

APPENDICES

Appendix A

Logs and Construction Diagrams for Land-Tech Monitor Wells MW1-MW3

Soil Sampling Log

Connecticut Test Borings, LLC

P.O. Box 69 - Seymour, CT 06483

GEOTECHNICAL & ENVIRONMENTAL DRILLING
(203) 888-3857 (203) 888-5777
FAX: (203) 888-0655



SHEET	1 OF 1
PROJECT No.	C00186
LOCATION	7 Main Street E. Haddam, CT
OFFSET	
GROUND ELEVATION	
HOLE No.	MW-1
CASING	HSA 3-1/4"
SAMPLER	FWC 4"
CORE BARREL	

DATE STARTED	7/30/00
DATE FINISHED	8/1/00
WEIGHT OF HAMMER	140 Lbs.
HAMMER FALL	30"
GROUND WATER OBSERVATION	
DATE	7/30/00
TIME	0 Hours
DEPTH	32-3"
SAMPLER Dia. (Type/O.D./I.D.)	SS 2" / 1-3/8"
TYPE OF RIG	CME 75 - Truck

ESPECIALLY COMPILED FOR
Land-Tech Consultants, Inc.
205 Playhouse Corner
Southbury, CT 06488

C A L S O I W T H G	D E P T H S	S A M P L E D E P T H (F E E T)	S A M P L E T Y P E	B L O W S P E R 6 I N C H E S O N S A M P L E R				D E N S I T Y O R C O N S I S T M O I S T U R E	P R O F I L E C H A N G E D E P T H E L E V.	F I E L D I D E N T I F I C A T I O N O F S O I L R E M A R K S	S A M P L E			B O R E / W E L L (N O T T O S C A L E)
				0-6	6-12	12-18	18-24				N O.	P E N	R E C	
									4"	TOPSOIL				
										BR. SILTY SAND & GRAEVL, OCC. COBBLES				
	-5	5'-47'	C					3.0	4'6"	BEDROCK				
								3.0						
								3.0						
								5.0						
	-10							10.0		HOLLOW STEM AUGER REFUSAL AT '4'-6"				
								6.0		DROVE 4" FWC '4'6"-5'				
								8.0		ROLLER BITTED '3-7/8" 5' TO 0				
								4.0						
								4.0						
	-15							5.0						
								4.0						
								4.0						
	-20							5.0						
								6.0						
								4.0						
	-25							6.0						
								6.0						
								9.0						
								6.0						
	-30							8.0						
								8.0						
								9.0						
								8.0						
	-35							6.0						
								7.0						
								6.0						
	-40							4.0		SET 2" PVC WELL PIPE 47' BELOW GRADE				
								5.0		SCREEN -42' TO -28'				
								4.0		RISER -47' TO -42'				
								3.0		RISER -28' TO -0'				
								3.0		SAND -47' TO -25'				
								3.0		BENT. -25' TO -22'				
	-45							3.0		BACKFILL -22' TO -1'				
								2.0		SAND MIX - 1' TO -0				
								3.0						
								4.0	47'					
	-50													

Proportions used: trace = 0-10%, little = 10-20%, some = 20-35%, and = 35-50%

DRILLER: **S.B.**
HELPER: **M.J.**
SOILS ENGINEER:
DRILLING INSPECTOR:

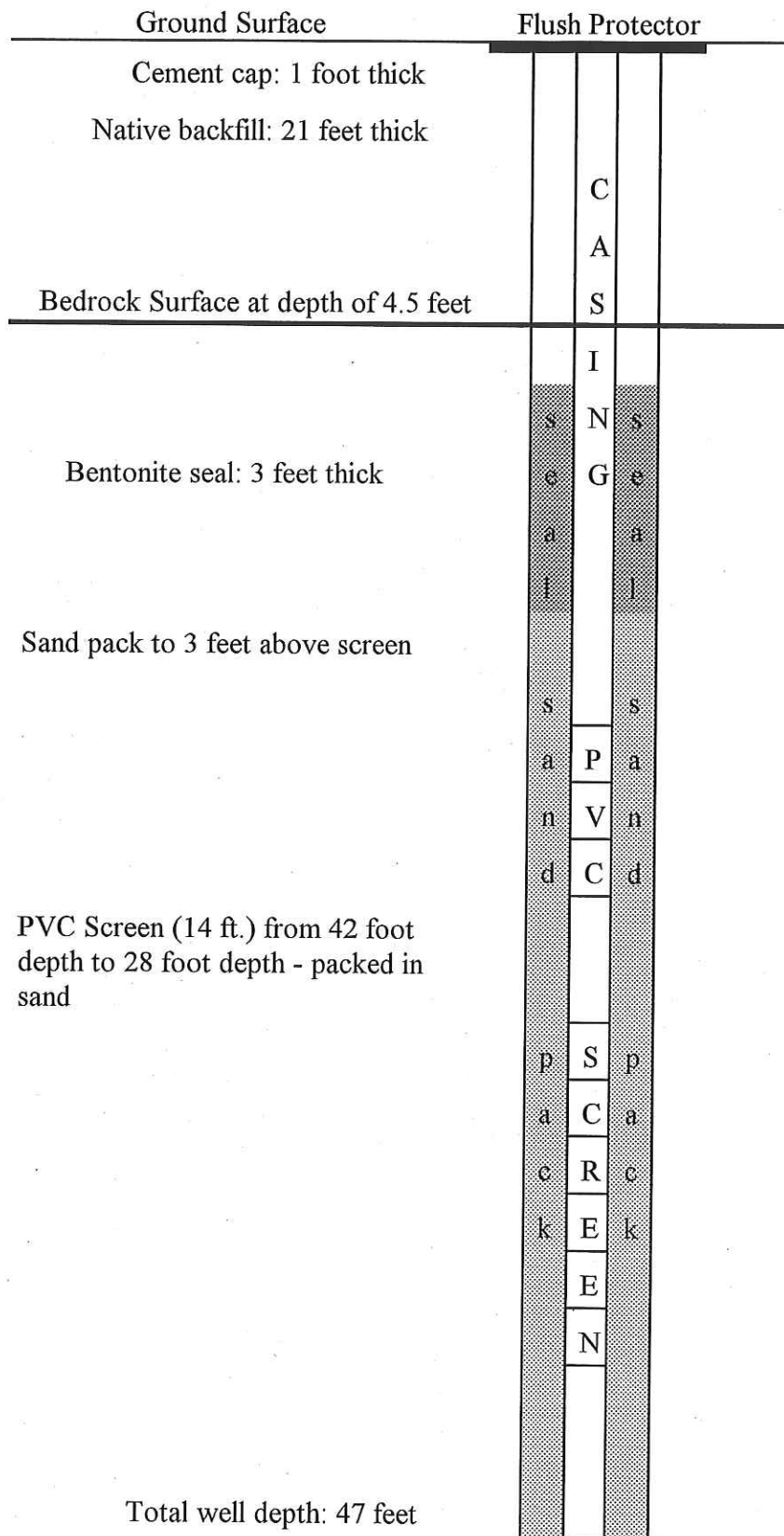
SAMPLE TYPE
C = CORED
W = WASHED
SS = SPLIT SPOON
UP = UNDISTURBED PISTON
TP = TEST PIT
UT = UNDISTURBED THINWALL

COHESIONLESS SOILS
0-4 VERY LOOSE
4-10 LOOSE
10-30 MEDIUM
30-50 DENSE
50+ VERY DENSE

COHESIVE SOILS
0-2 VERY SOFT
2-4 SOFT
4-8 MEDIUM
8-15 STIFF
15-30 VERY STIFF
30+ HARD

NOT RESPONSIBLE FOR SAMPLE STORAGE AFTER 30 DAYS

FILE: **C00186**



CONSTRUCTION DIAGRAM FOR MONITOR MW1

Soil Sampling Log

DATE STARTED	7/28/00
DATE FINISHED	7/28/00
WEIGHT OF HAMMER	140 Lbs.
HAMMER FALL	30"
GROUND WATER OBSERVATION	
DATE	7/28/00
TIME	0 Hours
DEPTH	20'-6"
SAMPLER Dia. (Type/O.D./I.D.)	SS 2" / 1-3/8"
TYPE OF RIG	CME 75 - Truck

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SHEET	1 OF 1
PROJECT No.	C00186
LOCATION	7 Main Street E. Haddam, CT
OFFSET	
GROUND ELEVATION	
HOLE No.	MW-2
CASING	HSA 3-1/4"
SAMPLER	FWC 4"
CORE BARREL	

ESPECIALLY COMPILED FOR
Land-Tech Consultants, Inc.
 205 Playhouse Corner
 Southbury, CT 06488

C A S I N G S	D E P T H	SAMPLE DEPTH (FEET)	SAMP TYPE	BLOWS PER 6 INCHES ON SAMPLER				DENSITY OR CONSIST MOISTURE	PROFILE CHANGE DEPTH ELEV.	FIELD IDENTIFICATION OF SOILS REMARKS	SAMPLE			BORE / WELL (NOT TO SCALE)
				0-6	6-12	12-18	18-24				NO.	PEN	REC	
		5'-7'	SS	2	2	1	2	V.LOOSE MOIST	2" 6"	ASPHALT F-C GRAVEL BR. VF-F SAND, SOME SILT, TR. F-M GRAVEL	1	24	18	
		9'-29'	C					6.0 5.0 14.0 5.0 6.0 12.0 9.0 11.0 5.0 6.0 5.0 7.0 6.0 10.0 8.0 5.0 6.0 4.0 7.0	8" 29'	BEDROCK HOLLOW STEM AUGER REFUSAL AT '9' ROLLER BITTED 3-7/8" 9' TO 29'				
		-30'							29'	BOTTOM OF BORING				
		-40'								SET 2" PVC WELL PIPE 29' BELOW GRADE				
		-45'								SCREEN -29' TO -14' RISER -14' TO -0' SAND -29' TO -13' BENTONITE -13' TO -8' BACKFILL -8' TO -1' SAND MIX -1' TO -0'				
		-50'												

Proportions used: trace = 0-10%, little = 10-20%, some = 20-35%, and = 35-50%

DRILLER: **S.B.**
 HELPER: **M.J.**
 SOILS ENGINEER:
 DRILLING INSPECTOR:

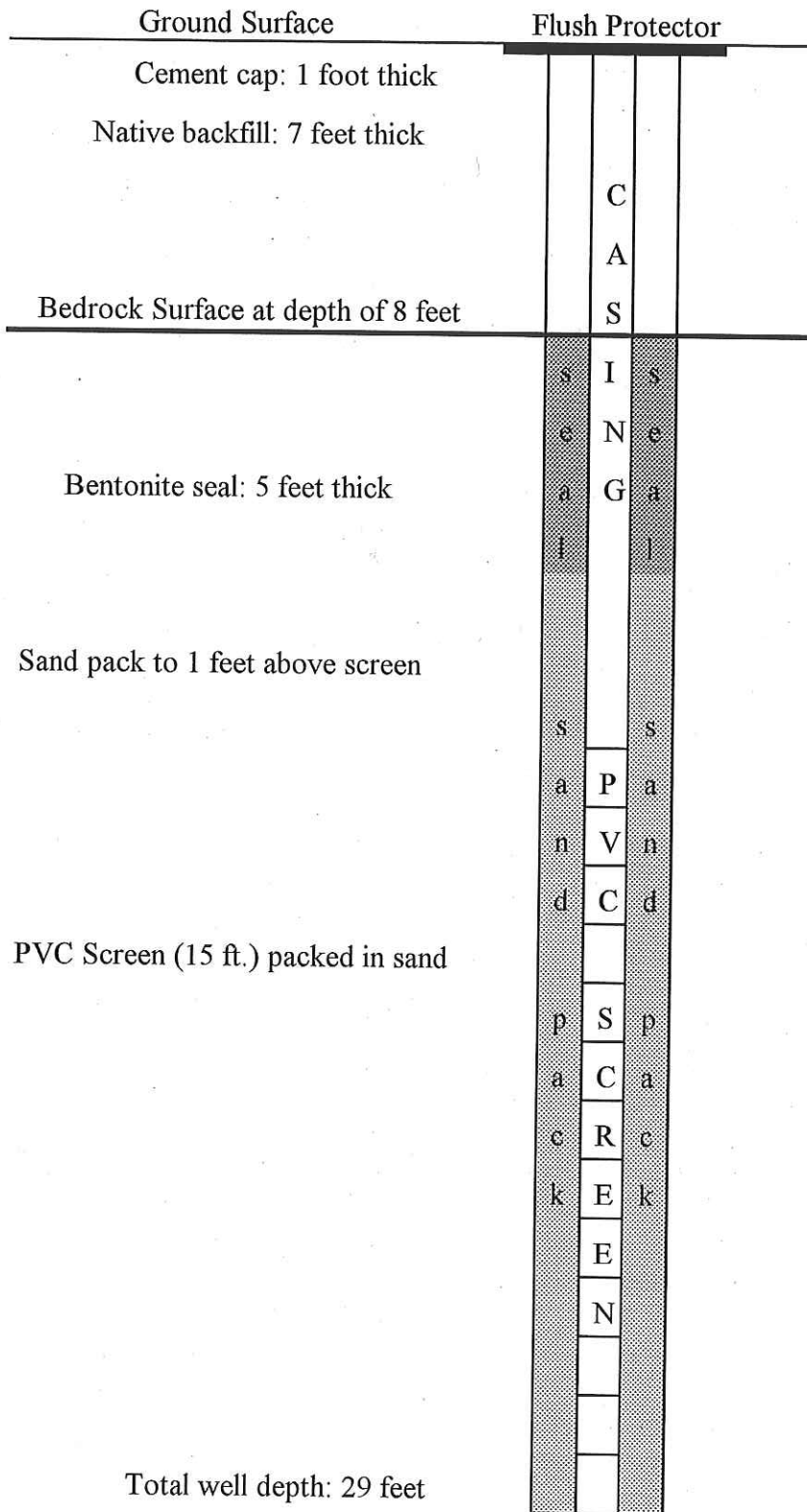
SAMPLE TYPE
 C = CORED
 W = WASHED
 SS = SPLIT SPOON
 UP = UNDISTURBED PISTON
 TP = TEST PIT
 UT = UNDISTURBED THINWALL

COHESIONLESS SOILS
 0-4 VERY LOOSE
 4-10 LOOSE
 10-30 MEDIUM
 30-50 DENSE
 50+ VERY DENSE

COHESIVE SOILS
 0-2 VERY SOFT
 2-4 SOFT
 4-8 MEDIUM
 8-15 STIFF
 15-30 VERY STIFF
 30+ HARD

NOT RESPONSIBLE FOR SAMPLE STORAGE AFTER 30 DAYS

FILE: **C00186**



CONSTRUCTION DIAGRAM FOR MONITOR MW2

Soil Sampling Log

Connecticut Test Borings, LLC

P.O. Box 69 - Seymour, CT 06483

GEOTECHNICAL & ENVIRONMENTAL DRILLING
(203) 888-3957 (203) 888-5777
FAX: (203) 888-0655



DATE STARTED	8/1/00
DATE FINISHED	8/1/00
WEIGHT OF HAMMER	140 Lbs.
HAMMER FALL	30"
GROUND WATER OBSERVATION	
DATE	8/1/00
TIME	0 Hours
DEPTH	8'-0"
SAMPLER Dia. (Type/O.D./I.D.)	SS 2" / 1-3/8"
TYPE OF RIG	CME 75 - Truck

ESPECIALLY COMPILED FOR
Land-Tech Consultants, Inc.
205 Playhouse Corner
Southbury, CT 06488

SHEET	1 OF 1
PROJECT No.	C00186
LOCATION	7 Main Street E. Haddam, CT
OFFSET	
GROUND ELEVATION	
HOLE No.	MW-3
CASING	HSA 3-1/4"
SAMPLER	FWC 4"
CORE BARREL	

C B L S O I L I N G S	D E P T H	S A M P L E D E P T H (FEET)	S A M P L E T Y P E	B L O W S P E R 6 I N C H E S O N S A M P L E R				D E N S I T Y O R C O N S I S T M O I S T U R E	P R O F I L E C H A N G E D E P T H E L E V.	F I E L D I D E N T I F I C A T I O N O F S O I L S R E M A R K S	S A M P L E			B O R E / W E L L (NOT TO SCALE)
				0-6	6-12	12-18	18-24				N O.	P E N	R E C	
									2'	BROWN SILTY SAND & GRAEVL (FILL) TAN VF-F SAND, L. SILT				
	-5	5'-7"	SS	4	3	5	5	LOOSE DAMP			1	24	17	
	-10	10'-12"	SS	3	6	8	7	MEDIUM WET		SAME W/ SOME SILT	2	24	20	
	-15													
	-20								20'	BOTTOM OF BORING				
	-25													
	-30													
	-35													
	-40									SET 2" PVC WELL PIPE 20' BELOW GRADE				
	-45									SCREEN -20' TO -5' RISER -5' TO -1' SAND -20' TO -4' BENTONITE -4' TO -3' BACKFILL -3' TO -1' SAND MIX -1' TO -0'				
	-50													

Proportions used: trace = 0-10%, little = 10-20%, some = 20-35%, and = 35-50%

DRILLER: **S.B.**
HELPER: **M.J.**
SOILS ENGINEER:
DRILLING INSPECTOR:

SAMPLE TYPE
C = CORED
W = WASHED
SS = SPLIT SPOON
UP = UNDISTURBED PISTON
TP = TEST PIT
UT = UNDISTURBED THINWALL

COHESIONLESS SOILS	COHESIVE SOILS
0-4 VERY LOOSE	0-2 VERY SOFT
4-10 LOOSE	2-4 SOFT
10-30 MEDIUM	4-8 MEDIUM
30-50 DENSE	8-15 STIFF
50+ VERY DENSE	15-30 VERY STIFF
	30+ HARD

NOT RESPONSIBLE FOR SAMPLE STORAGE AFTER 30 DAYS

FILE: **C00186**

Ground Surface

Flush Protector

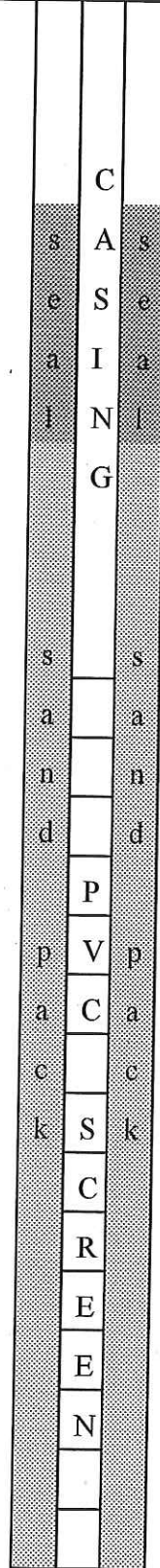
Native backfill & cement cap:
3 feet thick

Bentonite Seal: 1 foot thick

Sand pack 1 foot above screen

PVC Screen (15 ft.) packed in sand

Total well depth: 20.0 feet



CONSTRUCTION DIAGRAM FOR MONITOR WELL MW3

Appendix B

Land-Tech Soil and Ground Water Test Data

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: Land-Tech Consultants Laboratory Job Number: L0006331
Address: 205 Playhouse Corner Invoice Number: 39781
Southbury, CT 06488 Date Received: 02-AUG-00
Attn: M. Bartos Date Reported: 15-AUG-00
Project Number: E00199-04 Delivery Method: Alpha
Site: 7 MAIN ST.

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0006331-01	MW-2-6	E. HADDAM, CT
L0006331-02	MW-3-6	E. HADDAM, CT

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
NARRATIVE REPORT

Laboratory Job Number: L0006331

Alpha Job L0006331:

Metals

It should be noted that the matrix spike percent recoveries for the analysis of Arsenic and Selenium associated with Alpha Sample L0006331-01 are outside the in-house acceptance criteria for the method. Post analytical spikes were performed with acceptable recoveries of 98% and 102%.

It should also be noted that the matrix spike percent recoveries for the analysis of Arsenic and Selenium associated with Alpha Sample L0006331-02 are outside the in-house acceptance criteria for the method. Post analytical spikes were performed with acceptable recoveries of 102% and 108%.

ALPHA ANALYTICAL LABORATORIES
 CERTIFICATE OF ANALYSIS

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

Laboratory Sample Number: L0006331-01 Date Collected: 28-JUL-2000
 MW-2-6 Date Received : 02-AUG-2000
 Sample Matrix: SOIL Date Reported : 15-AUG-00
 Condition of Sample: Satisfactory Field Prep: None

Number & Type of Containers: 1-Amber,1-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES		ID
						PREP	ANALYSIS	
Solids, Total	81.	%	0.10	30	2540G		05-Aug	LC
Hydrocarbons, Total (IR)	200	mg/kg	49.	4	418.1	14-Aug	14-Aug	TH
Total Metals				1	3051			
Arsenic, Total	3.5	mg/kg	0.49	1	6010B	11-Aug	13-Aug	MG
Barium, Total	28.	mg/kg	0.49	1	6010B	11-Aug	13-Aug	MG
Cadmium, Total	ND	mg/kg	0.49	1	6010B	11-Aug	13-Aug	MG
Chromium, Total	18.	mg/kg	0.49	1	6010B	11-Aug	13-Aug	MG
Lead, Total	31.	mg/kg	2.4	1	6010B	11-Aug	13-Aug	MG
Mercury, Total	ND	mg/kg	0.31	1	7471A	11-Aug	12-Aug	DM
Selenium, Total	ND	mg/kg	0.98	1	6010B	11-Aug	13-Aug	MG
Silver, Total	ND	mg/kg	0.49	1	6010B	11-Aug	13-Aug	MG
TCLP Metals								
TCLP Extraction				1	1311	10-Aug		
Arsenic, TCLP	ND	mg/l	1.0	1	6010B	11-Aug	14-Aug	MM
Barium, TCLP	ND	mg/l	0.50	1	6010B	11-Aug	14-Aug	MM
Cadmium, TCLP	ND	mg/l	0.10	1	6010B	11-Aug	14-Aug	MM
Chromium, TCLP	ND	mg/l	0.20	1	6010B	11-Aug	14-Aug	MM
Lead, TCLP	ND	mg/l	0.50	1	6010B	11-Aug	14-Aug	MM
Mercury, TCLP	ND	mg/l	0.005	1	7470A	13-Aug	14-Aug	DM
Selenium, TCLP	ND	mg/l	1.0	1	6010B	11-Aug	14-Aug	MM
Silver, TCLP	ND	mg/l	0.10	1	6010B	11-Aug	14-Aug	MM
Volatile Organics by GC/MS 8260				1	8260B		09-Aug	MD
Methylene chloride	ND	ug/kg	31.					
1,1-Dichloroethane	ND	ug/kg	9.2					
Chloroform	ND	ug/kg	9.2					
Carbon tetrachloride	ND	ug/kg	6.2					
1,2-Dichloropropane	ND	ug/kg	22.					
Dibromochloromethane	ND	ug/kg	6.2					
1,1,2-Trichloroethane	ND	ug/kg	9.2					
Tetrachloroethene	ND	ug/kg	6.2					
Chlorobenzene	ND	ug/kg	22.					

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

ALPHA ANALYTICAL LABORATORIES
 CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0006331-01
 MW-2-6

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Volatile Organics by GC/MS 8260 continued				1	8260B	09-Aug	MD
Trichlorofluoromethane	ND	ug/kg	31.				
1,2-Dichloroethane	ND	ug/kg	6.2				
1,1,1-Trichloroethane	ND	ug/kg	6.2				
Bromodichloromethane	ND	ug/kg	6.2				
trans-1,3-Dichloropropene	ND	ug/kg	6.2				
cis-1,3-Dichloropropene	ND	ug/kg	6.2				
1,1-Dichloropropene	ND	ug/kg	150				
Bromoform	ND	ug/kg	6.2				
1,1,2,2-Tetrachloroethane	ND	ug/kg	6.2				
Benzene	ND	ug/kg	6.2				
Toluene	ND	ug/kg	9.2				
Ethylbenzene	ND	ug/kg	6.2				
Chloromethane	ND	ug/kg	62.				
Bromomethane	ND	ug/kg	12.				
Vinyl chloride	ND	ug/kg	12.				
Chloroethane	ND	ug/kg	12.				
1,1-Dichloroethene	ND	ug/kg	9.2				
trans-1,2-Dichloroethene	ND	ug/kg	9.2				
Trichloroethene	ND	ug/kg	6.2				
1,2-Dichlorobenzene	ND	ug/kg	31.				
1,3-Dichlorobenzene	ND	ug/kg	31.				
1,4-Dichlorobenzene	ND	ug/kg	31.				
Methyl tert butyl ether	ND	ug/kg	62.				
p/m-Xylene	ND	ug/kg	6.2				
o-Xylene	ND	ug/kg	6.2				
cis-1,2-Dichloroethene	ND	ug/kg	6.2				
Dibromomethane	ND	ug/kg	62.				
1,4-Dichlorobutane	ND	ug/kg	62.				
Iodomethane	ND	ug/kg	62.				
1,2,3-Trichloropropane	ND	ug/kg	62.				
Styrene	ND	ug/kg	6.2				
Dichlorodifluoromethane	ND	ug/kg	62.				
Acetone	ND	ug/kg	62.				
Carbon disulfide	ND	ug/kg	62.				
2-Butanone	ND	ug/kg	62.				
Vinyl acetate	ND	ug/kg	62.				
4-Methyl-2-pentanone	ND	ug/kg	62.				
2-Hexanone	ND	ug/kg	62.				
Ethyl methacrylate	ND	ug/kg	62.				
Acrolein	ND	ug/kg	150				
Acrylonitrile	ND	ug/kg	62.				
Bromochloromethane	ND	ug/kg	31.				
Tetrahydrofuran	ND	ug/kg	120				
2,2-Dichloropropane	ND	ug/kg	31.				
1,2-Dibromoethane	ND	ug/kg	31.				
1,3-Dichloropropane	ND	ug/kg	31.				
1,1,1,2-Tetrachloroethane	ND	ug/kg	31.				
Bromobenzene	ND	ug/kg	31.				
n-Butylbenzene	ND	ug/kg	31.				

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0006331-01
MW-2-6

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Volatile Organics by GC/MS 8260 continued				1	8260B	09-Aug	MD
sec-Butylbenzene	ND	ug/kg	31.				
tert-Butylbenzene	ND	ug/kg	31.				
o-Chlorotoluene	ND	ug/kg	31.				
p-Chlorotoluene	ND	ug/kg	31.				
1,2-Dibromo-3-chloropropane	ND	ug/kg	31.				
Hexachlorobutadiene	ND	ug/kg	31.				
Isopropylbenzene	ND	ug/kg	31.				
p-Isopropyltoluene	ND	ug/kg	31.				
Naphthalene	ND	ug/kg	31.				
n-Propylbenzene	ND	ug/kg	31.				
1,2,3-Trichlorobenzene	ND	ug/kg	31.				
1,2,4-Trichlorobenzene	ND	ug/kg	31.				
1,3,5-Trimethylbenzene	ND	ug/kg	31.				
1,2,4-Trimethylbenzene	ND	ug/kg	31.				
trans-1,4-Dichloro-2-butene	ND	ug/kg	31.				
Ethyl ether	ND	ug/kg	150				
Surrogate Recovery							
1,2-Dichloroethane-d4	92.0	%					
Toluene-d8	101.	%					
1-Bromofluorobenzene	94.0	%					
Dibromofluoromethane	93.0	%					

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: L0006331-02 Date Collected: 01-AUG-2000
 MW-3-6 Date Received : 02-AUG-2000
 Sample Matrix: SOIL Date Reported : 15-AUG-00
 Condition of Sample: Satisfactory Field Prep: None

Number & Type of Containers: 1-Amber,1-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES		ID
						PREP	ANALYSIS	
Solids, Total	85.	%	0.10	30	2540G		14-Aug	EO
Hydrocarbons, Total (IR)	54.	mg/kg	47.	4	418.1		14-Aug 14-Aug	TH
Total Metals				1	3051			
Arsenic, Total	5.6	mg/kg	0.47	1	6010B		11-Aug 13-Aug	MG
Barium, Total	33.	mg/kg	0.47	1	6010B		11-Aug 13-Aug	MG
Cadmium, Total	ND	mg/kg	0.47	1	6010B		11-Aug 13-Aug	MG
Chromium, Total	28.	mg/kg	0.47	1	6010B		11-Aug 13-Aug	MG
Lead, Total	8.5	mg/kg	2.3	1	6010B		11-Aug 13-Aug	MG
Mercury, Total	ND	mg/kg	0.29	1	7471A		11-Aug 12-Aug	DM
Selenium, Total	ND	mg/kg	0.94	1	6010B		11-Aug 13-Aug	MG
Silver, Total	ND	mg/kg	0.47	1	6010B		11-Aug 13-Aug	MG
TCLP Metals								
TCLP Extraction				1	1311		10-Aug	
Arsenic, TCLP	ND	mg/l	1.0	1	6010B		11-Aug 14-Aug	MM
Barium, TCLP	ND	mg/l	0.50	1	6010B		11-Aug 14-Aug	MM
Cadmium, TCLP	ND	mg/l	0.10	1	6010B		11-Aug 14-Aug	MM
Chromium, TCLP	ND	mg/l	0.20	1	6010B		11-Aug 14-Aug	MM
Lead, TCLP	ND	mg/l	0.50	1	6010B		11-Aug 14-Aug	MM
Mercury, TCLP	ND	mg/l	0.005	1	7470A		13-Aug 14-Aug	DM
Selenium, TCLP	ND	mg/l	1.0	1	6010B		11-Aug 14-Aug	MM
Silver, TCLP	ND	mg/l	0.10	1	6010B		11-Aug 14-Aug	MM
Volatile Organics by GC/MS 8260				1	8260B			
Methylene chloride	ND	ug/kg	31.					
1,1-Dichloroethane	ND	ug/kg	9.2					
Chloroform	ND	ug/kg	9.2					
Carbon tetrachloride	ND	ug/kg	6.1					
1,2-Dichloropropane	ND	ug/kg	21.					
Dibromochloromethane	ND	ug/kg	6.1					
1,1,2-Trichloroethane	ND	ug/kg	9.2					
Tetrachloroethene	ND	ug/kg	6.1					
Chlorobenzene	ND	ug/kg	21.					

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

ALPHA ANALYTICAL LABORATORIES
 CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0006331-02
 MW-3-6

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Volatile Organics by GC/MS 8260 continued				1	8260B	13-Aug	BT
Trichlorofluoromethane	ND	ug/kg	31.				
1,2-Dichloroethane	ND	ug/kg	6.1				
1,1,1-Trichloroethane	ND	ug/kg	6.1				
Bromodichloromethane	ND	ug/kg	6.1				
trans-1,3-Dichloropropene	ND	ug/kg	6.1				
cis-1,3-Dichloropropene	ND	ug/kg	6.1				
1,1-Dichloropropene	ND	ug/kg	150				
Bromoform	ND	ug/kg	6.1				
1,1,2,2-Tetrachloroethane	ND	ug/kg	6.1				
Benzene	ND	ug/kg	6.1				
Toluene	ND	ug/kg	9.2				
Ethylbenzene	ND	ug/kg	6.1				
Chloromethane	ND	ug/kg	61.				
Bromomethane	ND	ug/kg	12.				
Vinyl chloride	ND	ug/kg	12.				
Chloroethane	ND	ug/kg	12.				
1,1-Dichloroethene	ND	ug/kg	9.2				
trans-1,2-Dichloroethene	ND	ug/kg	9.2				
Trichloroethene	ND	ug/kg	6.1				
1,2-Dichlorobenzene	ND	ug/kg	31.				
1,3-Dichlorobenzene	ND	ug/kg	31.				
1,4-Dichlorobenzene	ND	ug/kg	31.				
Methyl tert butyl ether	ND	ug/kg	61.				
p/m-Xylene	ND	ug/kg	6.1				
o-Xylene	ND	ug/kg	6.1				
cis-1,2-Dichloroethene	ND	ug/kg	6.1				
Dibromomethane	ND	ug/kg	61.				
1,4-Dichlorobutane	ND	ug/kg	61.				
Iodomethane	ND	ug/kg	61.				
1,2,3-Trichloropropane	ND	ug/kg	61.				
Styrene	ND	ug/kg	6.1				
Dichlorodifluoromethane	ND	ug/kg	61.				
Acetone	ND	ug/kg	61.				
Carbon disulfide	ND	ug/kg	61.				
2-Butanone	ND	ug/kg	61.				
Vinyl acetate	ND	ug/kg	61.				
4-Methyl-2-pentanone	ND	ug/kg	61.				
2-Hexanone	ND	ug/kg	61.				
Ethyl methacrylate	ND	ug/kg	61.				
Acrolein	ND	ug/kg	150				
Acrylonitrile	ND	ug/kg	61.				
Bromochloromethane	ND	ug/kg	31.				
Tetrahydrofuran	ND	ug/kg	120				
2,2-Dichloropropane	ND	ug/kg	31.				
1,2-Dibromoethane	ND	ug/kg	31.				
1,3-Dichloropropane	ND	ug/kg	31.				
1,1,1,2-Tetrachloroethane	ND	ug/kg	31.				
Bromobenzene	ND	ug/kg	31.				
n-Butylbenzene	ND	ug/kg	31.				

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0006331-02
MW-3-6

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Volatile Organics by GC/MS 8260 continued							
sec-Butylbenzene	ND	ug/kg	31.	1	8260B	13-Aug	BT
tert-Butylbenzene	ND	ug/kg	31.				
o-Chlorotoluene	ND	ug/kg	31.				
p-Chlorotoluene	ND	ug/kg	31.				
1,2-Dibromo-3-chloropropane	ND	ug/kg	31.				
Hexachlorobutadiene	ND	ug/kg	31.				
Isopropylbenzene	ND	ug/kg	31.				
p-Isopropyltoluene	ND	ug/kg	31.				
Naphthalene	ND	ug/kg	31.				
n-Propylbenzene	ND	ug/kg	31.				
1,2,3-Trichlorobenzene	ND	ug/kg	31.				
1,2,4-Trichlorobenzene	ND	ug/kg	31.				
1,3,5-Trimethylbenzene	ND	ug/kg	31.				
1,2,4-Trimethylbenzene	ND	ug/kg	31.				
trans-1,4-Dichloro-2-butene	ND	ug/kg	31.				
Ethyl ether	ND	ug/kg	150				
Surrogate Recovery							
1,2-Dichloroethane-d4	94.0	%					
Toluene-d8	97.0	%					
1-Bromofluorobenzene	103.	%					
Dibromofluoromethane	86.0	%					

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

ALPHA Analytical Laboratories, Inc.

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

Client Name: TOWN OF EAST HADDAM
 Client Address: 7 MAIN ST.
E. HADDAM CT 06423
 Phone #: _____ FAX #: _____

Comments (Please note specific method, detection limit or reporting requirements.)
CONTACT: M. BARTOS
LAND-TECH CONSULTANTS, INC.
205 PLAYHOUSE CORNER
SOUTHBURY, CT 06488
PH: 203-264-8300

CHAIN OF CUSTODY

No 2203

Project Name: 7 MAIN
 Project Location: E. HADDAM
 Project #: E 00199-04
 Project Manager: M. BARTOS

Report To: M. BARTOS (SEE COMMENTS)
 Bill To: JAMES VENTRES
TOWN OF E. HADDAM
 PO#: _____

ALPHA Job #: 0006331

Date Rec'd in Lab: 8/2

Date Due: 8/16

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

ANALYSIS REQUEST

ALPHA Lab #	Sample ID	Matrix/Source *	Sampling Date	Sampling Time	Sampler's Initials	Solubles Field Filtered (Y/N)	TPH-IR	PCA-8 + TCLP
63311	MW-2-6	S	7/28/08		MJB		X	X
0	MW-3-6	S	8/1/08		MJB		X	X

Transfers Relinquished By: [Signature]
 Date: 8/2
 Time: 1:30

Transfers Accepted By: [Signature]
 Date: 8/2
 Time: 2:30

of Containers: 2 2 2
 Container Type: G A A
 Preservative: * A A A

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

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: Land-Tech Consultants	Laboratory Job Number: L0006658
Address: 205 Playhouse Corner	Invoice Number: 40172
Southbury, CT 06488	Date Received: 10-AUG-00
Attn: M. Bartos	Date Reported: 23-AUG-00
Project Number: E00199-04	Delivery Method: Alpha
Site: 7 MAIN ST.	

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0006658-01	MW-1	E. HADDAM, CT
L0006658-02	MW-2	E. HADDAM, CT
L0006658-03	MW-3	E. HADDAM, CT
L0006658-04	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: 

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: L0006658-01 Date Collected: 09-AUG-2000
 MW-1 Date Received : 10-AUG-2000
 Sample Matrix: WATER Date Reported : 23-AUG-00
 Condition of Sample: Satisfactory Field Prep: None

Number & Type of Containers: 2-Amber,1-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES		ID
						PREP	ANALYSIS	
Hydrocarbons, Total (IR)	1.8	mg/l	0.95	4	418.1	22-Aug	23-Aug	TH
Total Metals				1	3015			
Arsenic, Total	0.016	mg/l	0.005	1	6010B	17-Aug	19-Aug	RW
Barium, Total	0.18	mg/l	0.01	1	6010B	17-Aug	19-Aug	RW
Cadmium, Total	ND	mg/l	0.005	1	6010B	17-Aug	19-Aug	RW
Chromium, Total	0.20	mg/l	0.01	1	6010B	17-Aug	19-Aug	RW
Lead, Total	ND	mg/l	0.05	1	6010B	17-Aug	19-Aug	RW
Mercury, Total	ND	mg/l	0.0005	1	7470A	15-Aug	16-Aug	DM
Selenium, Total	ND	mg/l	0.005	1	6010B	17-Aug	19-Aug	RW
silver, Total	ND	mg/l	0.010	1	6010B	17-Aug	19-Aug	RW
Volatile Organics by GC/MS 8260				1	8260B			18-Aug AM
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	1.5					
Chloroform	2.0	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					
Tetrachloroethene	ND	ug/l	1.0					
Chlorobenzene	ND	ug/l	3.5					
Trichlorofluoromethane	ND	ug/l	5.0					
1,2-Dichloroethane	ND	ug/l	1.0					
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	5.5	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					

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0006658-01
MW-1

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Volatile Organics by GC/MS 8260 continued				1	8260B	18-Aug AM	
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-Butylbenzene	ND	ug/l	5.0				
sec-Butylbenzene	ND	ug/l	5.0				
tert-Butylbenzene	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				
Isopropylbenzene	ND	ug/l	5.0				
p-Isopropyltoluene	ND	ug/l	5.0				
Naphthalene	ND	ug/l	5.0				
n-Propylbenzene	ND	ug/l	5.0				
1,2,3-Trichlorobenzene	ND	ug/l	5.0				
1,2,4-Trichlorobenzene	ND	ug/l	5.0				
1,3,5-Trimethylbenzene	ND	ug/l	5.0				
1,2,4-Trimethylbenzene	ND	ug/l	5.0				
trans-1,4-Dichloro-2-butene	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: L0006658-01
MW-1

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Volatile Organics by GC/MS 8260 continued							
Ethyl ether	ND	ug/l	25.	1	8260B	18-Aug AM	
Surrogate Recovery							
1,2-Dichloroethane-d4	113.	%					
Toluene-d8	96.0	%					
4-Bromofluorobenzene	98.0	%					
Dibromofluoromethane	111.	%					

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: L0006658-02 Date Collected: 09-AUG-2000
 MW-2 Date Received : 10-AUG-2000
 Sample Matrix: WATER Date Reported : 23-AUG-00
 Condition of Sample: Satisfactory Field Prep: None

Number & Type of Containers: 2-Amber,1-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Hydrocarbons, Total (IR)	1.4	mg/l	0.95	4	418.1	22-Aug 23-Aug	TH
Total Metals				1	3015		
Arsenic, Total	0.047	mg/l	0.005	1	6010B	17-Aug 19-Aug	RW
Barium, Total	0.38	mg/l	0.01	1	6010B	17-Aug 19-Aug	RW
Cadmium, Total	ND	mg/l	0.005	1	6010B	17-Aug 19-Aug	RW
Chromium, Total	0.25	mg/l	0.01	1	6010B	17-Aug 19-Aug	RW
Lead, Total	0.57	mg/l	0.05	1	6010B	17-Aug 19-Aug	RW
Mercury, Total	ND	mg/l	0.0005	1	7470A	15-Aug 16-Aug	DM
Selenium, Total	ND	mg/l	0.005	1	6010B	17-Aug 19-Aug	RW
Silver, Total	ND	mg/l	0.010	1	6010B	17-Aug 19-Aug	RW
Volatile Organics by GC/MS 8260				1	8260B	19-Aug	AM
Methylene chloride	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	1.5				
Chloroform	1.9	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				
Tetrachloroethene	ND	ug/l	1.0				
Chlorobenzene	ND	ug/l	3.5				
Trichlorofluoromethane	ND	ug/l	5.0				
1,2-Dichloroethane	ND	ug/l	1.0				
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				

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

ALPHA ANALYTICAL LABORATORIES
 CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0006658-02
 MW-2

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Volatile Organics by GC/MS 8260 continued				1	8260B	19-Aug AM	
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.				
1-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-Butylbenzene	ND	ug/l	5.0				
sec-Butylbenzene	ND	ug/l	5.0				
tert-Butylbenzene	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				
Isopropylbenzene	ND	ug/l	5.0				
p-Isopropyltoluene	ND	ug/l	5.0				
Naphthalene	ND	ug/l	5.0				
n-Propylbenzene	ND	ug/l	5.0				
1,2,3-Trichlorobenzene	ND	ug/l	5.0				
1,2,4-Trichlorobenzene	ND	ug/l	5.0				
1,3,5-Trimethylbenzene	ND	ug/l	5.0				
1,2,4-Trimethylbenzene	ND	ug/l	5.0				
trans-1,4-Dichloro-2-butene	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: L0006658-02
MW-2

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Volatile Organics by GC/MS 8260 continued							
Ethyl ether	ND	ug/l	25.	1	8260B	19-Aug	AM
Surrogate Recovery							
1,2-Dichloroethane-d4	114.	%					
Toluene-d8	94.0	%					
4-Bromofluorobenzene	99.0	%					
Dibromofluoromethane	113.	%					

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: L0006658-03 Date Collected: 09-AUG-2000
 MW-3 Date Received : 10-AUG-2000
 Sample Matrix: WATER Date Reported : 23-AUG-00
 Condition of Sample: Satisfactory Field Prep: None
 Number & Type of Containers: 2-Amber,1-Plastic,2-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES		ID
						PREP	ANALYSIS	
Hydrocarbons, Total (IR)	ND	mg/l	0.95	4	418.1	22-Aug	23-Aug	TH
Total Metals				1	3015			
Arsenic, Total	ND	mg/l	0.005	1	6010B	17-Aug	19-Aug	RW
Barium, Total	0.03	mg/l	0.01	1	6010B	17-Aug	19-Aug	RW
Cadmium, Total	ND	mg/l	0.005	1	6010B	17-Aug	19-Aug	RW
Chromium, Total	ND	mg/l	0.01	1	6010B	17-Aug	19-Aug	RW
Lead, Total	ND	mg/l	0.05	1	6010B	17-Aug	19-Aug	RW
Mercury, Total	ND	mg/l	0.0005	1	7470A	15-Aug	16-Aug	DM
Selenium, Total	ND	mg/l	0.005	1	6010B	17-Aug	19-Aug	RW
Silver, Total	ND	mg/l	0.010	1	6010B	17-Aug	19-Aug	RW
Volatile Organics by GC/MS 8260				1	8260B			19-Aug AM
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	1.5					
Chloroform	ND	ug/l	1.5					
Carbon tetrachloride	ND	ug/l	1.0					
1,2-Dichloropropane	ND	ug/l	3.5					
Dibromochloromethane	ND	ug/l	1.0					
1,1,2-Trichloroethane	ND	ug/l	1.5					
Tetrachloroethene	ND	ug/l	1.0					
Chlorobenzene	ND	ug/l	3.5					
Trichlorofluoromethane	ND	ug/l	5.0					
1,2-Dichloroethane	ND	ug/l	1.0					
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					

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0006658-03
MW-3

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Volatile Organics by GC/MS 8260 continued				1	8260B	19-Aug	AM
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-Butylbenzene	ND	ug/l	5.0				
sec-Butylbenzene	ND	ug/l	5.0				
tert-Butylbenzene	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				
Isopropylbenzene	ND	ug/l	5.0				
p-Isopropyltoluene	ND	ug/l	5.0				
Naphthalene	ND	ug/l	5.0				
n-Propylbenzene	ND	ug/l	5.0				
1,2,3-Trichlorobenzene	ND	ug/l	5.0				
1,2,4-Trichlorobenzene	ND	ug/l	5.0				
1,3,5-Trimethylbenzene	ND	ug/l	5.0				
1,2,4-Trimethylbenzene	ND	ug/l	5.0				
trans-1,4-Dichloro-2-butene	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: L0006658-03
 MW-3

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Volatile Organics by GC/MS 8260 continued							
Ethyl ether	ND	ug/l	25.	1	8260B	19-Aug	AM
Surrogate Recovery							
1,2-Dichloroethane-d4	109.	%					
Toluene-d8	107.	%					
4-Bromofluorobenzene	97.0	%					
Dibromofluoromethane	110.	%					

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: L0006658-04

Date Collected: 24-JUL-2000

Sample Matrix:

TRIP BLANK

Date Received : 10-AUG-2000

WATER

Date Reported : 23-AUG-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	19-Aug	BT
Methylene chloride	ND	ug/l	5.0				
1,1-Dichloroethane	ND	ug/l	1.5				
Chloroform	ND	ug/l	1.5				
Carbon tetrachloride	ND	ug/l	1.0				
1,2-Dichloropropane	ND	ug/l	3.5				
Dibromochloromethane	ND	ug/l	1.0				
1,1,2-Trichloroethane	ND	ug/l	1.5				
Tetrachloroethene	ND	ug/l	1.0				
Chlorobenzene	ND	ug/l	3.5				
Trichlorofluoromethane	ND	ug/l	5.0				
1,2-Dichloroethane	ND	ug/l	1.0				
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.				
Iodomethane	ND	ug/l	10.				

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

ALPHA ANALYTICAL LABORATORIES
 CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0006658-04
 TRIP BLANK

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP ANALYSIS	ID
Volatile Organics by GC/MS 8260 continued				1	8260B	19-Aug	BT
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-Butylbenzene	ND	ug/l	5.0				
sec-Butylbenzene	ND	ug/l	5.0				
tert-Butylbenzene	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				
Isopropylbenzene	ND	ug/l	5.0				
p-Isopropyltoluene	ND	ug/l	5.0				
Naphthalene	ND	ug/l	5.0				
n-Propylbenzene	ND	ug/l	5.0				
1,2,3-Trichlorobenzene	ND	ug/l	5.0				
1,2,4-Trichlorobenzene	ND	ug/l	5.0				
1,3,5-Trimethylbenzene	ND	ug/l	5.0				
1,2,4-Trimethylbenzene	ND	ug/l	5.0				
trans-1,4-Dichloro-2-butene	ND	ug/l	5.0				
Ethyl ether	ND	ug/l	25.				
Surrogate Recovery							
1,2-Dichloroethane-d4	121.	%					
Toluene-d8	96.0	%					
4-Bromofluorobenzene	101.	%					
Dibromofluoromethane	108.	%					

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

ALPHA Analytical Laboratories, Inc.

Eight Walkup Drive Westborough, MA 01581
 PH: 508.898.9220 FAX: 508.898.9193 www.alpha-lab.com

Client Name: TOWN OF EAST HADDAM
 Client Address: 7 MAIN ST.
 EAST HADDAM, CT 06423
 Phone #: FAX #:

CHAIN OF CUSTODY

No 2204

Sheet 1 of 1

Project Name: 7 MAIN
 Project Location: E. HADDAM
 Project #: E00199-04
 Project Manager: M. BAETOS

Report To: M. BAETOS
 Bill To: JAMES VENTURES
 TOWN OF E. HADDAM

ALPHA Job #: 000658

Date Rec'd in Lab: 8/10

Date Due: 8/24

Standard TAT
 RUSH TAT
 FAX Results
 State Forms
 Smart Report

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

CONTACT: M. BAETOS
 LAND-TECH CONSULTANTS INC.
 205 PLAYHOUSE CORNER
 SOUTHBRURY CT 06788
 203.264.8300

ANALYSIS REQUEST

ALPHA Lab #	Sample ID	Matrix/Source *	Sampling Date	Sampling Time	Sampler's Initials	Solubles: Field Filtered: (Y/N)	8260	TPH-12	BCPA-28 (Total)
0658-1	MW-1	GW	8/9/00		MJB	N	X	X	X
2	MW-2	GW				N	X	X	X
3	MW-3	GW				N	X	X	X
4	TRIP BLANK		7/24/00	1415			X		

# of Containers:	7	6	3
Container Type:	V	A	P
Preservative:	B	B	C

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

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

Time	1000	8/10/00	4:00	8/10/00
Date	8/10/00	8/10/00	8/10/00	8/10/00
Transfers Accepted By:	M. Baetos			
Transfers Relinquished By:	M. Baetos			



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

November 21, 2000

FOR: Attn: Mr. Michael Bartos, Jr.
Land-Tech Consultants, Inc.
205 Playhouse Corner
Southbury, CT 06488

Sample Information

Matrix: WATER
Location Code: LANDTECH
Project Code:
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see below

Date Time
11/15/00 0:00
11/16/00 17:00

Laboratory Data

Client ID: 7 MAIN MW-1

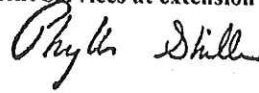
Phoenix I.D. AD00753

Parameter	Result	RL	Units	Date	Time	by	Reference
Pesticide Extraction	Completed			11/16/00	20:58	PL	SW846-3510
<u>Pesticide</u>							
4,4' -DDD	ND	0.1	ug/L	11/20/00	9:42	KCA	608/8081
4,4' -DDE	ND	0.1	ug/L	11/20/00	9:42	KCA	608/8081
4,4' -DDT	ND	0.1	ug/L	11/20/00	9:42	KCA	608/8081
a-BHC	ND	0.05	ug/L	11/20/00	9:42	KCA	608/8081
Aldrin	ND	0.05	ug/L	11/20/00	9:42	KCA	608/8081
b-BHC	ND	0.05	ug/L	11/20/00	9:42	KCA	608/8081
Chlordane	ND	0.3	ug/L	11/20/00	9:42	KCA	608/8081
d-BHC	ND	0.05	ug/L	11/20/00	9:42	KCA	608/8081
Dieldrin	ND	0.1	ug/L	11/20/00	9:42	KCA	608/8081
Endosulfan I	ND	0.05	ug/L	11/20/00	9:42	KCA	608/8081
Endosulfan II	ND	0.1	ug/L	11/20/00	9:42	KCA	608/8081
Endosulfan Sulfate	ND	0.1	ug/L	11/20/00	9:42	KCA	608/8081
Endrin	ND	0.1	ug/L	11/20/00	9:42	KCA	608/8081
Endrin Aldehyde	ND	0.1	ug/L	11/20/00	9:42	KCA	608/8081
g-BHC (Lindane)	ND	0.05	ug/L	11/20/00	9:42	KCA	608/8081
Heptachlor	ND	0.05	ug/L	11/20/00	9:42	KCA	608/8081
Heptachlor epoxide	ND	0.05	ug/L	11/20/00	9:42	KCA	608/8081
Methoxychlor	ND	0.2	ug/L	11/20/00	9:42	KCA	608/8081
Toxaphene	ND	1.0	ug/L	11/20/00	9:42	KCA	608/8081

Comments:

ND=Not detected BDL = Below Detection Limit RL=Reporting Limit

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.



Phyllis Shiller, Laboratory Director
November 21, 2000



Environmental Laboratories, Inc.

567 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

November 21, 2000

FOR: Attn: Mr. Michael Bartos, Jr.
Land-Tech Consultants, Inc.
205 Playhouse Corner
Southbury, CT 06488

Sample Information

Matrix: WATER
Location Code: LANDTECH
Project Code:
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see below

Date Time
11/15/00 0:00
11/16/00 17:00

Laboratory Data

Client ID: 7 MAIN MW-2

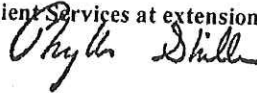
Phoenix I.D. AD00754

Parameter	Result	RL	Units	Date	Time	by	Reference
Pesticide Extraction	Completed			11/16/00	20:58	PL	SW846-3510
<u>Pesticide</u>							
4,4' -DDD	ND	0.1	ug/L	11/20/00	9:42	KCA	608/8081
4,4' -DDE	ND	0.1	ug/L	11/20/00	9:42	KCA	608/8081
4,4' -DDT	ND	0.1	ug/L	11/20/00	9:42	KCA	608/8081
a-BHC	ND	0.05	ug/L	11/20/00	9:42	KCA	608/8081
Aldrin	ND	0.05	ug/L	11/20/00	9:42	KCA	608/8081
b-BHC	ND	0.05	ug/L	11/20/00	9:42	KCA	608/8081
Chlordane	ND	0.3	ug/L	11/20/00	9:42	KCA	608/8081
d-BHC	ND	0.05	ug/L	11/20/00	9:42	KCA	608/8081
Dieldrin	ND	0.1	ug/L	11/20/00	9:42	KCA	608/8081
Endosulfan I	ND	0.05	ug/L	11/20/00	9:42	KCA	608/8081
Endosulfan II	ND	0.1	ug/L	11/20/00	9:42	KCA	608/8081
Endosulfan Sulfate	ND	0.1	ug/L	11/20/00	9:42	KCA	608/8081
Endrin	ND	0.1	ug/L	11/20/00	9:42	KCA	608/8081
Endrin Aldehyde	ND	0.1	ug/L	11/20/00	9:42	KCA	608/8081
g-BHC (Lindane)	ND	0.05	ug/L	11/20/00	9:42	KCA	608/8081
Heptachlor	ND	0.05	ug/L	11/20/00	9:42	KCA	608/8081
Heptachlor epoxide	ND	0.05	ug/L	11/20/00	9:42	KCA	608/8081
Methoxychlor	ND	0.2	ug/L	11/20/00	9:42	KCA	608/8081
Toxaphene	ND	1.0	ug/L	11/20/00	9:42	KCA	608/8081

Comments:

ND=Not detected BDL = Below Detection Limit RL=Reporting Limit

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.



Phyllis Shiller, Laboratory Director
November 21, 2000



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (860) 645-1102 Fax (860) 645-0823

QC Report

AD00756

November 21, 2000

Sample ID AD00756

Analysis: Pesticides (GC) Analysis QC		AD00756		
Analyte	Method Blank (ppb)	Matrix Spike (% Rec)	Matrix Spike Dup. (% Rec.)	RPD
-				
g-BHC	ND	73%	82%	12%
Heptachlor	ND	70%	81%	15%
Aldrin	ND	69%	81%	16%
Dieldrin	ND	80%	90%	12%
Endrin	ND	92%	99%	7%
4,4'-DDT	ND	94%	94%	11%

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

Phyllis Shiller
Laboratory Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040
Tel. (860) 645-1102 Fax (860) 645-0823

CHAIN OF CUSTODY RECORD

DATE RCVD: _____

Client Services (860) 645-8726

Customer: TOWN OF EAST HADDAM Project: 7 MAIN Project P.O.: _____
Address: 7 MAIN ST. Report To: F.I. BARTON - LAND TECH Phone #: (860) 264 8300
E. HADDAM CT 06403 Invoice To: J. VENTRES E. HADDAM Fax #: (860) 264 2995

Client Sample - Information - Identification

Item #	Customers Sample Ident	Sample Matrix	Date	Time
1	MW-1	GW	1/15/00	
2	MW-2	↓	↓	
3	MW-3			

Analysis Requested

PH. VIALS	PH. + HNO ₃	PH. + NH ₄ OH	GL + H ₂ SO ₄ (100C)	GL + H ₂ SO ₄	GL + HNO ₃	PHENIX SAMPLE #
						00753
						00754
						00755
						00756

Comments:

Item #	Relinquished by:	Accepted by:	Date:	Time:
1-3	<i>M. Barton</i>	<i>M. Barton</i>	1/15/00	12:40
1-3	<i>M. Barton</i>	<i>B. Bartolo</i>	1/14/00	17:00

Standard lab turnaround is 10 working days. Accelerated turnarounds are always available. Check with office on prevailing surcharge. ACCELERATED TURN-

AROUND TIME REQUESTED: 1 2 3 4 5 working days.