for sample(s) 02-10 (WG58793)	
Chlorobenzene	106
1,1-Dichloroethene	112
Trichloroethene	105
Surrogate Recovery	
4-Bromochlorobenzene	110

Volatile Organics by GC 8021 LCS for sample(s) 01, 11-12 (WG58793)	
Chlorobenzene	110
1,1-Dichloroethene	112
Trichloroethene	105
Surrogate Recovery	
4-Bromochlorobenzene	92

Volatile Organics by GC 8021 LCS for sample(s) 16-17, 20 (WG58793)	
Chlorobenzene	108
1,1-Dichloroethene	103
Trichloroethene	102
Surrogate Recovery	
4-Bromochlorobenzene	102

Volatile Organics by GC 8021 LCS for sample(s) 13, 18 (WG58793)	
Chlorobenzene	108
1,1-Dichloroethene	118
Trichloroethene	108
Surrogate Recovery	
4-Bromochlorobenzene	99

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

Laboratory Job Number: L0005297

Parameter	MS %	MSD %	RPD
Volatile Organics by GC 8021 for sample(s) 01-20 (L0005297-19, WG58793)			
Chlorobenzene	117	118	1
1,1-Dichloroethene	104	103	1
Trichloroethene	111	108	3

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0005297

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Blank Analysis for sample(s) 02-10							
Volatile Organics by GC 8021				1	8021B	11-Jul	JC
Bromodichloromethane	ND	ug/l	1.0				
Bromoform	ND	ug/l	1.0				
Carbon tetrachloride	ND	ug/l	1.0				
Chlorobenzene	ND	ug/l	1.0				
Dibromodichloromethane	ND	ug/l	10.				
Bromomethane/Chloroethane	ND	ug/l	10.				
Chloroform	ND	ug/l	1.0				
Chloromethane/Vinyl chloride	ND	ug/l	10.				
1,2-Dichlorobenzene	ND	ug/l	1.0				
1,3-Dichlorobenzene	ND	ug/l	1.0				
1,4-Dichlorobenzene	ND	ug/l	1.0				
Dichlorodifluoromethane	ND	ug/l	10.				
1,1-Dichloroethane	ND	ug/l	1.0				
1,2-Dichloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	1.0				
cis-1,2-Dichloroethene	ND	ug/l	1.0				
trans-1,2-Dichloroethene	ND	ug/l	1.0				
1,2-Dichloropropane	ND	ug/l	1.0				
cis-1,3-Dichloropropene	ND	ug/l	1.0				
trans-1,3-Dichloropropene	ND	ug/l	1.0				
Methylene chloride	ND	ug/l	10.				
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0				
Tetrachloroethene	ND	ug/l	1.0				
1,1,1-Trichloroethane	ND	ug/l	1.0				
1,1,2-Trichloroethane	ND	ug/l	1.0				
Trichloroethene	ND	ug/l	1.0				
Trichlorofluoromethane	ND	ug/l	1.0				
2-Chloroethyl vinyl ether	ND	ug/l	10.				

Surrogate Recovery

4-Bromochlorobenzene 73.0 %

Blank Analysis for sample(s) 01, 11-12							
Volatile Organics by GC 8021				1	8021B	12-Jul	JC
Bromodichloromethane	ND	ug/l	1.0				
Bromoform	ND	ug/l	1.0				
Carbon tetrachloride	ND	ug/l	1.0				
Chlorobenzene	ND	ug/l	1.0				
Dibromodichloromethane	ND	ug/l	10.				
Bromomethane/Chloroethane	ND	ug/l	10.				
Chloroform	ND	ug/l	1.0				
Chloromethane/Vinyl chloride	ND	ug/l	10.				
1,2-Dichlorobenzene	ND	ug/l	1.0				
1,3-Dichlorobenzene	ND	ug/l	1.0				
1,4-Dichlorobenzene	ND	ug/l	1.0				
Dichlorodifluoromethane	ND	ug/l	10.				

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0005297

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Blank Analysis for sample(s) 01, 11-12							
Volatile Organics by GC 8021 continued				1	8021B	12-Jul	JC
1, 1-Dichloroethane	ND	ug/l	1.0				
1, 2-Dichloroethane	ND	ug/l	1.0				
1, 1-Dichloroethene	ND	ug/l	1.0				
cis-1, 2-Dichloroethene	ND	ug/l	1.0				
trans-1, 2-Dichloroethene	ND	ug/l	1.0				
1, 2-Dichloropropane	ND	ug/l	1.0				
cis-1, 3-Dichloropropene	ND	ug/l	1.0				
trans-1, 3-Dichloropropene	ND	ug/l	1.0				
Methylene chloride	ND	ug/l	10.				
1, 1, 2, 2-Tetrachloroethane	ND	ug/l	1.0				
Tetrachloroethene	ND	ug/l	1.0				
1, 1, 1-Trichloroethane	ND	ug/l	1.0				
1, 1, 2-Trichloroethane	ND	ug/l	1.0				
Trichloroethene	ND	ug/l	1.0				
Trichlorofluoromethane	ND	ug/l	1.0				
2-Chloroethyl vinyl ether	ND	ug/l	10.				

Surrogate Recovery

4-Bromochlorobenzene 75.0 %

Blank Analysis for sample(s) 16-17, 20							
Volatile Organics by GC 8021				1	8021B	12-Jul	JC
Bromodichloromethane	ND	ug/l	1.0				
Bromoform	ND	ug/l	1.0				
Carbon tetrachloride	ND	ug/l	1.0				
Chlorobenzene	ND	ug/l	1.0				
Di bromochloromethane	ND	ug/l	10.				
Bromomethane/Chloroethane	ND	ug/l	10.				
Chloroform	ND	ug/l	1.0				
Chloromethane/Vinyl chloride	ND	ug/l	10.				
1, 2-Dichlorobenzene	ND	ug/l	1.0				
1, 3-Dichlorobenzene	ND	ug/l	1.0				
1, 4-Dichlorobenzene	ND	ug/l	1.0				
Dichlorodifluoromethane	ND	ug/l	10.				
1, 1-Dichloroethane	ND	ug/l	1.0				
1, 2-Dichloroethane	ND	ug/l	1.0				
1, 1-Dichloroethene	ND	ug/l	1.0				
cis-1, 2-Dichloroethene	ND	ug/l	1.0				
trans-1, 2-Dichloroethene	ND	ug/l	1.0				
1, 2-Dichloropropane	ND	ug/l	1.0				
cis-1, 3-Dichloropropene	ND	ug/l	1.0				
trans-1, 3-Dichloropropene	ND	ug/l	1.0				
Methylene chloride	ND	ug/l	10.				
1, 1, 2, 2-Tetrachloroethane	ND	ug/l	1.0				
Tetrachloroethene	ND	ug/l	1.0				
1, 1, 1-Trichloroethane	ND	ug/l	1.0				

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0005297

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
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Blank Analysis for sample(s) 16-17, 20

Volatile Organics by GC 8021 continued						12-Jul	JC
				1	8021B		
1,1,2-Tri chloroethane	ND	ug/l	1.0				
Tri chloroethene	ND	ug/l	1.0				
Tri chlorofluoromethane	ND	ug/l	1.0				
2-Chloroethyl vinyl ether	ND	ug/l	10.				

Surrogate Recovery

4-Bromochlorobenzene 74.0 %

Blank Analysis for sample(s) 13, 18

Volatile Organics by GC 8021						13-Jul	JC
				1	8021B		
Bromochloromethane	ND	ug/l	1.0				
Bromoform	ND	ug/l	1.0				
Carbon tetrachloride	ND	ug/l	1.0				
Chlorobenzene	ND	ug/l	1.0				
Di bromochloromethane	ND	ug/l	10.				
Bromomethane/Chloroethane	ND	ug/l	10.				
Chloroform	ND	ug/l	1.0				
Chloromethane/Vinyl chloride	ND	ug/l	10.				
1,2-Dichlorobenzene	ND	ug/l	1.0				
1,3-Dichlorobenzene	ND	ug/l	1.0				
1,4-Dichlorobenzene	ND	ug/l	1.0				
Dichlorodifluoromethane	ND	ug/l	10.				
1,1-Dichloroethane	ND	ug/l	1.0				
1,2-Dichloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	1.0				
cis-1,2-Dichloroethene	ND	ug/l	1.0				
trans-1,2-Dichloroethene	ND	ug/l	1.0				
1,2-Dichloropropane	ND	ug/l	1.0				
cis-1,3-Dichloropropene	ND	ug/l	1.0				
trans-1,3-Dichloropropene	ND	ug/l	1.0				
Methylene chloride	ND	ug/l	10.				
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0				
Tetrachloroethene	ND	ug/l	1.0				
1,1,1-Tri chloroethane	ND	ug/l	1.0				
1,1,2-Tri chloroethane	ND	ug/l	1.0				
Tri chloroethene	ND	ug/l	1.0				
Tri chlorofluoromethane	ND	ug/l	1.0				
2-Chloroethyl vinyl ether	ND	ug/l	10.				

Surrogate Recovery

4-Bromochlorobenzene 74.0 %

Blank Analysis for sample(s) 14-15, 19

Volatile Organics by GC 8021						13-Jul	JC
				1	8021B		
Bromochloromethane	ND	ug/l	1.0				

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0005297

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Blank Analysis for sample(s) 14-15, 19							
Volatile Organics by GC 8021 continued				1	8021B	13-Jul	JC
Bromoform	ND	ug/l	1.0				
Carbon tetrachloride	ND	ug/l	1.0				
Chlorobenzene	ND	ug/l	1.0				
Dibromochloromethane	ND	ug/l	10.				
Bromomethane/Chloroethane	ND	ug/l	10.				
Chloroform	ND	ug/l	1.0				
Chloromethane/Vinyl chloride	ND	ug/l	10.				
1,2-Dichlorobenzene	ND	ug/l	1.0				
1,3-Dichlorobenzene	ND	ug/l	1.0				
1,4-Dichlorobenzene	ND	ug/l	1.0				
Dichlorodifluoromethane	ND	ug/l	10.				
1,1-Dichloroethane	ND	ug/l	1.0				
1,2-Dichloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	1.0				
cis-1,2-Dichloroethene	ND	ug/l	1.0				
trans-1,2-Dichloroethene	ND	ug/l	1.0				
1,2-Dichloropropane	ND	ug/l	1.0				
cis-1,3-Dichloropropene	ND	ug/l	1.0				
trans-1,3-Dichloropropene	ND	ug/l	1.0				
Methylene chloride	ND	ug/l	10.				
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0				
Tetrachloroethene	ND	ug/l	1.0				
1,1,1-Trichloroethane	ND	ug/l	1.0				
1,1,2-Trichloroethane	ND	ug/l	1.0				
Trichloroethene	ND	ug/l	1.0				
Trichlorofluoromethane	ND	ug/l	1.0				
2-Chloroethyl vinyl ether	ND	ug/l	10.				

Surrogate Recovery

4-Bromochlorobenzene	93.0	%
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ALPHA ANALYTICAL LABORATORIES
ADDENDUM I

REFERENCES

1. Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Update III, 1997.

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.

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 its 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, Inc.

CHAIN OF CUSTODY

ALPHA Job #

Eight Walkup Drive Westborough, MA 01581
 PH: 508.898.9220 FAX: 508.898.9193 www.alphalab.com

No 0598

Sheet ____ of ____

Date Rec'd in Lab: 7/10

Client Name: ERM
 Client Address: 39A Boulston St
Boston MA 02116
 Phone #: 617-267-8377 FAX #:

Project Name: Raytheon
 Project Location: Wayland
 Project #: 143.50
 Project Manager:

Report To: R. Cheneau
 Bill To:
 PO#:

- Standard TAT
- RUSH TAT _____ (* DAYS)
- FAX Results
- State Forms
- Smart Report

Comments (Please note specific method, detection limit or reporting requirements.)
Chlorinateds only please!

ANALYSIS REQUEST

Sample ID	Matrix/Source *	Sampling Date	Sampling Time	Sampler's Initials	Solubles: Field Filtered? (Y/N)	8021B Chlorinated only						
MW - 33S	GW	7/10/00	1350	LA	N	2						
33M			1325	LA		2						
33D			1350	PL		2						
37			1413	PL		2						
37M			1425	PL		2						
43S			1443	PL		2						
43D			1500	LA		2						
45S			1100	PL		2						
45M			1040	LA		2						
45D			1050	PL		2						
46S			1542	PL		2						

Transfers Accepted By:	Date	Time
<i>[Signature]</i>	7/10/00	1400
<i>[Signature]</i>	7/10/00	1730

Transfers Relinquished By:
<i>[Signature]</i>

All samples submitted are subject to Alpha's standard Terms and Conditions.

* See Reverse side for Matrix, Container, and Preservative Codes.

# of Containers:	22
Container Type: *	V
Preservative: *	B

ALPHA Analytical Laboratories, Inc.

Eight Walkup Drive Westborough, MA 01581
 PH: 508.898.9220 FAX: 508.898.9193 www.alphalab.com

CHAIN OF CUSTODY

No 0599

ALPHA Job #: 0005297

Date Rec'd in Lab: 7/10

Date Due: 7/17

Sheet _____ of _____

Client Name: ERM

Project Name: Rotlean

Report To: R. Chenail

Standard TAT

Client Address: 399 Burlington St

Project Location: Weyland

Bill To: _____

RUSH TAT _____
 (* DAYS)

Boston, MA 02116

Project #: 1431.50

FAX Results

Phone #: 617-267-8377 FAX #: _____

Project Manager: _____

PO#: _____

State Forms

Smart Report

Comments (Please note specific method, detection limit or reporting requirements.)

Chlorinated only please!

ANALYSIS REQUEST

80210 Chlorinated only

ALPHA Lab #	Sample ID	Matrix/Source *	Sampling Date	Sampling Time	Sampler's Initials	Solubles: Field Filtered? (Y/N)												
589	MW-46M	GW	7/10/00	1545	LA	N	2											
13	MW-47S			1133	PL		2											
14	MW-47M			1135	LA		2											
15	MW-47D			1230	LA		2											
16	HA-102			1220	PL		2											
17	HA-103			1535	PL		2											
18	HA-104																	
18	Dup 1			0900	PL		2											
19	Dup 2			1000	PL		2											
20	Trip blank	✓	✓	716	air	✓	1											

Date	Time
7/10/00	440
7/10/00	1730

Transfers Accepted By: *[Signature]*

Transfers Relinquished By: *[Signature]*

All samples submitted are subject to Alpha's standard Terms and Conditions.

* See Reverse side for Matrix, Container, and Preservative Codes.

of Containers: 17
 Container Type: ✓
 Preserved by: _____

ALPHA ANALYTICAL LABORATORIES

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

MA: M-MA-086 NH: 200395-B/C CT: PH-0574 ME: MA086 RI: 65 NY: 11148

CERTIFICATE OF ANALYSIS

Client: ERM-New England Laboratory Job Number: L0005356
Address: 399 Boylston Street Invoice Number: 38589
6th Floor
Boston, MA 02116 Date Received: 11-JUL-00
Attn: Joe Fiacco Date Reported: 18-JUL-00
Project Number: 143.50 Delivery Method: Alpha
Site: RAYTHEON

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0005356-01	MW45M 900	WAYLAND, MA
L0005356-02	MW45M 915	WAYLAND, MA
L0005356-03	MW45M 930	WAYLAND, MA
L0005356-04	MW335 1300	WAYLAND, MA
L0005356-05	MW335 1315	WAYLAND, MA
L0005356-06	MW335 1330	WAYLAND, MA
L0005356-07	HA-104	WAYLAND, MA
L0005356-08	MW435 1500	WAYLAND, MA
L0005356-09	MW435 1515	WAYLAND, MA
L0005356-10	MW435 1530	WAYLAND, MA

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately 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.

Authorized by: _____

James R. Roth, PhD - Laboratory Manager

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA: M-MA-086 NH: 200395-B/C CT: PH-0574 ME: MA086 RI: 65

Laboratory Sample Number: L0005356-01	Date Collected: 11-JUL-2000
Sample Matrix: MW45M 900	Date Received : 11-JUL-2000
Sample Matrix: WATER	Date Reported : 18-JUL-00
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 8021				1	8021B	17-Jul	JC
Bromochloromethane	ND	ug/l	2.0				
Bromoform	ND	ug/l	2.0				
Carbon tetrachloride	ND	ug/l	2.0				
Chlorobenzene	ND	ug/l	2.0				
Dibromochloromethane	ND	ug/l	20.				
Bromomethane/Chloroethane	ND	ug/l	20.				
Chloroform	ND	ug/l	2.0				
Chloromethane/Vinyl chloride	ND	ug/l	20.				
1,2-Dichlorobenzene	ND	ug/l	2.0				
1,3-Dichlorobenzene	ND	ug/l	2.0				
1,4-Dichlorobenzene	ND	ug/l	2.0				
Dichlorodifluoromethane	ND	ug/l	20.				
1,1-Dichloroethane	ND	ug/l	2.0				
1,2-Dichloroethane	ND	ug/l	2.0				
1,1-Dichloroethene	3.6	ug/l	2.0				
cis-1,2-Dichloroethene	ND	ug/l	2.0				
trans-1,2-Dichloroethene	ND	ug/l	2.0				
1,2-Dichloropropane	ND	ug/l	2.0				
cis-1,3-Dichloropropene	ND	ug/l	2.0				
trans-1,3-Dichloropropene	ND	ug/l	2.0				
Methylene chloride	ND	ug/l	20.				
1,1,2,2-Tetrachloroethane	16.	ug/l	2.0				
Tetrachloroethene	ND	ug/l	2.0				
1,1,1-Trichloroethane	28.	ug/l	2.0				
1,1,2-Trichloroethane	ND	ug/l	2.0				
Trichloroethene	120	ug/l	2.0				
Trichlorofluoromethane	ND	ug/l	2.0				
2-Chloroethyl vinyl ether	ND	ug/l	20.				
Surrogate Recovery							
4-Bromochlorobenzene	98.0	%					

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA: M-MA-086 NH: 200395-B/C CT: PH-0574 ME: MA086 RI: 65

Laboratory Sample Number: L0005356-02	Date Collected: 11-JUL-2000
Sample Matrix: MW45M 915	Date Received: 11-JUL-2000
Sample Matrix: WATER	Date Reported: 18-JUL-00
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 8021				1	8021B	14-Jul	JC
Bromodichloromethane	ND	ug/l	2.0				
Bromoform	ND	ug/l	2.0				
Carbon tetrachloride	ND	ug/l	2.0				
Chlorobenzene	ND	ug/l	2.0				
Dibromochloromethane	ND	ug/l	20.				
Bromomethane/Chloroethane	ND	ug/l	20.				
Chloroform	ND	ug/l	2.0				
Chloromethane/Vinyl chloride	ND	ug/l	20.				
1,2-Dichlorobenzene	ND	ug/l	2.0				
1,3-Dichlorobenzene	ND	ug/l	2.0				
1,4-Dichlorobenzene	ND	ug/l	2.0				
Dichlorodifluoromethane	ND	ug/l	20.				
1,1-Dichloroethane	ND	ug/l	2.0				
1,2-Dichloroethane	ND	ug/l	2.0				
1,1-Dichloroethene	3.8	ug/l	2.0				
cis-1,2-Dichloroethene	ND	ug/l	2.0				
trans-1,2-Dichloroethene	ND	ug/l	2.0				
1,2-Dichloropropane	ND	ug/l	2.0				
cis-1,3-Dichloropropene	ND	ug/l	2.0				
trans-1,3-Dichloropropene	ND	ug/l	2.0				
Methylene chloride	ND	ug/l	20.				
1,1,2,2-Tetrachloroethane	ND	ug/l	2.0				
Tetrachloroethene	ND	ug/l	2.0				
1,1,1-Trichloroethane	26.	ug/l	2.0				
1,1,2-Trichloroethane	ND	ug/l	2.0				
Trichloroethene	120	ug/l	2.0				
Trichlorofluoromethane	ND	ug/l	2.0				
2-Chloroethyl vinyl ether	ND	ug/l	20.				
Surrogate Recovery							
4-Bromochlorobenzene	108.	%					

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA: M-MA-086 NH: 200395-B/C CT: PH-0574 ME: MA086 RI: 65

Laboratory Sample Number: L0005356-03	Date Collected: 11-JUL-2000
Sample Matrix: MW45M 930	Date Received : 11-JUL-2000
Sample Matrix: WATER	Date Reported : 18-JUL-00
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 8021				1	8021B	14-Jul	JC
Bromodichloromethane	ND	ug/l	2.0				
Bromoform	ND	ug/l	2.0				
Carbon tetrachloride	ND	ug/l	2.0				
Chlorobenzene	ND	ug/l	2.0				
Dibromodichloromethane	ND	ug/l	20.				
Bromomethane/Chloroethane	ND	ug/l	20.				
Chloroform	ND	ug/l	2.0				
Chloromethane/Vinyl chloride	ND	ug/l	20.				
1,2-Dichlorobenzene	ND	ug/l	2.0				
1,3-Dichlorobenzene	ND	ug/l	2.0				
1,4-Dichlorobenzene	ND	ug/l	2.0				
Dichlorodifluoromethane	ND	ug/l	20.				
1,1-Dichloroethane	ND	ug/l	2.0				
1,2-Dichloroethane	ND	ug/l	2.0				
1,1-Dichloroethene	4.0	ug/l	2.0				
cis-1,2-Dichloroethene	ND	ug/l	2.0				
trans-1,2-Dichloroethene	ND	ug/l	2.0				
1,2-Dichloropropane	ND	ug/l	2.0				
cis-1,3-Dichloropropene	ND	ug/l	2.0				
trans-1,3-Dichloropropene	ND	ug/l	2.0				
Methylene chloride	ND	ug/l	20.				
1,1,2,2-Tetrachloroethane	ND	ug/l	2.0				
Tetrachloroethene	ND	ug/l	2.0				
1,1,1-Trichloroethane	27.	ug/l	2.0				
1,1,2-Trichloroethane	ND	ug/l	2.0				
Trichloroethene	120	ug/l	2.0				
Trichlorofluoromethane	ND	ug/l	2.0				
2-Chloroethyl vinyl ether	ND	ug/l	20.				
Surrogate Recovery							
4-Bromochlorobenzene	83.0	%					

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA: M-MA-086 NH: 200395-B/C CT: PH-0574 ME: MA086 RI: 65

Laboratory Sample Number: L0005356-04	Date Collected: 11-JUL-2000
Sample Matrix: MW335 1300	Date Received : 11-JUL-2000
Sample Matrix: WATER	Date Reported : 18-JUL-00
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 8021				1	8021B	17-Jul	JC
Bromodichloromethane	ND	ug/l	2.0				
Bromoform	ND	ug/l	2.0				
Carbon tetrachloride	ND	ug/l	2.0				
Chlorobenzene	ND	ug/l	2.0				
Dibromochloromethane	ND	ug/l	20.				
Bromomethane/Chloroethane	ND	ug/l	20.				
Chloroform	ND	ug/l	2.0				
Chloromethane/Vinyl chloride	ND	ug/l	20.				
1,2-Dichlorobenzene	ND	ug/l	2.0				
1,3-Dichlorobenzene	ND	ug/l	2.0				
1,4-Dichlorobenzene	ND	ug/l	2.0				
Dichlorodifluoromethane	ND	ug/l	20.				
1,1-Dichloroethane	ND	ug/l	2.0				
1,2-Dichloroethane	ND	ug/l	2.0				
1,1-Dichloroethene	ND	ug/l	2.0				
cis-1,2-Dichloroethene	ND	ug/l	2.0				
trans-1,2-Dichloroethene	ND	ug/l	2.0				
1,2-Dichloropropane	ND	ug/l	2.0				
cis-1,3-Dichloropropene	ND	ug/l	2.0				
trans-1,3-Dichloropropene	ND	ug/l	2.0				
Methylene chloride	ND	ug/l	20.				
1,1,2,2-Tetrachloroethane	ND	ug/l	2.0				
Tetrachloroethene	ND	ug/l	2.0				
1,1,1-Trichloroethane	55.	ug/l	2.0				
1,1,2-Trichloroethane	ND	ug/l	2.0				
Trichloroethene	180	ug/l	2.0				
Trichlorofluoromethane	ND	ug/l	2.0				
2-Chloroethyl vinyl ether	ND	ug/l	20.				
Surrogate Recovery							
4-Bromochlorobenzene	71.0	%					

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA: M-MA-086 NH: 200395-B/C CT: PH-0574 ME: MA086 RI: 65

Laboratory Sample Number: L0005356-05	Date Collected: 11-JUL-2000
	Date Received : 11-JUL-2000
Sample Matrix: MW335 1315 WATER	Date Reported : 18-JUL-00
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 8021				1	8021B	14-Jul	JC
Bromodichloromethane	ND	ug/l	2.0				
Bromoform	ND	ug/l	2.0				
Carbon tetrachloride	ND	ug/l	2.0				
Chlorobenzene	ND	ug/l	2.0				
Dibromochloromethane	ND	ug/l	20.				
Bromomethane/Chloroethane	ND	ug/l	20.				
Chloroform	ND	ug/l	2.0				
Chloromethane/Vinyl chloride	ND	ug/l	20.				
1,2-Dichlorobenzene	ND	ug/l	2.0				
1,3-Dichlorobenzene	ND	ug/l	2.0				
1,4-Dichlorobenzene	ND	ug/l	2.0				
Dichlorodifluoromethane	ND	ug/l	20.				
1,1-Dichloroethane	ND	ug/l	2.0				
1,2-Dichloroethane	ND	ug/l	2.0				
1,1-Dichloroethene	ND	ug/l	2.0				
cis-1,2-Dichloroethene	ND	ug/l	2.0				
trans-1,2-Dichloroethene	ND	ug/l	2.0				
1,2-Dichloropropane	ND	ug/l	2.0				
cis-1,3-Dichloropropene	ND	ug/l	2.0				
trans-1,3-Dichloropropene	ND	ug/l	2.0				
Methylene chloride	ND	ug/l	20.				
1,1,2,2-Tetrachloroethane	ND	ug/l	2.0				
Tetrachloroethene	ND	ug/l	2.0				
1,1,1-Trichloroethane	64.	ug/l	2.0				
1,1,2-Trichloroethane	ND	ug/l	2.0				
Trichloroethene	220	ug/l	2.0				
Trichlorofluoromethane	ND	ug/l	2.0				
2-Chloroethyl vinyl ether	ND	ug/l	20.				
Surrogate Recovery							
4-Bromochlorobenzene	85.0	%					

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA: M-MA-086 NH: 200395-B/C CT: PH-0574 ME: MA086 RI: 65

Laboratory Sample Number: L0005356-06	Date Collected: 11-JUL-2000
	Date Received : 11-JUL-2000
Sample Matrix: MW335 1330 WATER	Date Reported : 18-JUL-00
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 8021				1	8021B	14-Jul	JC
Bromodichloromethane	ND	ug/l	2.0				
Bromoform	ND	ug/l	2.0				
Carbon tetrachloride	ND	ug/l	2.0				
Chlorobenzene	ND	ug/l	2.0				
Dibromochloromethane	ND	ug/l	20.				
Bromomethane/Chloroethane	ND	ug/l	20.				
Chloroform	ND	ug/l	2.0				
Chloromethane/Vinyl chloride	ND	ug/l	20.				
1,2-Dichlorobenzene	ND	ug/l	2.0				
1,3-Dichlorobenzene	ND	ug/l	2.0				
1,4-Dichlorobenzene	ND	ug/l	2.0				
Dichlorodifluoromethane	ND	ug/l	20.				
1,1-Dichloroethane	ND	ug/l	2.0				
1,2-Dichloroethane	ND	ug/l	2.0				
1,1-Dichloroethene	ND	ug/l	2.0				
cis-1,2-Dichloroethene	ND	ug/l	2.0				
trans-1,2-Dichloroethene	ND	ug/l	2.0				
1,2-Dichloropropane	ND	ug/l	2.0				
cis-1,3-Dichloropropene	ND	ug/l	2.0				
trans-1,3-Dichloropropene	ND	ug/l	2.0				
Methylene chloride	ND	ug/l	20.				
1,1,2,2-Tetrachloroethane	ND	ug/l	2.0				
Tetrachloroethene	ND	ug/l	2.0				
1,1,1-Trichloroethane	51.	ug/l	2.0				
1,1,2-Trichloroethane	ND	ug/l	2.0				
Trichloroethene	190	ug/l	2.0				
Trichlorofluoromethane	ND	ug/l	2.0				
2-Chloroethyl vinyl ether	ND	ug/l	20.				
Surrogate Recovery							
4-Bromochlorobenzene	109.	%					

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA: M-MA-086 NH: 200395-B/C CT: PH-0574 ME: MA086 RI: 65

Laboratory Sample Number: L0005356-07	Date Collected: 11-JUL-2000
Sample Matrix: HA-104	Date Received: 11-JUL-2000
Sample Matrix: WATER	Date Reported: 18-JUL-00
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 8021				1	8021B	14-Jul	JC
Bromodichloromethane	ND	ug/l	1.0				
Bromoform	ND	ug/l	1.0				
Carbon tetrachloride	ND	ug/l	1.0				
Chlorobenzene	ND	ug/l	1.0				
Dibromochloromethane	ND	ug/l	10.				
Bromomethane/Chloroethane	ND	ug/l	10.				
Chloroform	ND	ug/l	1.0				
Chloromethane/Vinyl chloride	ND	ug/l	10.				
1,2-Dichlorobenzene	ND	ug/l	1.0				
1,3-Dichlorobenzene	ND	ug/l	1.0				
1,4-Dichlorobenzene	ND	ug/l	1.0				
Dichlorodifluoromethane	ND	ug/l	10.				
1,1-Dichloroethane	ND	ug/l	1.0				
1,2-Dichloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	1.0				
cis-1,2-Dichloroethene	ND	ug/l	1.0				
trans-1,2-Dichloroethene	ND	ug/l	1.0				
1,2-Dichloropropane	ND	ug/l	1.0				
cis-1,3-Dichloropropene	ND	ug/l	1.0				
trans-1,3-Dichloropropene	ND	ug/l	1.0				
Methylene chloride	ND	ug/l	10.				
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0				
Tetrachloroethene	24.	ug/l	1.0				
1,1,1-Trichloroethane	ND	ug/l	1.0				
1,1,2-Trichloroethane	ND	ug/l	1.0				
Trichloroethene	18.	ug/l	1.0				
Trichlorofluoromethane	ND	ug/l	1.0				
2-Chloroethyl vinyl ether	ND	ug/l	10.				

Surrogate Recovery

4-Bromochlorobenzene	96.0	%
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Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
 CERTIFICATE OF ANALYSIS

MA: M-MA-086 NH: 200395-B/C CT: PH-0574 ME: MA086 RI: 65

Laboratory Sample Number: L0005356-08 Date Collected: 11-JUL-2000
 MW435 1500 Date Received: 11-JUL-2000
 Sample Matrix: WATER Date Reported: 18-JUL-00
 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 8021				1	8021B	14-Jul	JC
Bromodichloromethane	ND	ug/l	5.0				
Bromoform	ND	ug/l	5.0				
Carbon tetrachloride	ND	ug/l	5.0				
Chlorobenzene	ND	ug/l	5.0				
Dibromochloromethane	ND	ug/l	50.				
Bromomethane/Chloroethane	ND	ug/l	50.				
Chloroform	ND	ug/l	5.0				
Chloromethane/Vinyl chloride	ND	ug/l	50.				
1,2-Dichlorobenzene	ND	ug/l	5.0				
1,3-Dichlorobenzene	ND	ug/l	5.0				
1,4-Dichlorobenzene	ND	ug/l	5.0				
Dichlorodifluoromethane	ND	ug/l	50.				
1,1-Dichloroethane	ND	ug/l	5.0				
1,2-Dichloroethane	ND	ug/l	5.0				
1,1-Dichloroethene	ND	ug/l	5.0				
cis-1,2-Dichloroethene	ND	ug/l	5.0				
trans-1,2-Dichloroethene	ND	ug/l	5.0				
1,2-Dichloropropane	ND	ug/l	5.0				
cis-1,3-Dichloropropene	ND	ug/l	5.0				
trans-1,3-Dichloropropene	ND	ug/l	5.0				
Methylene chloride	ND	ug/l	50.				
1,1,2,2-Tetrachloroethane	ND	ug/l	5.0				
Tetrachloroethene	7.4	ug/l	5.0				
1,1,1-Trichloroethane	ND	ug/l	5.0				
1,1,2-Trichloroethane	ND	ug/l	5.0				
Trichloroethene	600	ug/l	5.0				
Trichlorofluoromethane	7.4	ug/l	5.0				
2-Chloroethyl vinyl ether	ND	ug/l	50.				
Surrogate Recovery							
4-Bromochlorobenzene	97.0	%					

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA: M-MA-086 NH: 200395-B/C CT: PH-0574 ME: MA086 RI: 65

Laboratory Sample Number: L0005356-09	Date Collected: 11-JUL-2000
	Date Received : 11-JUL-2000
Sample Matrix: MW435 1515 WATER	Date Reported : 18-JUL-00
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 8021				1	8021B	14-Jul	JC
Bromochloromethane	ND	ug/l	5.0				
Bromoform	ND	ug/l	5.0				
Carbon tetrachloride	ND	ug/l	5.0				
Chlorobenzene	ND	ug/l	5.0				
Dibromochloromethane	ND	ug/l	50.				
Bromomethane/Chloroethane	ND	ug/l	50.				
Chloroform	ND	ug/l	5.0				
Chloromethane/Vinyl chloride	ND	ug/l	50.				
1,2-Dichlorobenzene	ND	ug/l	5.0				
1,3-Dichlorobenzene	ND	ug/l	5.0				
1,4-Dichlorobenzene	ND	ug/l	5.0				
Dichlorodifluoromethane	ND	ug/l	50.				
1,1-Dichloroethane	ND	ug/l	5.0				
1,2-Dichloroethane	ND	ug/l	5.0				
1,1-Dichloroethene	ND	ug/l	5.0				
cis-1,2-Dichloroethene	ND	ug/l	5.0				
trans-1,2-Dichloroethene	ND	ug/l	5.0				
1,2-Dichloropropane	ND	ug/l	5.0				
cis-1,3-Dichloropropene	ND	ug/l	5.0				
trans-1,3-Dichloropropene	ND	ug/l	5.0				
Methylene chloride	ND	ug/l	50.				
1,1,2,2-Tetrachloroethane	ND	ug/l	5.0				
Tetrachloroethene	ND	ug/l	5.0				
1,1,1-Trichloroethane	ND	ug/l	5.0				
1,1,2-Trichloroethane	ND	ug/l	5.0				
Trichloroethene	370	ug/l	5.0				
Trichlorofluoromethane	5.1	ug/l	5.0				
2-Chloroethyl vinyl ether	ND	ug/l	50.				
Surrogate Recovery							
4-Bromochlorobenzene	94.0	%					

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA: M-MA-086 NH: 200395-B/C CT: PH-0574 ME: MA086 RI: 65

Laboratory Sample Number: L0005356-10	Date Collected: 11-JUL-2000
Sample Matrix: MW435 1530	Date Received : 11-JUL-2000
Sample Matrix: WATER	Date Reported : 18-JUL-00
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 8021				1	8021B	17-Jul	JC
Bromodichloromethane	ND	ug/l	5.0				
Bromoform	ND	ug/l	5.0				
Carbon tetrachloride	ND	ug/l	5.0				
Chlorobenzene	ND	ug/l	5.0				
Dibromodichloromethane	ND	ug/l	50.				
Bromomethane/Chloroethane	ND	ug/l	50.				
Chloroform	ND	ug/l	5.0				
Chloromethane/Vinyl chloride	ND	ug/l	50.				
1,2-Dichlorobenzene	ND	ug/l	5.0				
1,3-Dichlorobenzene	ND	ug/l	5.0				
1,4-Dichlorobenzene	ND	ug/l	5.0				
Dichlorodifluoromethane	ND	ug/l	50.				
1,1-Dichloroethane	ND	ug/l	5.0				
1,2-Dichloroethane	ND	ug/l	5.0				
1,1-Dichloroethene	ND	ug/l	5.0				
cis-1,2-Dichloroethene	ND	ug/l	5.0				
trans-1,2-Dichloroethene	ND	ug/l	5.0				
1,2-Dichloropropane	ND	ug/l	5.0				
cis-1,3-Dichloropropene	ND	ug/l	5.0				
trans-1,3-Dichloropropene	ND	ug/l	5.0				
Methylene chloride	ND	ug/l	50.				
1,1,2,2-Tetrachloroethane	ND	ug/l	5.0				
Tetrachloroethene	ND	ug/l	5.0				
1,1,1-Trichloroethane	ND	ug/l	5.0				
1,1,2-Trichloroethane	ND	ug/l	5.0				
Trichloroethene	330	ug/l	5.0				
Trichlorofluoromethane	ND	ug/l	5.0				
2-Chloroethyl vinyl ether	ND	ug/l	50.				
Surrogate Recovery							
4-Bromodichlorobenzene	71.0	%					

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

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0005356

Parameter	% Recovery
Volatile Organics by GC 8021 LCS for sample(s) 02-03, 05-06 (WG58646)	
Chlorobenzene	111
1,1-Dichloroethene	113
Trichloroethene	104
Surrogate Recovery	
4-Bromochlorobenzene	104
Volatile Organics by GC 8021 LCS for sample(s) 01, 04, 10 (WG58646)	
Chlorobenzene	113
1,1-Dichloroethene	106
Trichloroethene	105
Surrogate Recovery	
4-Bromochlorobenzene	102

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

Laboratory Job Number: L0005356

Parameter	MS %	MSD %	RPD
Volatile Organics by GC 8021 for sample(s) 01-10 (L0005189-03, WG58646)			
Chlorobenzene	106	108	2
1,1-Dichloroethene	81	91	11
Trichloroethene	101	101	0

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0005356

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Blank Analysis for sample(s) 07-09							
Volatile Organics by GC 8021				1	8021B	14-Jul	JC
Bromodichloromethane	ND	ug/l	1.0				
Bromoform	ND	ug/l	1.0				
Carbon tetrachloride	ND	ug/l	1.0				
Chlorobenzene	ND	ug/l	1.0				
Dibromochloromethane	ND	ug/l	10.				
Bromomethane/Chloroethane	ND	ug/l	10.				
Chloroform	ND	ug/l	1.0				
Chloromethane/Vinyl chloride	ND	ug/l	10.				
1,2-Dichlorobenzene	ND	ug/l	1.0				
1,3-Dichlorobenzene	ND	ug/l	1.0				
1,4-Dichlorobenzene	ND	ug/l	1.0				
Dichlorodifluoromethane	ND	ug/l	10.				
1,1-Dichloroethane	ND	ug/l	1.0				
1,2-Dichloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	1.0				
cis-1,2-Dichloroethene	ND	ug/l	1.0				
trans-1,2-Dichloroethene	ND	ug/l	1.0				
1,2-Dichloropropane	ND	ug/l	1.0				
cis-1,3-Dichloropropene	ND	ug/l	1.0				
trans-1,3-Dichloropropene	ND	ug/l	1.0				
Methylene chloride	ND	ug/l	10.				
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0				
Tetrachloroethene	ND	ug/l	1.0				
1,1,1-Trichloroethane	ND	ug/l	1.0				
1,1,2-Trichloroethane	ND	ug/l	1.0				
Trichloroethene	ND	ug/l	1.0				
Trichlorofluoromethane	ND	ug/l	1.0				
2-Chloroethyl vinyl ether	ND	ug/l	10.				

Surrogate Recovery

4-Bromochlorobenzene 94.0 %

Blank Analysis for sample(s) 02-03, 05-06							
Volatile Organics by GC 8021				1	8021B	14-Jul	JC
Bromodichloromethane	ND	ug/l	1.0				
Bromoform	ND	ug/l	1.0				
Carbon tetrachloride	ND	ug/l	1.0				
Chlorobenzene	ND	ug/l	1.0				
Dibromochloromethane	ND	ug/l	10.				
Bromomethane/Chloroethane	ND	ug/l	10.				
Chloroform	ND	ug/l	1.0				
Chloromethane/Vinyl chloride	ND	ug/l	10.				
1,2-Dichlorobenzene	ND	ug/l	1.0				
1,3-Dichlorobenzene	ND	ug/l	1.0				
1,4-Dichlorobenzene	ND	ug/l	1.0				
Dichlorodifluoromethane	ND	ug/l	10.				

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0005356

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Blank Analysis for sample(s) 02-03, 05-06							
Volatile Organics by GC 8021 continued				1	8021B	14-Jul	JC
1,1-Dichloroethane	ND	ug/l	1.0				
1,2-Dichloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	1.0				
cis-1,2-Dichloroethene	ND	ug/l	1.0				
trans-1,2-Dichloroethene	ND	ug/l	1.0				
1,2-Dichloropropane	ND	ug/l	1.0				
cis-1,3-Dichloropropene	ND	ug/l	1.0				
trans-1,3-Dichloropropene	ND	ug/l	1.0				
Methylene chloride	ND	ug/l	10.				
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0				
Tetrachloroethene	ND	ug/l	1.0				
1,1,1-Trichloroethane	ND	ug/l	1.0				
1,1,2-Trichloroethane	ND	ug/l	1.0				
Trichloroethene	ND	ug/l	1.0				
Trichlorofluoromethane	ND	ug/l	1.0				
2-Chloroethyl vinyl ether	ND	ug/l	10.				

Surrogate Recovery

4-Bromochlorobenzene 102. %

Blank Analysis for sample(s) 01, 04, 10							
Volatile Organics by GC 8021				1	8021B	17-Jul	JC
Bromodichloromethane	ND	ug/l	1.0				
Bromoform	ND	ug/l	1.0				
Carbon tetrachloride	ND	ug/l	1.0				
Chlorobenzene	ND	ug/l	1.0				
Di bromochloromethane	ND	ug/l	10.				
Bromomethane/Chloroethane	ND	ug/l	10.				
Chloroform	ND	ug/l	1.0				
Chloromethane/Vinyl chloride	ND	ug/l	10.				
1,2-Dichlorobenzene	ND	ug/l	1.0				
1,3-Dichlorobenzene	ND	ug/l	1.0				
1,4-Dichlorobenzene	ND	ug/l	1.0				
Dichlorodifluoromethane	ND	ug/l	10.				
1,1-Dichloroethane	ND	ug/l	1.0				
1,2-Dichloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	1.0				
cis-1,2-Dichloroethene	ND	ug/l	1.0				
trans-1,2-Dichloroethene	ND	ug/l	1.0				
1,2-Dichloropropane	ND	ug/l	1.0				
cis-1,3-Dichloropropene	ND	ug/l	1.0				
trans-1,3-Dichloropropene	ND	ug/l	1.0				
Methylene chloride	ND	ug/l	10.				
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0				
Tetrachloroethene	ND	ug/l	1.0				
1,1,1-Trichloroethane	ND	ug/l	1.0				

ALPHA ANALYTICAL LABORATORIES
 QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0005356

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Blank Analysis for sample(s) 01,04,10							
Volatile Organics by GC 8021 continued				1	8021B	17-Jul	JC
1,1,2-Trichloroethane	ND	ug/l	1.0				
Trichloroethene	ND	ug/l	1.0				
Trichlorofluoromethane	ND	ug/l	1.0				
2-Chloroethyl vinyl ether	ND	ug/l	10.				
Surrogate Recovery							
4-Bromochlorobenzene	97.0	%					

ALPHA ANALYTICAL LABORATORIES
ADDENDUM I

REFERENCES

1. Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Update III, 1997.

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.

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 its 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, Inc.

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

CHAIN OF CUSTODY RECORD and ANALYSIS REQUEST RECORD

No. 100525
Sheet 1 of 1

Company Name: ERM - New England	Project Number: 143.50 P.O. Number:	Project Name/Location: Raytheon - Wayland	Date Received in Lab: 7/11	Date Due: 7/10/00
Company Address: 399 Boylston St. FL6 Boston MA 02116	Phone Number: 617 267 8379 FAX No.: 617 267 6447	Project Manager: Joe Fiacco	Alpha Job Number: (Lab use only) 60005356	

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)						Solubles - F.F.	Sampling		MATRIX/SOURCE CODES				
					Unpres.	Ice	Nitric	Sulfuric	HCl	Other		Date	Time	MW=Monitoring Well	RO=Runoff	O=Outfall	W=Well	FL=Landfill
															Analysis Requested			
5356/1	MW45M 900		2V	SW					X		7/11/00	900	2021 B chlorinated only					
-2	MW45M 915											915						
-3	MW45M 930											930						
-4	MW33S 1300											1300						
-5	MW33S 1315											1315						
-6	MW33S 1330											1330						
-7	HA-104											1400						
-8	MW43S 1500											1500						
-9	MW43S 1515											1515						
-10	MW43S 1530											1530						

Sampler's Signature: **Matthew Daly** ERM Affiliation: **ERM** Date: **7/11/00** Time: **1620**

ADDITIONAL COMMENTS:
Fax Results to Joe Fiacco

NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME
1	Matthew Daly	[Signature]	7/11/00	420
2	[Signature]	[Signature]	7/11	1712
3				
4				

ALPHA ANALYTICAL LABORATORIES

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

MA: M-MA-086 NH: 200395-B/C CT: PH-0574 ME: MA086 RI: 65 NY: 11148

CERTIFICATE OF ANALYSIS

Client: ERM-New England Laboratory Job Number: L0005794
Address: 399 Boylston Street Invoice Number: 38939
6th Floor
Boston, MA 02116 Date Received: 20-JUL-00
Attn: Joe Fiacco Date Reported: 26-JUL-00
Project Number: 143.50 Delivery Method: Alpha
Site: RAYTHEON

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0005794-01	MW-33B	WAYLAND, MA
L0005794-02	MW-45B	WAYLAND, MA
L0005794-03	TRIP BLANK	ALPHA

I attest under the pains and penalties of perjury that, based upon my inquiry of those individuals immediately 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.

Authorized by: _____

Scott McLean - Laboratory Director

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA: M-MA-086 NH: 200395-B/C CT: PH-0574 ME: MA086 RI: 65

Laboratory Sample Number: L0005794-01	Date Collected: 19-JUL-2000
	Date Received : 20-JUL-2000
Sample Matrix: MW-33B WATER	Date Reported : 26-JUL-00
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 8021				1	8021B	25-Jul	JC
Bromodichloromethane	ND	ug/l	1.0				
Bromoform	ND	ug/l	1.0				
Carbon tetrachloride	ND	ug/l	1.0				
Chlorobenzene	ND	ug/l	1.0				
Dibromochloromethane	ND	ug/l	10.				
Bromomethane/Chloroethane	ND	ug/l	10.				
Chloroform	ND	ug/l	1.0				
Chloromethane/Vinyl chloride	ND	ug/l	10.				
1,2-Dichlorobenzene	ND	ug/l	1.0				
1,3-Dichlorobenzene	ND	ug/l	1.0				
1,4-Dichlorobenzene	ND	ug/l	1.0				
Dichlorodifluoromethane	ND	ug/l	10.				
1,1-Dichloroethane	ND	ug/l	1.0				
1,2-Dichloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	1.0				
cis-1,2-Dichloroethene	ND	ug/l	1.0				
trans-1,2-Dichloroethene	ND	ug/l	1.0				
1,2-Dichloropropane	ND	ug/l	1.0				
cis-1,3-Dichloropropene	ND	ug/l	1.0				
trans-1,3-Dichloropropene	ND	ug/l	1.0				
Methylene chloride	ND	ug/l	10.				
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0				
Tetrachloroethene	ND	ug/l	1.0				
1,1,1-Trichloroethane	ND	ug/l	1.0				
1,1,2-Trichloroethane	ND	ug/l	1.0				
Trichloroethene	ND	ug/l	1.0				
Trichlorofluoromethane	ND	ug/l	1.0				
2-Chloroethyl vinyl ether	ND	ug/l	10.				
Surrogate Recovery							
4-Bromochlorobenzene	91.0	%					

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA: M-MA-086 NH: 200395-B/C CT: PH-0574 ME: MA086 RI: 65

Laboratory Sample Number: L0005794-02	Date Collected: 19-JUL-2000
	Date Received : 20-JUL-2000
Sample Matrix: MW-45B WATER	Date Reported : 26-JUL-00
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 8021				1	8021B	25-Jul	JC
Bromodichloromethane	ND	ug/l	1.0				
Bromoform	ND	ug/l	1.0				
Carbon tetrachloride	ND	ug/l	1.0				
Chlorobenzene	ND	ug/l	1.0				
Dibromodichloromethane	ND	ug/l	10.				
Bromomethane/Chloroethane	ND	ug/l	10.				
Chloroform	ND	ug/l	1.0				
Chloromethane/Vinyl chloride	ND	ug/l	10.				
1,2-Dichlorobenzene	ND	ug/l	1.0				
1,3-Dichlorobenzene	ND	ug/l	1.0				
1,4-Dichlorobenzene	ND	ug/l	1.0				
Dichlorodifluoromethane	ND	ug/l	10.				
1,1-Dichloroethane	ND	ug/l	1.0				
1,2-Dichloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	1.0				
cis-1,2-Dichloroethene	ND	ug/l	1.0				
trans-1,2-Dichloroethene	ND	ug/l	1.0				
1,2-Dichloropropane	ND	ug/l	1.0				
cis-1,3-Dichloropropene	ND	ug/l	1.0				
trans-1,3-Dichloropropene	ND	ug/l	1.0				
Methylene chloride	ND	ug/l	10.				
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0				
Tetrachloroethene	ND	ug/l	1.0				
1,1,1-Trichloroethane	ND	ug/l	1.0				
1,1,2-Trichloroethane	ND	ug/l	1.0				
Trichloroethene	7.5	ug/l	1.0				
Trichlorofluoromethane	ND	ug/l	1.0				
2-Chloroethyl vinyl ether	ND	ug/l	10.				
Surrogate Recovery							
4-Bromochlorobenzene	91.0	%					

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA: M-MA-086 NH: 200395-B/C CT: PH-0574 ME: MA086 RI: 65

Laboratory Sample Number: L0005794-03	Date Collected: 12-JUL-2000
Sample Matrix: TRIP BLANK	Date Received : 20-JUL-2000
Sample Matrix: WATER	Date Reported : 26-JUL-00
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 8021				1	8021B	25-Jul	JC
Bromodichloromethane	ND	ug/l	1.0				
Bromoform	ND	ug/l	1.0				
Carbon tetrachloride	ND	ug/l	1.0				
Chlorobenzene	ND	ug/l	1.0				
Dibromodichloromethane	ND	ug/l	10.				
Bromomethane/Chloroethane	ND	ug/l	10.				
Chloroform	ND	ug/l	1.0				
Chloromethane/Vinyl chloride	ND	ug/l	10.				
1,2-Dichlorobenzene	ND	ug/l	1.0				
1,3-Dichlorobenzene	ND	ug/l	1.0				
1,4-Dichlorobenzene	ND	ug/l	1.0				
Dichlorodifluoromethane	ND	ug/l	10.				
1,1-Dichloroethane	ND	ug/l	1.0				
1,2-Dichloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	1.0				
cis-1,2-Dichloroethene	ND	ug/l	1.0				
trans-1,2-Dichloroethene	ND	ug/l	1.0				
1,2-Dichloropropane	ND	ug/l	1.0				
cis-1,3-Dichloropropene	ND	ug/l	1.0				
trans-1,3-Dichloropropene	ND	ug/l	1.0				
Methylene chloride	ND	ug/l	10.				
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0				
Tetrachloroethene	ND	ug/l	1.0				
1,1,1-Trichloroethane	ND	ug/l	1.0				
1,1,2-Trichloroethane	ND	ug/l	1.0				
Trichloroethene	ND	ug/l	1.0				
Trichlorofluoromethane	ND	ug/l	1.0				
2-Chloroethyl vinyl ether	ND	ug/l	10.				
Surrogate Recovery							
4-Bromochlorobenzene	94.0	%					

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

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0005794

Parameter	% Recovery
Volatile Organics by GC 8021 LCS for sample(s) 01-03 (WG59755)	
Chlorobenzene	88
1,1-Dichloroethene	76
Trichloroethene	85
Surrogate Recovery	
4-Bromochlorobenzene	83

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

Laboratory Job Number: L0005794

Parameter	MS %	MSD %	RPD
Volatile Organics by GC 8021 for sample(s) 01-03 (L0005827-01, WG59755)			
Chlorobenzene	117	114	3
1,1-Dichloroethene	114	105	8
Trichloroethene	104	101	3

ALPHA ANALYTICAL LABORATORIES
 QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0005794

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Blank Analysis for sample(s) 01-03							
Volatile Organics by GC 8021				1	8021B	25-Jul	JC
Bromodichloromethane	ND	ug/l	1.0				
Bromoform	ND	ug/l	1.0				
Carbon tetrachloride	ND	ug/l	1.0				
Chlorobenzene	ND	ug/l	1.0				
Dibromochloromethane	ND	ug/l	10.				
Bromomethane/Chloroethane	ND	ug/l	10.				
Chloroform	ND	ug/l	1.0				
Chloromethane/Vinyl chloride	ND	ug/l	10.				
1,2-Dichlorobenzene	ND	ug/l	1.0				
1,3-Dichlorobenzene	ND	ug/l	1.0				
1,4-Dichlorobenzene	ND	ug/l	1.0				
Dichlorodifluoromethane	ND	ug/l	10.				
1,1-Dichloroethane	ND	ug/l	1.0				
1,2-Dichloroethane	ND	ug/l	1.0				
1,1-Dichloroethene	ND	ug/l	1.0				
cis-1,2-Dichloroethene	ND	ug/l	1.0				
trans-1,2-Dichloroethene	ND	ug/l	1.0				
1,2-Dichloropropane	ND	ug/l	1.0				
cis-1,3-Dichloropropene	ND	ug/l	1.0				
trans-1,3-Dichloropropene	ND	ug/l	1.0				
Methylene chloride	ND	ug/l	10.				
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0				
Tetrachloroethene	ND	ug/l	1.0				
1,1,1-Trichloroethane	ND	ug/l	1.0				
1,1,2-Trichloroethane	ND	ug/l	1.0				
Trichloroethene	ND	ug/l	1.0				
Trichlorofluoromethane	ND	ug/l	1.0				
2-Chloroethyl vinyl ether	ND	ug/l	10.				
Surrogate Recovery							
4-Bromochlorobenzene	88.0	%					

ALPHA ANALYTICAL LABORATORIES
ADDENDUM I

REFERENCES

1. Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Update III, 1997.

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.

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 its 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, Inc.

Eight Walkup Drive Westborough, MA 01581
 PH: 508.898.9220 FAX: 508.898.9193 www.alphalab.com

CHAIN OF CUSTODY

No 0834

Sheet 1 of 1

ALPHA Job #:

0005794

Date Rec'd in Lab:

7/20

Date Due:

7/27

Client Name: ERM
 Client Address: 399 Baylston St
Boston, MA 02116
 Phone #: 617-267-8377 FAX #:

Project Name: Rathoon
 Project Location: Wayland
 Project #: 143.50
 Project Manager:

Report To: Joe Fiore
 Bill To:
 PO#:

- Standard TAT
 RUSH TAT
 (* DAYS)
 FAX Results
 State Forms
 Smart Report

Comments (Please note specific method, detection limit or reporting requirements.)

Chlorinateds only please!

ANALYSIS REQUEST

ALPHA Lab #	Sample ID	Matrix/Source *	Sampling Date	Sampling Time	Sampler's Initials	Solubles: Field Filtered? (Y/N)	Chlorinateds only													
5794-1	MW-33B	GW	7/19	1850	PL	N	2													
-2	MW-45B	GW	7/19	1810	PL	N	2													
-3	Trip Blank	GW	7/19	1300			1													

All samples submitted are subject to Alpha's standard Terms and Conditions.
 * See Reverse side for Matrix, Container, and Preservative Codes.

of Containers: 5
 Container Type: * V

Transfers Accepted By:	Date	Time
<i>[Signature]</i>	7/20/08	11:55
<i>[Signature]</i>	7/20	
<i>[Signature]</i>		
<i>[Signature]</i>		
<i>[Signature]</i>		

User: ARI

Quality Control Acceptance Criteria

Volatile Organics by Method 8260B

surrogate spike % recovery	AQ Limits		Soil Limits			
	LCL	UCL	LCL	UCL		
1,2-Dichloroethane-d ₄	75%	125%	75%	125%		
4-Bromofluorobenzene	75%	125%	75%	125%		
Toluene-d ₈	75%	125%	75%	125%		
Dibromofluoromethane	75%	125%	75%	125%		
matrix spike / matrix spike duplicate (MS/MSD) & lab control sample (LCS)	percent recovery				duplicate and/or MSD	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
1,1-Dichloroethene	61%	145%	59%	172%	all target compounds	
Trichloroethene	71%	120%	62%	137%	20%	30%
Chlorobenzene	75%	130%	60%	133%		
Benzene	76%	127%	66%	142%		
Toluene	76%	125%	59%	139%		

Volatile Organics by Method 8021B

surrogate spike % recovery	AQ Limits		Soil Limits			
	LCL	UCL	LCL	UCL		
4-Bromochlorobenzene	70%	110%	70%	120%		
4-Bromofluorobenzene	70%	110%	70%	120%		
matrix spike / matrix spike duplicate (MS/MSD) & lab control sample (LCS)	percent recovery				duplicate and/or MSD	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
1,1-Dichloroethene	70%	130%	70%	130%	all target compounds	
Trichloroethene	70%	130%	70%	130%	20%	30%
Chlorobenzene	70%	130%	70%	130%		
Benzene	70%	130%	70%	130%		
Toluene	70%	130%	70%	130%		
Ethylbenzene	70%	130%	70%	130%		

Semi-Volatile Organics by Method 8270C (includes PAHs)

surrogate spike % recovery	AQ Limits		Soil Limits			
	LCL	UCL	LCL	UCL		
Nitrobenzene-d ₅	23%	120%	23%	120%		
Phenol-d ₆	10%	120%	10%	120%		
2-Fluorophenol	21%	120%	25%	120%		
2-Fluorobiphenyl	43%	120%	30%	120%		
p-Terphenyl-d ₁₄	33%	120%	18%	120%		
2,4,6-Tribromophenol	10%	120%	19%	120%		
matrix spike / matrix spike duplicate (MS/MSD) & lab control sample (LCS)	percent recovery				duplicate and/or MSD	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
1,2,4-Trichlorobenzene	39%	98%	38%	107%	all target compounds	
Acenaphthene	46%	118%	31%	137%	40%	50%
2,4-Dinitrotoluene	24%	96%	28%	89%		
Pyrene	26%	127%	35%	142%		
N-Nitroso-di-n-propylamine	41%	116%	41%	126%		
1,4-Dichlorobenzene	36%	97%	28%	104%		
Pentachlorophenol	9%	103%	17%	109%		
Phenol	12%	110%	26%	90%		
2-Chlorophenol	27%	123%	25%	102%		
4-Chloro-3-methylphenol	23%	97%	26%	103%		
4-Nitrophenol	10%	80%	11%	114%		

PCB/Pesticides by Method 8082/8081

surrogate spike % recovery	AQ Limits		Soil Limits			
	LCL	UCL	LCL	UCL		
2,4,5,6-Tetrachloro-m-xylene	40%	120%	40%	120%		
Decachlorobiphenyl	40%	120%	40%	120%		
matrix spike / matrix spike duplicate (MS/MSD) & lab control sample (LCS)	percent recovery				duplicate and/or MSD	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
Lindane	56%	123%	46%	127%	all target compounds	
Heptachlor	40%	131%	35%	130%	30%	50%
Aldrin	40%	120%	34%	132%		
Dieldrin	52%	126%	31%	134%		
Endrin	56%	121%	42%	139%		
4,4'-DDT	38%	127%	23%	134%		
Aroclor 1242/1016	40%	140%	40%	140%		
Aroclor 1260	40%	140%	40%	140%		

Volatile Petroleum Hydrocarbons (VPH) by MA DEP 98-1

surrogate spike % recovery	AQ Limits		Soil Limits			
	LCL	UCL	LCL	UCL		
2,5-Dibromotoluene	70%	130%	70%	130%		
laboratory control sample (LCS)	percent recovery				duplicate	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
all compounds	70%	130%	70%	130%	50%	50%

Extractable Petroleum Hydrocarbons (EPH) by MA DEP 98-1

surrogate spike % recovery	AQ Limits		Soil Limits			
	LCL	UCL	LCL	UCL		
Chloro-octadecane	40%	140%	40%	140%		
ortho-Terphenyl	40%	140%	40%	140%		
2-Fluorobiphenyl (fractionation)	40%	140%	40%	140%		
2-Bromonaphthalene (fractionation)	40%	140%	40%	140%		
laboratory control sample (LCS)	percent recovery				duplicate	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
all compounds	40%	140%	40%	140%	50%	50%

TPH (GC-FID) by Method 8100M

surrogate spike % recovery	AQ Limits		Soil Limits		duplicate	
	LCL	UCL	LCL	UCL	AQ Limits	Soil Limits
ortho-Terphenyl	40%	140%	40%	140%	RPD	RPD
					40%	40%

TPH by Method 418.1

matrix spike (MS) & laboratory control sample (LCS)	percent recovery				duplicate	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
TPH	60%	140%	60%	140%	40%	40%

Quality Control Acceptance Criteria

Trace Metals by Method 6010B/7000 series

matrix spike (MS) & laboratory control sample (LCS)	percent recovery				duplicate	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
target analyte	75%	125%	70%	140%	20%	35%

Mercury by Method 7470A/7471A

matrix spike (MS) & laboratory control sample (LCS)	percent recovery				duplicate	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
mercury	70%	130%	60%	140%	35%	45%

Total Cyanide by Method 9010B

matrix spike (MS) & laboratory control sample (LCS)	percent recovery				duplicate	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
cyanide	80%	120%	65%	135%	30%	40%

Total Phenol by Method 9065

matrix spike (MS) & laboratory control sample (LCS)	percent recovery				duplicate	
	AQ Limits		Soil Limits		AQ Limits	Soil Limits
	LCL	UCL	LCL	UCL	RPD	RPD
phenol	70%	130%	65%	135%	20%	30%