

Appendix F

Significant Environmental Hazard Notification and Related Well Tests



STATE OF CONNECTICUT  
 DEPARTMENT OF ENVIRONMENTAL PROTECTION  
 BUREAU OF WATER MANAGEMENT  
 PERMITTING, ENFORCEMENT & REMEDIATION DIVISION  
 79 ELM STREET, HARTFORD, CT 06106-5127

RECEIVED  
 SEP 08 2000  
 WATER MANAGEMENT BUREAU

## Significant Environmental Hazard Report

### Notification under PA 98-134

Please complete this form in accordance with the instructions (DEP-PERD-EHR-INS-100). Print or type unless otherwise noted.

If necessary use addendum pages and check box:

DEP USE ONLY		
✓ 200		
<input type="checkbox"/> Acknowledged		
<input type="checkbox"/> Assigned		
<input type="checkbox"/> Phone:	Date	Time

### Part I - Site Information

1. Site identification for source of pollution causing an environmental hazard:

Name of Site*	MUNICIPAL OFFICES AND TOWN GARAGE					
Address or Location*	7 MAIN STREET					
City/Town*	EAST HADDAM	State	CT	Zip Code	06423	
EPA ID#	CT	DEP-WPC #		DEP Inventory #		

2. Attach a copy of a topographic map with the site located thereon. map attached

3. Business/person submitting form\*: Check if:  Property Owner  TEP Client

Name	TOWN OF EAST HADDAM					
Mailing Address	7 MAIN STREET					
City/Town	EAST HADDAM	State	CT	Zip Code	06423	
Business Phone	860-873-5031	Ext.		Fax	860-873-5042	
Authorized Rep.	SUSAN D. MERROW	Title	FIRST SELECTMAN			
Contact Person	JAMES VENTRES	Title	LAND-USE ADMINISTRATOR			

4. Owner of site, if different from above:

Name						
Mailing Address						
City/Town		State		Zip Code		
Business Phone		Ext.		Fax		
Contact Person		Title				

**Part I - Site Information (continued)**

5. Operator/Tenant at site, if different from owner:

Name/Firm				
Mailing Address				
City/Town		State		Zip Code
Business Phone		Ext.		Fax
Contact Person		Title		

6. TEP making determination environmental hazard exists: Check if none

Firm	LAND-TECH CONSULTANTS, INC.			
Mailing Address	205 PLAYHOUSE CORNER			
City/Town	SOUTHBURY	State	CT	Zip Code 06488
Business Phone	203-264-8300	Ext.		Fax 203-264-5995
Contact Person	MICHAEL J. BARTOS, JR.	Title	SENIOR ASSOCIATE	

7. Environmental consultant for mitigation activity, if not above TEP Check if none

Firm				
Mailing Address				
City/Town		State		Zip Code
Business Phone		Ext.		Fax
Contact Person		Title		

**Part II - Hazard Summary**

1. Hazard condition identified: (check appropriate box)

<input type="checkbox"/> Surface soil contamination	Drinking water supply well:
<input type="checkbox"/> Volatile organic compounds beneath a building	<input type="checkbox"/> Contamination above groundwater protection criteria
<input type="checkbox"/> Surface water threatened	<input type="checkbox"/> Contamination detected
<input type="checkbox"/> Explosion threat	<input checked="" type="checkbox"/> Threatened

2. Attach a sketch map indicating location of contamination or condition location on site. Map attached

Part II - Hazard Summary (continued)

3. How was the pollutant released?

<input checked="" type="checkbox"/> unknown	<input type="checkbox"/> landfill/wastepile	<input type="checkbox"/> septic system	<input type="checkbox"/> UST leak
<input type="checkbox"/> spill/dumping	<input type="checkbox"/> burial	<input type="checkbox"/> dry well	<input type="checkbox"/> drums
<input type="checkbox"/> agricultural activity	<input type="checkbox"/> pit	<input type="checkbox"/> lagoon	<input type="checkbox"/> discharge

4. What is the general nature of the contamination?

<input checked="" type="checkbox"/> petroleum/oils	organic chemicals:		<input checked="" type="checkbox"/> metals	<input type="checkbox"/> sodium/salt
<input type="checkbox"/> gasoline	<input type="checkbox"/> volatile	<input type="checkbox"/> semivolatile	<input type="checkbox"/> cyanide	<input type="checkbox"/> leachate
<input type="checkbox"/> fuel oil/diesel	<input type="checkbox"/> nonchlorinated	<input type="checkbox"/> polyaromatic	<input type="checkbox"/> acid/base	<input type="checkbox"/> asbestos
<input type="checkbox"/> nitrate/fertilizer	<input type="checkbox"/> chlorinated	<input type="checkbox"/> pesticide/herbicide	<input type="checkbox"/> PCB	<input type="checkbox"/> radiation

5. For drinking water supply above criteria and explosion threat only:

Was oral notification to DEP made? <input type="checkbox"/> No <input type="checkbox"/> Yes				
Date		Time		DEP contact
Was verification to TEP client made? <input type="checkbox"/> No <input type="checkbox"/> Yes				
Date		Time		Contact

6. If the release is due to a spill was spill notification made?  No  Yes  Not a spill

Date		Time		DEP contact
------	--	------	--	-------------

7. Identify any affected or threatened drinking water supply wells\*: Check if none affected

Address/Town*	Contact Name/Phone	Pop-ulation	Pollutant† and Concentration in Well*
7 Main Street, E. Haddam	James Ventres 860-873-5030		Threatened
15 Main Street, E. Haddam	Zaniewski		Threatened
10 Main Street, E. Haddam	Poulos		Threatened
14 Main Street, E. Haddam	Goodspeed Opera House		Threatened

Attach additional sheets as needed

† see instruction for pollutant codes, list well analyses only; if threatened well due to groundwater plume within 500 ft. indicate "THREATENED" and complete next section also

Part II Hazard Summary (continued)

8. For a groundwater contamination plume which is a hazard:

Check if none

List pollutants present in plume above criteria and highest concentrations detected:

Pollutant†	Concentration	Pollutant†	Concentration
TPH	1800 ug/L	As	47 ug/L
Cr (total)	250 ug/L		
Pb	570 ug/L		

Attach additional sheets as needed † see instruction for pollutant codes

9. Identify any other affected properties:

Check if none affected

Address/Town	Hazard, Pollutant† & Concentration	Contact Name	Phone
Connecticut River	TPH 1800 ug/L, As 47 ug/L, Cr 250 ug/L, Pb 570 ug/L		
Succor Brook	TPH 1800 ug/L, As 47 ug/L, Cr 250 ug/L, Pb 570 ug/L		

Attach additional sheets as needed † see instruction for pollutant codes

10. Describe the land use of the site and surrounding area, and identify any sensitive land uses within 1/4 mile of the site:

Property is used for municipal offices, town garage and warehouse used by Goodspeed Opera House. Surrounding area is densely developed with mixed residential and commercial use. Connecticut River borders property to the west. Succor Brook and associated wetlands are south and east of the property.

11. Additional comments regarding the hazard:

Attach additional sheets as required

**Part III - Past DEP Involvement (OPTIONAL)**

1. Property transfer filings:

Check if none

Form (I-IV)	Date	Transferor

**Part III - Past DEP Involvement (OPTIONAL) (continued)**

2. Voluntary remediation/ECAF filings: Check if none

Date	Filing Party	DEP determination

3. DEP staff involved with assessment or remediation of the site: Check if none

Time Period	DEP Section	Name

4. Past enforcement actions regarding remediation: Check if none

Agency (EPA/DEP)	Action Type and Number	Date	Name of Party	Purpose and Status

5. Releases previously reported to CT DEP Oil & Chemical Spills Division: Check if none

Date	Material Released	Quantity

6. Describe other relevant DEP involvement: Check if none

RCRA Notifier Status	RCRA Permit Status

7. What environmental reports exist for the site and are available to DEP? Check if none

Type of Report	Date (mo/yr)	Preparer	Attached? (Y/N)	Previously submitted?	DEP Unit to which sent
Field investigation/ Environmental Assessment					
Phase I					
Phase 2					
Phase 3					

**Part IV - Actions to Abate Hazard**

Check if plan or report attached

Describe actions taken to abate hazard condition:

Check if none

Municipal offices and town garage use bottled water and do not drink well water.

Describe actions to be taken to abate hazard condition:

Check if none

Determine extent of contamination.  
Survey threatened properties and sample water supply wells for presence of TPH and metals.

**Part V - Signature**

"I have personally examined and am familiar with the information submitted in this document and all attachments, and certify that based on reasonable investigation the submitted information is true and accurate to the best of my knowledge and belief. I certify that this form is complete and accurate as prescribed by the Commissioner without alteration of the text."

Name (print or type)	Susan D. Merrow	Title (if applicable)	First Selectman
Signature	<i>Susan D Merrow</i>	Date, <i>9/6/00</i>	

<sup>\*</sup> signifies information required by PA 98-134

Continuation of:

7. Identify any affected or threatened drinking water supply wells:  Check if none affected

Address/Town	Contact Name/Phone	Pop-ulation	Pollutant* and Concentration in Well
2 Norwich Road, E. Haddam	Schleidt		Threatened
4 Norwich Road, E. Haddam	DiErrico		Threatened
6 Norwich Road, E. Haddam	Stone		Threatened
8 Norwich Road, E. Haddam	Davis		Threatened
3 Norwich Road, E. Haddam	D'Aquila		Threatened
19 Norwich Road, E. Haddam	Bogan		Threatened
17 Norwich Road, E. Haddam	Goodspeed Opera House		Threatened

Attach additional sheets as needed

\* see instruction for pollutant codes, list well analyses only; if threatened well due to groundwater plume within 500 ft. indicate "THREATENED" and complete next section also





## LOCATION MAP

1" = 2000'

TOWN GARAGE AND MUNICIPAL OFFICES  
 7 MAIN STREET  
 EAST HADDAM, CONNECTICUT



# LAND-TECH CONSULTANTS, INC.

ENVIRONMENTAL SCIENTISTS AND ENGINEERS

## Memorandum

**DATE:** December 22, 2000  
**TO:** Ken Feathers  
**FROM:** Mike Bartos  
**RE:** East Haddam

Via FAX @ 860-424-4057

Here is a table summarizing exceedances based on sampling of tap water from properties surrounding the East Haddam Town Hall. The three properties have office and retail use on street level and residential use on upper floor.

	Drinking Water Well Ground-water Protection Criteria (ug/L)	2 Norwich Road (ug/L)	4 Norwich Road (ug/L)	15 Main Street (ug/L)	19 Main Street (ug/L)
Date Sampled		10/6/00	10/6/00	10/6/00	10/6/00
Arsenic	50	ND	7	ND	ND
Barium	1000	30	ND	18	ND
Cadmium	5	ND	ND	ND	ND
Chromium	50	ND	ND	ND	ND
Lead	15	7	2	22	2
Mercury	2	ND	ND	ND	ND
Selenium	50	ND	ND	ND	ND
Silver	36	ND	ND	ND	ND
TPH	500	31,000	30,000	ND	19,000

FILE Wells\_500'\_Lab\_DEP\_1200.doc

205 Playhouse Corner  
Southbury, CT 06488  
Phone: 203-264-8300  
Fax: 203-264-5995

E-mail: [landtech@landtechconsult.com](mailto:landtech@landtechconsult.com)  
[www.landtechconsult.com](http://www.landtechconsult.com)

31 Franklin Street  
Westport, CT 06880  
Phone: 203-454-2110  
Fax: 203-454-4971



# DEPARTMENT OF ENVIRONMENTAL PROTECTION

BUREAU OF WATER MANAGEMENT  
Permitting, Enforcement and Remediation Division



## ACKNOWLEDGEMENT

July 2, 2001

James Ventres  
Land Use Administrator  
Town of East Haddam  
7 Main Street  
East Haddam, CT 06423

RE: Notification of Significant Environmental Hazard  
Municipal offices and Town Garage, 7 Main Street, East Haddam

Dear Mr. Ventres:

This is to acknowledge receipt, on September 8, 2000, of your written notification, under the requirements of Connecticut General Statutes (CGS) Section 22a-6u. This notification reported the presence of an environmental hazard at the Municipal offices and Town Garage, located at 7 Main Street in East Haddam. Your notification identified the following significant environmental hazard:

Groundwater pollution with petroleum and metals exceeding adopted groundwater protection criteria is located within 500 feet of supply wells.

Thank you for notifying DEP of this condition. I apologize for the delay in sending this acknowledgement letter. DEP understands that in the intervening period you have discussed this site with Kenneth Feathers of DEP staff, and sampled and re-sampled supply wells in proximity to the site, with inconclusive results regarding site impact on these supply wells.

Within 90 days of receipt of this acknowledgement, please submit to the attention of the staff member identified below, the following:

1. a letter report of your actions, including all test results, and
2. recommendations for further action, including additional monitoring, with an implementation schedule.


If you have any questions regarding your obligations specified in this letter, please contact Jon Goldman of the DEP at 860-424-3785.

200ack.doc

( Printed on Recycled Paper )  
79 Elm Street • Hartford, CT 06106 - 5127  
<http://dep.state.ct.us>

Page 1 of 2

An Equal Opportunity Employer

*Celebrating Connecticut Coastal Resource Management: 1980 - 2000* 

Sincerely,



Michael Harder  
Director

MH:KRF

CERTIFIED MAIL RRR

7099 3400 0009 5065 4179

-- CC:

Michael J. Bartos, Jr., Senior Associate, Land-Tech Consultants, Inc., 205 Playhouse Corner, Southbury, CT, 06488  
Kathryn Johnson, M.D., Acting Director of Health, Town of East Haddam, P. O. Box K, East Haddam, CT 06423  
Jon Goldman, DEP  
Kenneth Feathers, DEP



# LAND-TECH CONSULTANTS, INC.

ENVIRONMENTAL SCIENTISTS AND ENGINEERS

File  
E. Haddam  
Env

December 4, 2001

Mr. Jon Goldman  
Bureau of Waste Management  
Department of Environmental Protection  
79 Elm Street  
Hartford, CT 06106-5127

Re: Notification of Significant Environmental Hazard  
Municipal Offices and Town Garage, 7 Main Street, East Haddam

Dear Mr. Goldman:

In an acknowledgement letter dated July 2, 2001 to James Ventres, the Department requested:  
*"1. a letter of your actions, including all test results, and 2. recommendations for further action, including monitoring, with an implementation schedule."*

This letter presents the town of East Haddam's response to that request. The remainder of this letter sets forth a brief summary of the subsurface investigation that led to the notification of a significant environmental hazard, subsequent water-supply test results, and recommendations for additional monitoring.

### Background - Initial Subsurface Investigation

In July 2000, Land Tech conducted a subsurface investigation to evaluate potential soil and groundwater contamination primarily related to the town garage, the storage shed near the warehouse at 7 Main Street, and an underground dry well or tank near the River House. The investigation included obtaining and testing soil and groundwater samples from monitor wells in three locations on the property.

One monitor well (MW-1) is near the River House; a second (MW-2) is immediately next to the town garage; and the third (MW-3) is near the storage shed where a gasoline UST was removed in January, 2000. The monitor well locations appear on Figure 1.

In all three monitor wells, soil beneath the topsoil or pavement layer was sandy to the bottom of the boring or to refusal. In MW-1 and MW-2, ledge was encountered at 4.5 and 8 feet below ground surface (bgs) respectively. No ledge was encountered in MW-3. No split spoon samples or auger cuttings from any of the borings exhibited either odors or discoloration that would suggest contamination.

There was no soil sample from MW-1. Split spoon soil samples from MW-2 and MW-3 taken at a depth of 5-7 feet bgs were sent to the lab for testing. Both soil samples were tested in the laboratory for total petroleum hydrocarbons (TPH) by EPA Method 418.1 (infrared), for volatile and aromatic organic compounds by EPA Method 8260, and for RCRA-8 heavy metals (arsenic,

barium, cadmium, chromium, lead, mercury, selenium, silver and zinc) on a total basis and using the toxicity characteristic leaching procedure (TCLP). The laboratory did not detect TPH, VOCs or metals in any of the soil samples in concentrations exceeding the levels set forth in the Remediation Standard Regulations (RSRs) published by the DEP (Table 1).

TABLE 1: SUMMARY OF SOIL TEST RESULTS				
Sample Date: 7/28/00				
	RSR Criteria for GA area		Sample Location (Sample Depth)	
	DEC	PMC	MW-2 (5-7 ft bgs)	MW-3 (5-7 ft bgs)
TPH by IR, mg/kg	500	2500	200	54
VOCs by 8260	VARY	VARY	ND	ND
Arsenic (total), mg/kg	10		3.5	5.6
Arsenic (TCLP), mg/L		0.05	ND	ND
Barium (total), mg/kg	4700		28	33
Barium (TCLP), mg/L		1.0	ND	ND
Chromium (total), mg/kg	See Note		18	28
Chromium (TCLP), mg/L		0.05	ND	ND
Lead (total), mg/kg	500		31	8.5
Lead (TCLP), mg/L		0.015	ND	ND
Other Metals	VARY	VARY	ND	ND

Notes:  
 DEC = Direct Exposure Criteria of DEP Remediation Standard Regulations.  
 PMC = Pollutant Mobility Criteria of DEP Remediation Standard Regulations.  
 bgs = below ground surface.  
 ND = not detected.  
 Site is in GB groundwater classification area, but GA criteria applied because no public water supply available to site.  
 Most stringent chromium DEC is 100 mg/kg, for hexavalent chromium.  
 All samples tested for VOCs by EPA Method 8260.  
 TPH by IR = EPA Method 418.1.

A week after monitor well construction, groundwater samples were obtained from the three monitor wells and tested in the laboratory for TPH, VOCs and metals. The laboratory did not detect TPH, VOCs or metals in the groundwater sample from MW-3 in concentrations exceeding the levels set forth in the RSRs. The laboratory detected chromium and TPH in groundwater samples from MW-1 and lead, chromium and TPH in MW-2 in concentrations exceeding the groundwater protection criteria set forth in the RSRs (Table 2).

On August 30, 2000, Land Tech sampled the tap water at the town hall to determine whether the contamination detected at MW-1 and MW-2 was also present in the on-site water-supply well. The sample is representative of water pumped from the well located between the River House and the town garage (see Figure 1). Lab testing did not detect TPH or metals, except lead (1.0 ug/L). This well serves the former town garage, the River House, and the town hall. The

water has not been used for consumption for many years. The buildings use bottled water for drinking.

On November 15, 2000, Land Tech sampled all three monitor wells and had the samples tested for pesticides. None were detected.

	GPC	MW-1	MW-2	MW-3
TPH by IR, ug/L	500	<b>1800</b>	<b>1400</b>	ND
Chloroform, ug/L	6	2.0	1.9	ND
Toluene, ug/L	1000	5.5	ND	ND
Other VOCs by 8260	VARY	ND	ND	ND
Arsenic, ug/L	50	16	47	ND
Barium, ug/L	1000	180	380	30
Chromium (total), ug/L	50	200	250	ND
Lead, ug/L	15	ND	570	ND
Other Metals	VARY	ND	ND	ND

Notes:  
GPC = Groundwater Protection Criteria of DEP Remediation Standard Regulations.  
ND = not detected.  
Site is in GB groundwater classification area, but GA criteria applied because no public water supply available to site.  
NE = Not Established.  
All samples tested by EPA Method 8260.  
Values in **BOLD** exceed limits in Remediation Standard Regulations.  
TPH by IR = EPA Method 418.1  
Lab testing of samples obtained from all 3 MWs on 11/15/00 detected no pesticides.  
Lab testing of tap water sample obtained from town hall on 8/30/00 detected lead (1.0 ug/L) and no other metals and no TPH.

### Surrounding Wells

Because the concentrations of TPH and some metals in MW-2 and MW-1 exceeded the Groundwater Protection Criteria and these wells are within 500 feet of drinking water supply wells, East Haddam submitted a notification of significant environmental hazard to the DEP. The notification was made in September of 2000. Ken Feathers of the Department subsequently contacted Land Tech and requested that residential wells within 500 feet of the groundwater contamination be tested.

Land Tech sampled the residential wells plus the non-residential wells at Williams Chevrolet and the Goodspeed Opera House, which are nearby. The results appear in Table 3 below. The initial results showed the presence of TPH in five wells and lead in one well in which TPH was not detected.

Mr. Jon Goldman  
Re: 7 Main Street, East Haddam, CT

December 4, 2001  
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Because the well samples exhibited no odor or sheen, Land Tech did not believe the TPH results to be valid. After discussion with Ken Feathers, Land Tech re-sampled the residential wells in which TPH was initially reported and tested those samples by more reliable and precise test methods.

The residential well samples, taken on 12/26/00 and 1/3/01, were tested by Phoenix Laboratory for VOCs by Method 524.2, and three were tested by the Department of Health Services Laboratory by Method 525.2 for semi-volatiles. Test results (Table 4) showed no significant petroleum compounds to be present. It is reasonable to conclude, therefore, that the wells have no TPH contamination. Land Tech believes the high TPH levels reported in the original TPH testing to have resulted from either lab error or false positives, commonly encountered with the infrared test method.

Land Tech also re-sampled the well located at 15 Main Street for lead on 12/26/00. One sample was taken from an indoor tap with no flushing, then a second sample was obtained from the same tap after five minutes of flushing. The lead concentration in the second sample was substantially lower in the sample taken after flushing. Although inconclusive, this suggests the possibility of a lead problem in the plumbing, rather than contamination in the groundwater.

LAND-TECH CONSULTANTS, INC.



Mr. Jon Goldman  
Re: 7 Main Street, East Haddam, CT

TABLE 3: SUMMARY OF TAP WATER SAMPLING IN VICINITY

Date Sampled	GPC (ug/L)	2 Norwich Road (ug/L)	4 Norwich Road (ug/L)	7 Main Street (ug/L)	9 Main Street (ug/L)	12 Main Street (ug/L)	15 Main Street (ug/L)	17 Main Street (ug/L)	19 Main Street (ug/L)	Goodspeed Opera House (ug/L)	Williams Chevrolet (ug/L)
		10/6/00	10/6/00	8/30/00	10/6/00	10/6/00	10/6/00	10/6/00	10/6/00	10/6/00	10/6/00
Arsenic	50	BDL	7	BDL	5	4	BDL	8	BDL	BDL	BDL
Barium	1000	30	BDL	BDL	9	BDL	18	BDL	BDL	BDL	30
Cadmium	5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chromium	50	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Lead	15	7	2	1	2	1	22	3	2	2	3
Mercury	2	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.2	BDL
Selenium	50	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Silver	36	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
TPH-IR	500	31,000	30,000	BDL	BDL	BDL	BDL	BDL	19,000	14,000	25,000

Notes: GWP = Groundwater Protection Criteria of DEP Remediation Standard Regulations.

GWP = Groundwater Protection Criteria of DEP Remediation Standard Regulations.

BDL = Below detection limit.

Site is in GB groundwater classification area, but GA criteria applied because no public water supply available to site.

NE=not established.

All samples tested by EPA Method 8260.

Values in **BOLD** exceed limits of GWP criteria.

TPH by IR = EPA Method 418.1

Mr. Jon Goldman  
 Re: 7 Main Street, East Haddam, CT

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**TABLE 4: SUMMARY OF FOLLOW-UP SAMPLING**

	GPC (ug/L)	2 Norwich Road (ug/L)	4 Norwich Road (ug/L)	15 Main Street (ug/L)	15 Main Street (ug/L)	19 Main Street (ug/L)
Date Sampled		12/26/00	1/3/01	12/26/00	12/26/00	12/26/00
Lead	15	No Test	No Test	18 (no purge)	4 (5-min. purge)	No Test
VOCs	VARY	BDL	0.9 Bromofarm	No Test	No Test	BDL
SVOCs	VARY	0.4 Phthalates	Test Failed	No Test	No Test	0.7 Phthalates

Notes:  
 GPC = Groundwater Protection Criteria of DEP Remediation Standard Regulations.  
 BDL = Below detection limit.  
 Site is in GB groundwater classification area, but GA criteria applied because no public water supply available to site.  
 Values in **BOLD** exceed limits of GPC.  
 VOCs by EPA Method 524.2  
 SVOCs by EPA Method 525.2

### Conclusions and Recommendations

Based on the above lab test results, we do not believe that the contaminants detected in on-site monitor wells are affecting any on-site or off-site water supply well. The only water supply well apparently having a water-quality problem is the well at 15 Main Street, and that problem appears to be related to indoor plumbing rather than well contamination and is unrelated to on-site conditions. Based on the foregoing, it does not appear that contamination at the site represents a significant environmental hazard.

Nevertheless, East Haddam proposes to continue monitoring groundwater from monitor wells on the site to determine whether the detected compounds persist or are reduced through natural attenuation. The town will also conduct additional sampling at 15 Main Street to confirm whether the building's plumbing is the cause of the lead detected there.

A well has recently been located on Broom Street within 500 feet of the town site (see Figure 1). The town will sample this well and test for the presence of metals and extractable TPH (method commonly known as CT-ETPH).

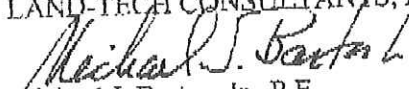
Following is an outline of the investigation planned, along with a preliminary implementation schedule.

Mr. Jon Goldman  
Re: 7 Main Street, East Haddam, CT

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SCHEDULE FOR FURTHER ACTION	
ITEM	COMPLETION
Purge and re-sample three existing monitor wells on town property. Test groundwater samples for metals and CT-ETPH.	Within 30 days of DEP approval
Sample well for house at end of Broom Road. Test for CT-ETPH and metals. Investigate lead contamination at 15 Main Street to determine whether source is related to indoor plumbing or groundwater.	Within 30 days of DEP approval
Survey locations and casing elevations of monitor wells and prepare map showing water table contours.	Within 30 days of DEP approval
Prepare and submit report of findings to DEP.	Within 60 days of DEP approval

Sincerely,  
LAND-TECH CONSULTANTS, INC.



Michael J. Bartos, Jr., P.E.  
Senior Associate

cc: James Ventres  
Andrew Lord, Esq.

encl: Figure 1

File: 7MainSigHaz02.doc

LAND-TECH CONSULTANTS, INC.



**Environmental Laboratories, Inc.**

587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040-0418  
Tel. (860) 645-1102 Fax (860) 645-0823



October 18, 2000

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

Attention: Mr. Michael Bartos, Jr.

Sample ID#: AC94251-60

This laboratory is in compliance with the QA/QC procedure outlined in EPA 600/4-79-019, Handbook for Analytical Quality in Water and Waste Water, March 1979, and SW846 QA/QC requirements of procedures used.

This report, starting with the cover sheet ending with the chain of custody, consists of 13 pages.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

*Phyllis Shiller*  
Phyllis Shiller  
Laboratory Director

NEIGHBORING DW WELLS  
TPH-12  
RCLA-8  
10/6/01

CT Lab Registration #PH-0618  
MA Lab Registration #MA-CT-007  
NY Lab Registration #11301  
RI Lab Registration #63  
NH Lab Registration #213693-A,B  
ME Lab Registration #CT-007



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O. Box 419, Manchester, CT 06040  
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

October 18, 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

10/06/00  
10/09/00

Time

17:13  
16:25

Laboratory Data

Client ID: 7 MAIN EH 9 MAIN

Phoenix I.D. AC94251

Parameter	Result	RL	Units	Date	Time	by	Reference
Arsenic (Furnace)	0.005	0.004	mg/L	10/10/00	8:13	R/T	206.2
Mercury	BDL	0.0002	mg/L	10/10/00	8:13	RS	7470/E245.1
Lead (Furnace)	0.002	0.001	mg/L	10/11/00	11:13	RS	7421/S3113B
Selenium	BDL	0.005	mg/L	10/11/00	8:41	RS	SW7740/200.9
Silver	BDL	0.001	mg/L	10/16/00	12:01	EK	6010/E200.7
Barium	0.009	0.01	mg/L	10/16/00	12:01	EK	6010/E200.7
Cadmium	BDL	0.005	mg/L	10/16/00	12:01	EK	6010/E200.7
Chromium	BDL	0.005	mg/L	10/16/00	12:01	EK	6010/E200.7
Mercury Digestion	Completed			10/10/00	7:07	DD	E245.1
Total Metals Digest	Completed			10/09/00	19:22	AB	SW846 - 3005
Tot.Petroleum HC	BDL	0.50	mg/L	10/13/00	17:13	ESG	E418.1

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  
October 18, 2000



**Environmental Laboratories, Inc.**

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

# Analysis Report

October 18, 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

10/06/00  
10/09/00

Time

17:13  
16:25

## Laboratory Data

Client ID: 7 MAIN EH 12 MAIN

Phoenix I.D. AC94252

Parameter	Result	RL	Units	Date	Time	by	Reference
Arsenic (Furnace)	0.004	0.004	mg/L	10/10/00	8:13	R/T	206.2
Mercury	BDL	0.0002	mg/L	10/10/00	8:13	RS	7470/E245.1
Lead (Furnace)	0.001	0.001	mg/L	10/11/00	11:13	RS	7421/S3113B
Selenium	BDL	0.005	mg/L	10/11/00	8:41	RS	SW7740/200.9
Silver	BDL	0.001	mg/L	10/16/00	12:01	EK	6010/E200.7
Barium	BDL	0.01	mg/L	10/16/00	12:01	EK	6010/E200.7
Cadmium	BDL	0.005	mg/L	10/16/00	12:01	EK	6010/E200.7
Chromium	BDL	0.005	mg/L	10/16/00	12:01	EK	6010/E200.7
Mercury Digestion	Completed			10/10/00	7:07	DD	E245.1
Total Metals Digest	Completed			10/09/00	19:22	AB	SW846 - 3005
Tot.Petroleum HC	BDL	0.50	mg/L	10/13/00	17:13	ESG	E418.1

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  
October 18, 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

October 18, 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

10/06/00  
10/09/00

### Time

17:13  
16:25

## Laboratory Data

Client ID: 7 MAIN EH 15 MAIN

Phoenix I.D. AC94253

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>Units</u>	<u>Date</u>	<u>Time</u>	<u>by</u>	<u>Reference</u>
Arsenic (Furnace)	BDL	0.004	mg/L	10/10/00	8:13	R/T	206.2
Mercury	BDL	0.0002	mg/L	10/10/00	8:13	RS	7470/E245.1
Lead (Furnace)	0.022	0.001	mg/L	10/11/00	11:13	RS	7421/S3113B
Selenium	BDL	0.005	mg/L	10/11/00	8:41	RS	SW7740/200.9
Silver	BDL	0.001	mg/L	10/16/00	12:01	EK	6010/E200.7
Barium	0.018	0.01	mg/L	10/16/00	12:01	EK	6010/E200.7
Cadmium	BDL	0.005	mg/L	10/16/00	12:01	EK	6010/E200.7
Chromium	BDL	0.005	mg/L	10/16/00	12:01	EK	6010/E200.7
Mercury Digestion	Completed			10/10/00	7:07	DD	E245.1
Total Metals Digest	Completed			10/09/00	19:22	AB	SW846 - 3005
Tot.Petroleum HC	BDL	0.50	mg/L	10/13/00	17:13	ESG	E418.1

### 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  
October 18, 2000



**Environmental Laboratories, Inc.**

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

# Analysis Report

October 18, 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

10/06/00  
10/09/00

Time

17:13  
16:25

## Laboratory Data

Client ID: 7 MAIN EH 17 MAIN

Phoenix I.D. AC94254

Parameter	Result	RL	Units	Date	Time	by	Reference
Arsenic (Furnace)	0.008	0.004	mg/L	10/10/00	8:13	R/T	206.2
Mercury	BDL	0.0002	mg/L	10/10/00	8:13	RS	7470/E245.1
Lead (Furnace)	0.003	0.001	mg/L	10/11/00	11:13	RS	7421/S3113B
Selenium	BDL	0.005	mg/L	10/11/00	8:41	RS	SW7740/200.9
Silver	BDL	0.001	mg/L	10/16/00	12:01	EK	6010/E200.7
Barium	BDL	0.01	mg/L	10/16/00	12:01	EK	6010/E200.7
Cadmium	BDL	0.005	mg/L	10/16/00	12:01	EK	6010/E200.7
Chromium	BDL	0.005	mg/L	10/16/00	12:01	EK	6010/E200.7
Mercury Digestion	Completed			10/10/00	7:07	DD	E245.1
Total Metals Digest	Completed			10/09/00	19:22	AB	SW846 - 3005
Tot.Petroleum HC	BDL	0.50	mg/L	10/13/00	17:13	ESG	E418.1

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  
October 18, 2000





Environmental Laboratories, Inc.

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

Analysis Report

October 18, 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

10/06/00  
10/09/00

Time

17:13  
16:25

Laboratory Data

Client ID: 7 MAIN EH 19 MAIN

Phoenix I.D. AC94255

Parameter	Result	RL	Units	Date	Time	by	Reference
Arsenic (Furnace)	BDL	0.004	mg/L	10/12/00	8:56	RS	206.2
Mercury	BDL	0.0002	mg/L	10/10/00	8:13	RS	7470/E245.1
Lead (Furnace)	0.002	0.001	mg/L	10/11/00	11:13	RS	7421/S3113B
Selenium	BDL	0.005	mg/L	10/11/00	8:41	RS	SW7740/200.9
Silver	BDL	0.001	mg/L	10/16/00	12:01	EK	6010/E200.7
Barium	BDL	0.01	mg/L	10/16/00	12:01	EK	6010/E200.7
Cadmium	BDL	0.005	mg/L	10/16/00	12:01	EK	6010/E200.7
Chromium	BDL	0.005	mg/L	10/16/00	12:01	EK	6010/E200.7
Mercury Digestion	Completed			10/10/00	7:07	DD	E245.1
Total Metals Digest	Completed			10/09/00	19:22	AB	SW846 - 3005
Tot.Petroleum HC	19	5.0	mg/L	10/13/00	17:13	ESG	E418.1

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  
October 18, 2000



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

**Analysis Report**  
 October 18, 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  
 10/06/00      17:13  
 10/09/00      16:25

Laboratory Data

Client ID: 7 MAIN EH OPERA HOUSE      Phoenix I.D. AC94256

Parameter	Result	RL	Units	Date	Time	by	Reference
Arsenic (Furnace)	BDL	0.004	mg/L	10/12/00	8:56	RS	206.2
Mercury	0.0002	0.0002	mg/L	10/10/00	8:13	RS	7470/E245.1
Lead (Furnace)	0.002	0.001	mg/L	10/11/00	11:13	RS	7421/S3113B
Selenium	BDL	0.005	mg/L	10/11/00	8:41	RS	SW7740/200.9
Silver	BDL	0.001	mg/L	10/16/00	12:01	EK	6010/E200.7
Barium	BDL	0.01	mg/L	10/16/00	12:01	EK	6010/E200.7
Cadmium	BDL	0.005	mg/L	10/16/00	12:01	EK	6010/E200.7
Chromium	BDL	0.005	mg/L	10/16/00	12:01	EK	6010/E200.7
Mercury Digestion	Completed			10/10/00	7:07	DD	E245.1
Total Metals Digest	Completed			10/09/00	19:22	AB	SW846 - 3005
Tot.Petroleum HC	14	2.5	mg/L	10/13/00	17:13	ESG	E418.1

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  
 October 18, 2000



Environmental Laboratories, Inc.

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

Analysis Report

October 18, 2000

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

<u>Sample Information</u>		<u>Custody Information</u>	<u>Date</u>	<u>Time</u>
Matrix:	WATER	Collected by:	10/06/00	17:13
Location Code:	LANDTECH	Received by:	10/09/00	16:25
Project Code:		Analyzed by:	see below	
P.O.#:				

Laboratory Data

Client ID: 7 MAIN EH WILLIAMS CHEVROLET Phoenix I.D. AC94257

Parameter	Result	RL	Units	Date	Time	by	Reference
Arsenic (Furnace)	BDL	0.004	mg/L	10/12/00	8:56	RS	206.2
Mercury	BDL	0.0002	mg/L	10/10/00	8:13	RS	7470/E245.1
Lead (Furnace)	0.003	0.001	mg/L	10/11/00	11:13	RS	7421/S3113B
Selenium	BDL	0.005	mg/L	10/11/00	8:41	RS	SW7740/200.9
Silver	BDL	0.001	mg/L	10/16/00	12:01	EK	6010/E200.7
Barium	0.03	0.01	mg/L	10/16/00	12:01	EK	6010/E200.7
Cadmium	BDL	0.005	mg/L	10/16/00	12:01	EK	6010/E200.7
Chromium	BDL	0.005	mg/L	10/16/00	12:01	EK	6010/E200.7
Mercury Digestion	Completed			10/10/00	7:07	DD	E245.1
Total Metals Digest	Completed			10/09/00	19:22	AB	SW846 - 3005
Tot.Petroleum HC	25	5.0	mg/L	10/13/00	17:13	ESG	E418.1

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  
October 18, 2000



Environmental Laboratories, Inc.

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

Analysis Report

October 18, 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

10/06/00  
10/09/00

Time

17:14  
16:25

Laboratory Data

Client ID: 7 MAIN EH 2 NORWICH

Phoenix I.D. AC94258

Parameter	Result	RL	Units	Date	Time	by	Reference
Arsenic (Furnace)	BDL	0.004	mg/L	10/12/00	8:56	RS	206.2
Mercury	BDL	0.0002	mg/L	10/10/00	8:13	RS	7470/E245.1
Lead (Furnace)	0.007	0.001	mg/L	10/11/00	11:13	RS	7421/S3113B
Selenium	BDL	0.005	mg/L	10/11/00	8:41	RS	SW7740/200.9
Silver	BDL	0.001	mg/L	10/16/00	12:01	EK	6010/E200.7
Barium	0.03	0.01	mg/L	10/16/00	12:01	EK	6010/E200.7
Cadmium	BDL	0.005	mg/L	10/16/00	12:01	EK	6010/E200.7
Chromium	BDL	0.005	mg/L	10/16/00	12:01	EK	6010/E200.7
Mercury Digestion	Completed			10/10/00	7:07	DD	E245.1
Total Metals Digest	Completed			10/09/00	19:22	AB	SW846 - 3005
Tot.Petroleum HC	31	5.0	mg/L	10/13/00	17:13	ESG	E418.1

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  
October 18, 2000



Environmental Laboratories, Inc.

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

# Analysis Report

October 18, 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

10/06/00  
10/09/00

### Time

17:14  
16:25

## Laboratory Data

Client ID: 7 MAIN EH 4 NORWICH

Phoenix I.D. AC94259

Parameter	Result	RL	Units	Date	Time	by	Reference
Arsenic (Furnace)	0.007	0.004	mg/L	10/12/00	8:56	RS	206.2
Mercury	BDL	0.0002	mg/L	10/10/00	8:13	RS	7470/E245.1
Lead (Furnace)	0.002	0.001	mg/L	10/11/00	11:13	RS	7421/S3113B
Selenium	BDL	0.005	mg/L	10/11/00	8:41	RS	SW7740/200.9
Silver	BDL	0.001	mg/L	10/16/00	12:01	EK	6010/E200.7
Barium	BDL	0.01	mg/L	10/16/00	12:01	EK	6010/E200.7
Cadmium	BDL	0.005	mg/L	10/16/00	12:01	EK	6010/E200.7
Chromium	BDL	0.005	mg/L	10/16/00	12:01	EK	6010/E200.7
Mercury Digestion	Completed			10/10/00	7:07	DD	E245.1
Total Metals Digest	Completed			10/09/00	19:22	AB	SW846 - 3005
Tot.Petroleum HC	30	5.0	mg/L	10/13/00	17:13	ESG	E418.1

### 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  
October 18, 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

AC94260

October 18, 2000

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Sample ID AC94260

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<i>Analysis:</i>	AA Metals Analysis QC			AC94260
QC Source: ERA 9989 NY 2506	Blank PPM	QC Check ( % Rec.)	QC Spike ( % Rec.)	QC Sample Replicate (% change)
Analyte	-----			
AS Arsenic	<0.005	103	91	NC
Hg Mercury	<0.0005	98	98	NC
Pb Lead	<0.001	105	102	NC
Sb Antimony	<0.005	107	98	NC
Se Selenium	<0.005	101	99	NC
Tl Thallium	<0.005	106	89	NC
Cd Cadmium	<0.0002	110	97	0.6
Ag Silver	<0.0002	111	110	2.7

Analysis: ICP Metals Analysis QC

AC94260

QC Source: ERA 9989                      QC Check                      QC Spike                      QC Sample  
 MIN QCI 702                      Blank                      Sample                      Sample                      Replicate  
 ICP 0900    (% Rec.)                      (% Rec.)                      (% change)  
 Analyte

Analyte	Blank	QC Check Sample (% Rec.)	QC Spike Sample (% Rec.)	QC Sample Replicate (% change)
Ag Silver	<0.01	102	100	NC
Al Aluminum	<0.05	97	85	NC
As Arsenic	<0.05	100	95	NC
B Boron	<0.10	112	110	NC
Ba Barium	<0.01	102	95	NC
Be Beryllium	<0.01	102	105	NC
Ca Calcium	<0.30	103	80	1.1
Cd Cadmium	<0.01	104	95	NC
Co Cobalt	<0.01	103	99	NC
Cr Chromium	<0.01	103	101	NC
Cu Copper	<0.01	101	96	0.5
Fe Iron	<0.05	101	95	2.3
K Potassium	<0.30	100	112	0.9
Mg Magnesium	<0.02	103	113	1.4
Mn Manganese	<0.01	104	83	2.5
Mo Molybdenum	<0.05	96	86	NC
Na Sodium	<0.50	99	106	0.6
Ni Nickel	<0.01	103	106	NC
P Phosphorus	<0.20	102	91	0.7
Pb Lead	<0.05	103	89	NC
Se Selenium	<0.05	108	97	NC
Sn Tin	<0.25	101	111	NC
Ti Titanium	<0.01	103	104	NC
V Vanadium	<0.01	85	107	NC
Zn Zinc	<0.01	107	100	0.0

Analysis: Total Petroleum HC/IR Q

AC94260

QC BLANK: <0.50                      UNITS: mg/L  
 QC CHECK SAMPLE % RECOVERY: 104%                      QC SOURCE: IN HOUSE  
 SP SAMPLE SPIKE % RECOVERY: 103%                      SPIKE SAMPLE: AC94252  
 QC SAMPLE REPLICATE % CHANGE: N/C                      REPLICATED SAMPLE: AC94251

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



Phyllis Shiller  
 Laboratory Director

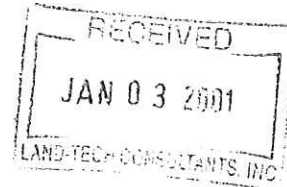






**Environmental Laboratories, Inc.**

587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040-0418  
Tel. (860) 645-1102 Fax (860) 645-0823



December 30, 2000

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

Attention: Mr. Michael Bartos, Jr.

Sample ID#: AD07105-09

This laboratory is in compliance with the QA/QC procedure outlined in EPA 600/4-79-019, Handbook for Analytical Quality in Water and Waste Water, March 1979, and SW846 QA/QC requirements of procedures used.

This report, starting with the cover sheet ending with the chain of custody, consists of 12 pages.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller  
Laboratory Director

524.2 # Pb  
12/26/00  
2 NORWICH  
15 MAINE  
19 MAINE

CT Lab Registration #PH-0618  
MA Lab Registration #MA-CT-007  
NY Lab Registration #11301  
RI Lab Registration #63  
NH Lab Registration #213693-A,B  
ME Lab Registration #CT-007



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O. Box 419, Manchester, CT 06040  
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report  
December 30, 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: RUSH24HR  
P.O.#:

Custody Information

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

Date Time

12/26/00 0:00  
12/26/00 15:15

Laboratory Data

Client ID: 7 MAIN EH 2 NORWICH

Phoenix I.D. AD07105

Parameter	Result	RL	Units	Date	Time by	Reference
<b>Volatiles</b>						
1,1,1,2-Tetrachloroethane	ND	0.5	ug/L	12/27/00	14:50	KCA 524.2
1,1,1-Trichloroethane	ND	0.5	ug/L	12/27/00	14:50	KCA 524.2
1,1,2,2-Tetrachloroethane	ND	0.5	ug/L	12/27/00	14:50	KCA 524.2
1,1,2-Trichloroethane	ND	0.5	ug/L	12/27/00	14:50	KCA 524.2
1,1-Dichlorethene	ND	0.5	ug/L	12/27/00	14:50	KCA 524.2
1,1-Dichloroethane	ND	0.5	ug/L	12/27/00	14:50	KCA 524.2
1,1-Dichloropropene	ND	0.5	ug/L	12/27/00	14:50	KCA 524.2
1,2,3-Trichlorobenzene	ND	0.5	ug/L	12/27/00	14:50	KCA 524.2
1,2,3-Trichloropropane	ND	0.5	ug/L	12/27/00	14:50	KCA 524.2
1,2,4-Trichlorobenzene	ND	0.5	ug/L	12/27/00	14:50	KCA 524.2
1,2,4-Trimethylbenzene	ND	0.5	ug/L	12/27/00	14:50	KCA 524.2
1,2-Dibromo-3-chloropropane	ND	0.5	ug/L	12/27/00	14:50	KCA 524.2
1,2-Dibromoethane	ND	0.5	ug/L	12/27/00	14:50	KCA 524.2
1,2-Dichlorobenzene	ND	0.5	ug/L	12/27/00	14:50	KCA 524.2
1,2-Dichloroethane	ND	0.5	ug/L	12/27/00	14:50	KCA 524.2
1,2-Dichloropropane	ND	0.5	ug/L	12/27/00	14:50	KCA 524.2
1,3,5-Trimethylbenzene	ND	0.5	ug/L	12/27/00	14:50	KCA 524.2
1,3-Dichlorobenzene	ND	0.5	ug/L	12/27/00	14:50	KCA 524.2
1,3-Dichloropropane	ND	0.5	ug/L	12/27/00	14:50	KCA 524.2

Client ID: 7 MAIN EH 2 NORWICH

Phoenix I.D. AD07105

Parameter	Result	RL	Units	Date	Time	by	Reference
1,4-Dichlorobenzene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
2,2-Dichloropropane	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
2-Butanone	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
2-Chlorotoluene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
4-Chlorotoluene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
4-Isopropyltoluene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
Benzene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
Bromobenzene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
Bromochloromethane	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
Bromodichloromethane	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
Bromoform	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
Bromomethane	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
Carbon Tetrachloride	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
Chlorobenzene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
Chloroethane	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
Chloroform	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
Chloromethane	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
cis-1,2-Dichloroethene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
cis-1,3-Dichloropropene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
Dibromochloromethane	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
Dibromomethane	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
Dichlorodifluoromethane	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
Ethylbenzene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
Hexachlorobutadiene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
Isopropylbenzene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
Methyl Tert Butyl Ether	ND	1.0	ug/L	12/27/00	14:50	KCA	524.2
Methylene Chloride	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
n-Butylbenzene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
Napthalene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
o-Xylene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
p- and m- Xylene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
Propylbenzene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
sec-Butylbenzene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
Styrene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
tert-Butylbenzene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
Tetrachloroethylene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2

Client ID: 7 MAIN EH 2 NORWICH

Phoenix I.D. AD07105

Parameter	Result	RL	Units	Date	Time	by	Reference
Toluene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
Total Trihalomethanes (TTHM)	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
trans-1,2-Dichloroethene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
trans-1,3-Dichloropropene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
Trichloroethylene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
Trichlorofluoromethane	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
Vinyl Chloride	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
%4-Bromofluorobenzene (Surrogate)	79%		%	12/27/00	14:50	KCA	524.2

**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  
December 30, 2000



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O. Box 419, Manchester, CT 06040  
Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report**  
December 30, 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: RUSH24HR  
P.O.#:

Custody Information

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

Date Time  
12/26/00 0:00  
12/26/00 15:15

Laboratory Data

Client ID: 7 MAIN EH 15 MAIN-0 Phoenix I.D. AD07106

Parameter	Result	RL	Units	Date	Time	by	Reference
Lead (Furnace)	0.018	0.001	mg/L	12/27/00	11:26	RS	7421/S3113B
Total Metals Digest	Completed			12/27/00	20:31	AB	SW846 - 3005

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  
December 30, 2000



Environmental Laboratories, Inc.

507 East Middle Turnpike, P.O. Box 419, Manchester, CT 06040  
Tel. (860) 645-1102 Fax (860) 645-0823

**Analysis Report**  
December 30, 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: RUSH24HR  
P.O.#:

Custody Information

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

Date Time  
12/26/00 0:00  
12/26/00 15:15

Laboratory Data

Client ID: 7 MAIN EH 19 MAIN

Phoenix I.D. AD07107

Parameter	Result	RL	Units	Date	Time	by	Reference
<u>Volatiles</u>							
1,1,1,2-Tetrachloroethane	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
1,1,1-Trichloroethane	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
1,1,2,2-Tetrachloroethane	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
1,1,2-Trichloroethane	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
1,1-Dichloroethene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
1,1-Dichloroethane	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
1,1-Dichloropropene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
1,2,3-Trichlorobenzene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
1,2,3-Trichloropropane	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
1,2,4-Trichlorobenzene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
1,2,4-Trimethylbenzene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
1,2-Dibromo-3-chloropropane	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
1,2-Dibromoethane	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
1,2-Dichlorobenzene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
1,2-Dichloroethane	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
1,2-Dichloropropane	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
1,3,5-Trimethylbenzene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
1,3-Dichlorobenzene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
1,3-Dichloropropane	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2

Client ID: 7 MAIN EH 19 MAIN

Phoenix I.D. AD07107

Parameter	Result	RL	Units	Date	Time	by	Reference
1,4-Dichlorobenzene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
2,2-Dichloropropane	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
2-Butanone	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
2-Chlorotoluene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
4-Chlorotoluene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
4-Isopropyltoluene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
Benzene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
Bromobenzene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
Bromochloromethane	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
Bromodichloromethane	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
Bromoform	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
Bromomethane	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
Carbon Tetrachloride	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
Chlorobenzene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
Chloroethane	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
Chloroform	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
Chloromethane	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
cis-1,2-Dichloroethene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
cis-1,3-Dichloropropene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
Dibromochloromethane	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
Dibromomethane	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
Dichlorodifluoromethane	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
Ethylbenzene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
Hexachlorobutadiene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
Isopropylbenzene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
Methyl Tert Butyl Ether	ND	1.0	ug/L	12/27/00	14:50	KCA	524.2
Methylene Chloride	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
n-Butylbenzene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
Napthalene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
o-Xylene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
p- and m- Xylene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
Propylbenzene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
sec-Butylbenzene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
Styrene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
tert-Butylbenzene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
Tetrachloroethylene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2

Client ID: 7 MAIN EH 19 MAIN

Phoenix I.D. AD07107

Parameter	Result	RL	Units	Date	Time	by	Reference
Toluene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
Total Trihalomethanes (TTHM)	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
trans-1,2-Dichloroethene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
trans-1,3-Dichloropropene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
Trichloroethylene	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
Trichlorofluoromethane	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
Vinyl Chloride	ND	0.5	ug/L	12/27/00	14:50	KCA	524.2
%4-Bromofluorobenzene (Surrogate)	79%			% 12/27/00	14:50	KCA	524.2

**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  
December 30, 2000





Environmental Laboratories, Inc.

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

# Analysis Report

December 30, 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: RUSH24HR  
P.O.#:

### Custody Information

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

Date Time  
12/26/00 0:00  
12/26/00 15:15

### Laboratory Data

Client ID: 7 MAIN EH 15 MAIN-5 Phoenix I.D. AD07108

Parameter	Result	RL	Units	Date	Time	by	Reference
Lead (Furnace)	0.004	0.001	mg/L	12/27/00	11:26	RS	7421/S3113B
Total Metals Digest	Completed			12/27/00	20:31	AB	SW846 - 3005

### 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  
December 30, 2000



Environmental Laboratories, Inc.

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

# QC Report

AD07109

December 30, 2000

Sample ID AD07109

Analysis: AA Metals Analysis QC		AD07109		
QC Source: ERA 99101 NY 2506	Blank PPM	QC Check ( % Rec.)	QC Spike ( % Rec.)	QC Sample Replicate (% change)
Analyte				
AS Arsenic	<0.005	100	113	NC
Hg Mercury	<0.0005	102	92	NC
Pb Lead	<0.001	106	96	NC
Sb Antimony	<0.005	101	101	NC
Se Selenium	<0.005	99	104	NC
Tl Thallium	<0.005	105	90	NC
Cd Cadmium	<0.0002	100	96	NC
AG Silver	<0.0002	96	104	NC

Analysis: Volatiles (MS) Analysis QC		AD07109	
Analyte	Matrix Spike Dup	Matrix Spike (%D) (Rec)	Relative %Diff (%Rec)
Benzene	120%	110%	9%
Chlorobenzene	140%	119%	16%
1,1-Dichloroethylene	130%	120%	8%
Toluene	108%	108%	11%
Trichloroethylene	120%	100%	18%

No analytes were detected in the applicable method blanks above the stated detection limits with the following exceptions:

(NONE)

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

Client Services (860) 645-8726

DATE RCVD: \_\_\_\_\_

Customer: JAMES VENTRIES Project: T.M. MAINEH  
TOWN OF EAST HADDAM  
 Address: MUNICIPAL OFFICE BUILDING Report To: M. PACIOS (LAND-TECH)  
EAST HADDAM CT 06423 Invoice To: JAMES VENTRIES

Project P.O.: \_\_\_\_\_  
 Phone #: (203) 264-8300  
 Fax #: (203) 264-5995

Client Sample - Identification		Analysis Requested															
Item #	Customer's Sample Ident	Sample Matrix	Date	Time	Analysis Requested												
					VOXALS	STYANOV	INNOV	CL + HSO	TECH + INNOV	REGENT BODIE	PHOENIX SAMPLE #						
X 1	Z NOWRICK	DW	12/26/99	11:30	X											07105	
2	15 MAIN-O	DW			X											07106	
3	19 MAIN	DW			X											07107	
4	15 MAIN-5	DWJ			X											07108	
TOTAL LEAD																	
																	07109

Item # 1-4 Requisitioned by: B Pacios Accepted by: \_\_\_\_\_ Date: 12/26/99 Time: 15:15

Comments: PLEASE PROVIDE 1-DAY TURN-AROUND + FAX REPORTS TO 203.264.5995

LOC

Standard lab turnaround is 10 working days. Accelerated turnarounds are always available. Check with office on prevailing surcharge. ACCELERATED TURN-AROUND TIME REQUESTED: X 1 2 3 4 5 working days.



STATE OF CONNECTICUT

Department of Public Health
Division of Laboratory Services
10 Clinton St.
P.O. Box 1689
Hartford, CT 06144
TELEPHONE: (860) 509-8500

Table with columns: I.D., ACCESSION NO., ACCOUNT NO., AGE, S, PAGE. Values: NR:4NORWICH, 16126867, 506423, 0, , 1

INFORMATION

041EAST HADDAM
EAST HADDAM
4 NORWICH RD
EAST HADDAM CT

EAST HADDAM TOWN SANITARIAN
THOMAS ARMENTANO R.L.S
TOWN HALL RT.82
EAST HADDAM CT 06423

Table with columns: COLLECTED, RECEIVED, REPORTED. Values: 12/26/00 00:00, 01/04/01 12:30, 01/23/01 16:31

REPORT FINAL REPORT COMMENT

TEST(S) RESULT(S)

SAMPLING POINT: WELL
COLLECTOR: LAND TECH INC TITLE: CONSULTANTS
PRIVATE WELL TREATMENT:

DATE EXTRACTED 1/08/01
DATE ANALYZED 1/12/01

ANALYTICAL METHOD: EPA METHOD 525.2
DETERMINATION OF ORGANIC COMPOUNDS IN DRINKING
WATER BY LIQUID-SOLID EXTRACTION AND CAPILLARY
COLUMN GAS CHROMATOGRAPHY / MASS SPECTROMETRY

RESULTS EXTRACTION/ANALYSIS FAILED: RECOVERY OF INTERNAL
STANDARDS WAS NOT WITHIN ACCEPTABLE LIMITS FOR
THIS METHOD. RESAMPLING IS NECESSARY.

RAM
1/24/01

JAN 30 2001

\*\* END OF REPORT \*\*



STATE OF CONNECTICUT

Department of Public Health
Division of Laboratory Services
10 Clinton St.
P.O. Box 1689
Hartford, CT 06144
TELEPHONE: (860) 509-8500

Table with columns: I.D., ACCESSION NO., ACCOUNT NO., AGE, S, PAGE. Values: NR 2 NORWICH, 16126869, 506423, 0, , 1

INFORMATION

041 EAST HAMPTON
EAST HADDAM
2 NORWICH RD.
EAST HAMPTON CT

EAST HADDAM TOWN SANITARIAN
THOMAS ARMENTANO R.S
TOWN HALL RT. 92
EAST HADDAM CT 06423

Table with columns: COLLECTED, RECEIVED, REPORTED. Values: 12/26/00 00:00, 01/04/01 12:30, 01/23/01 16:31

REPORT FINAL REPORT COMMENT

TEST(S) RESULT(S)

SAMPLING POINT: WELL
COLLECTOR: LAND TECH INC. TITLE: CONSULTANTS
PRIVATE WELL
DATE EXTRACTED 1/09/01
DATE ANALYZED 1/12/01

ANALYTICAL METHOD: EPA METHOD 825.2
DETERMINATION OF ORGANIC COMPOUNDS IN DRINKING
WATER BY LIQUID-SOLID EXTRACTION AND CAPILLARY
COLUMN GAS CHROMATOGRAPHY / MASS SPECTROMETRY

Table with columns: SI, S, COMPOUND, QUANTITY (PPB), MDL (PPB). Rows for Benzo(a) Pyrene, Bis (2-Ethylhexyl) Adipate, Bis (2-Ethylhexyl) Phthalate.

Adipates and Phthalates are frequent field and laboratory
contaminants. High values for these compounds can occur
at random. In some cases resampling may be required.

ND - None Detected

It should be noted that an MDL calculation represents an
ideal situation and complex matrices may affect these
values.

Other analytes available on request.

RAM
1/24/01

\*\* END OF REPORT \*\*



STATE OF CONNECTICUT

Department of Public Health
Division of Laboratory Services
10 Clinton St.
P.O. Box 1689
Hartford, CT 06144
TELEPHONE: (860) 509-8500

Table with columns: I.D., ACCESSION NO., ACCOUNT NO., AGE, S, PAGE. Values: NR:19MAIN, 16126870, 506423, 0, 1

INFORMATION
041EAST HADDAM
EAST HADDAM
19 MAIN ST
EAST HADDAM CT

EAST HADDAM TOWN SANITARIAN
THOMAS ARMENTANO R.S
TOWN HALL RT.92
EAST HADDAM CT 06423

Table with columns: COLLECTED, RECEIVED, REPORTED. Values: 12/26/00 09:00, 01/04/01 12:30, 01/23/01 08:07

REPORT FINAL REPORT COMMENT

TEST(S) RESULT(S)

SAMPLING POINT: WELL
COLLECTOR: LAND TECH INC TITLE: CONSULTANT
PRIVATE WELL TREATMENT:
1/08/01
1/12/01

TE EXTRACTED
TE ANALYZED

ANALYTICAL METHOD: EPA METHOD 816.2
DETERMINATION OF ORGANIC COMPOUNDS IN DRINKING
WATER BY LIQUID-SOLID EXTRACTION AND CAPILLARY
COLUMN GAS CHROMATOGRAPHY / MASS SPECTROMETRY

Table with columns: SI TS, COMPOUND, QUANTITY (PPB), MDL (PPB). Rows: Benzo(A) Pyrene, Bis (2-Ethylhexyl) Adipate, Bis (2-Ethylhexyl) Phthalate

Adipates and Phthalates are frequent field and laboratory
contaminants. High values for these compounds can occur
at random. In some cases resampling may be required.

ND - None Detected

It should be noted that an MDL calculation represents an
ideal situation and complex matrices may affect these
values.

Other analytes available on request.

NOTE: INTERNAL STANDARD RECOVERIES WERE SLIGHTLY BELOW
ACCEPTABLE LIMITS FOR THIS METHOD.

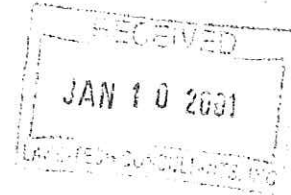
RAM
1/24/01

\*\* END OF REPORT \*\*



**Environmental Laboratories, Inc.**

587 East Middle Turnpike, P.O. Box 418, Manchester, CT 06040-0418  
Tel. (860) 645-1102 Fax (860) 645-0823



January 09, 2001

**Land-Tech Consultants, Inc.**  
205 Playhouse Corner  
Southbury CT 06488

Attention: Mr. Michael Bartos, Jr.

Sample ID#: AD08340-41

This laboratory is in compliance with the QA/QC procedure outlined in EPA 600/4-79-019, Handbook for Analytical Quality in Water and Waste Water, March 1979, and SW846 QA/QC requirements of procedures used.

This report, starting with the cover sheet ending with the chain of custody, consists of  6  pages.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

  
Phyllis Shiller  
Laboratory Director

524.2 @ 4 No. 10/11  
SAMPLED 1.3.01

CT Lab Registration #PH-0618  
MA Lab Registration #MA-CT-007  
NY Lab Registration #11301  
RI Lab Registration #63  
NH Lab Registration #213693-A,B  
ME Lab Registration #CT-007





Environmental Laboratories, Inc.

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# Analysis Report

January 09, 2001

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  
01/03/01 0:00  
01/04/01 11:40

## Laboratory Data

Client ID: EAST HADDAM JOB# E00199-04

Phoenix I.D. AD08340

Parameter	Result	RL	Units	Date	Time	by	Reference
<b>Volatiles</b>							
1,1,1,2-Tetrachloroethane	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
1,1,1-Trichloroethane	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
1,1,2,2-Tetrachloroethane	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
1,1,2-Trichloroethane	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
1,1-Dichloroethene	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
1,1-Dichloroethane	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
1,1-Dichloropropene	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
1,2,3-Trichlorobenzene	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
1,2,3-Trichloropropane	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
1,2,4-Trichlorobenzene	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
1,2,4-Trimethylbenzene	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
1,2-Dibromo-3-chloropropane	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
1,2-Dibromoethane	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
1,2-Dichlorobenzene	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
1,2-Dichloroethane	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
1,2-Dichloropropane	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
1,3,5-Trimethylbenzene	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
1,3-Dichlorobenzene	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
1,3-Dichloropropane	ND	0.5	ug/L	01/07/01	8:56	RM	524.2

Parameter	Result	RL	Units	Date	Time	by	Reference
1,4-Dichlorobenzene	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
2,2-Dichloropropane	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
2-Butanone	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
2-Chlorotoluene	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
4-Chlorotoluene	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
4-Isopropyltoluene	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
Benzene	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
Bromobenzene	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
Bromochloromethane	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
Bromodichloromethane	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
Bromoform	0.9	0.5	ug/L	01/07/01	8:56	RM	524.2
Bromomethane	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
Carbon Tetrachloride	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
Chlorobenzene	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
Chloroethane	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
Chloroform	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
Chloromethane	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
cis-1,2-Dichloroethene	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
cis-1,3-Dichloropropene	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
Dibromochloromethane	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
Dibromomethane	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
Dichlorodifluoromethane	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
Ethylbenzene	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
Hexachlorobutadiene	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
Isopropylbenzene	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
Methyl Tert Butyl Ether	ND	1.0	ug/L	01/07/01	8:56	RM	524.2
Methylene Chloride	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
n-Butylbenzene	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
Napthalene	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
o-Xylene	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
p- and m- Xylene	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
Propylbenzene	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
sec-Butylbenzene	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
Styrene	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
tert-Butylbenzene	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
Tetrachloroethylene	ND	0.5	ug/L	01/07/01	8:56	RM	524.2

Client ID: EAST HADDAM JOB# E00199-04

Phoenix I.D. AD08340

Parameter	Result	RL	Units	Date	Time	by	Reference
Toluene	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
Total Trihalomethanes (TTHM)	0.9	0.5	ug/L	01/07/01	8:56	RM	524.2
trans-1,2-Dichloroethene	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
trans-1,3-Dichloropropene	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
Trichloroethylene	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
Trichlorofluoromethane	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
Vinyl Chloride	ND	0.5	ug/L	01/07/01	8:56	RM	524.2
%4-Bromofluorobenzene (Surrogate)	74			% 01/07/01	8:56	RM	524.2

**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  
January 09, 2001



Environmental Laboratories, Inc.

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

## QC Report

AD08341

January 09, 2001

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Sample ID AD08341

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Analysis: Volatiles (MS) Analysis QC

AD08341

Analyte	Matrix Spike (%Rec)	Matrix Spike Dup (%Rec)	Relative %Diff (%D)
Benzene	100%	97%	3%
Chlorobenzene	112%	112%	0%
1,1-Dichloroethylene	102%	97%	5%
Toluene	106%	102%	4%
Trichloroethylene	98%	92%	6%

No analytes were detected in the applicable method blanks above the stated detection limits with the following exceptions:

(NONE)

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

Phyllis Shiller  
Laboratory Director



Environmental Laboratories, Inc.

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Tel. (860) 645-1102 Fax (860) 645-0823

# QC Report

AD08341

January 09, 2001

Sample ID AD08341

Analysis: Volatiles (MS) Analysis QC

AD08341

Analyte	Matrix Spike (%Rec)	Matrix Spike Dup (%Rec)	Relative %Diff (%D)
Benzene	100%	97%	3%
Chlorobenzene	112%	112%	0%
1,1-Dichloroethylene	102%	97%	5%
Toluene	106%	102%	4%
Trichloroethylene	98%	92%	6%

No analytes were detected in the applicable method blanks above the stated detection limits with the following exceptions:

(NONE)

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

Phyllis Shiller  
Laboratory Director

letter of transmittal



LAND-TECH CONSULTANTS, INC.  
ENVIRONMENTAL SCIENTISTS AND ENGINEERS  
205 PLAYHOUSE CORNER/SOUTHBURY, CT 06488  
TEL: 203-264-8300 FAX: 203-264-5995

DATE: 1/3/01  
JOB NO.: E00199-04  
ATTENTION: Bobbi P.  
RE: East Haddam

TO: Phoenix Environmental Laboratories, Inc.  
587 East Middle Turnpike  
Manchester, CT 06040

WE ARE SENDING YOU  Attached  Under separate cover via overnight the following items:

Shop Drawings  Prints  Plans  Copy of Letter

COPIES	DATE	DESCRIPTION
2	10/28/00	40-mL glass vials of drinking water identified as sample "4 NORWICH"

THESE ARE TRANSMITTED as checked below:

For approval  For your use  As requested  
 For review and comment  Prints returned after loan to us

REMARKS:

Please test by Method 524.2

AD 08340  
08341 QC

COPY TO:

SIGNED Michael J. Bartos, Jr.  
Michael J. Bartos, Jr., PE

2 VOC vials

1°C In water  
1-4-01 11:40

Appendix G

1991 DEP Spill Report

Common Identifier: 89

CONNECTICUT DEPARTMENT OF ENVIRONMENTAL PROTECTION  
BUREAU OF WASTE MANAGEMENT, OIL AND CHEMICAL SPILL RESPONSE DIVISION  
EMERGENCY INCIDENT REPORT FORM

CASE NO. 89 ASSIGNED TO: 934

DATE: 10/11/99 TIME: (Military) 15:30 TOWN: EAST HADDAM

REPORTED BY: FRANK BARTOLOMED TELEPHONE: Business ( ) 866.4630 Home ( )

Representing: CT DEP

Street: 1820 TRINITY Town: Hartford State: Zip Code:

INCIDENT LOCATION: E. HADDAM TOWN HALL, RT 87, E. HADDAM, NEAR GOODSPEED  
# Street: TOWN GARAGE Pole No.:

TYPE OF INCIDENT: LONGITUDE READING: LATITUDE READING: G.I.S.:

Petroleum  Chemical  Dielect  Gaseous  Hazardous Waste  Sewage related  Biomedical  Algae  Other

DISCHARGE SUBSTANCE: Gasoline

QUANTITY: 1820 gallon(s) [ ] cubic yards [ ] cubic feet [ ] lb(s) [ ] concentration [ ] drum(s)

If this is a chemical release does this incident constitute a SARA 304 Release?  Yes  No  
SARA Title III: Describe Protective actions and provide medical information:

DATE OF SPILL: | | | | | Date | | | | | Year |  unknown  on-going TIME OF SPILL: (Military Time)

HAS THE RELEASE BEEN TERMINATED?  Yes  No  on-going  unknown HAS THE RELEASE BEEN CONTAINED?  Yes  No  no decision

Misc. Info: TANK B-1 ON SKETCH LEAKED (TANK IN FRONT) ABANDONED IMPROPERLY - JUST LEFT IN GROUND & REPLACED WITH ABOVE GROUND TANK

WATER BODY: GROUND WATER  River  L.I.S.  Tributary  Catch Basin/Storm drain  Pond

MEDIA:  air  surface water  ground water  ground surface  inside building  other

TOTAL IN WATER: 1820 gallons TOTAL RECOVERED FROM WATER: POLLUTER NAME: TOWN OF E. HADDAM

Polluter Mailing Address Phone

POLLUTER ACCEPTS FINANCIAL RESPONSIBILITY?  Yes  No  unknown  polluter unknown

CLEAN-UP ACTIONS BEING TAKEN:

AGENCIES NOTIFIED:  EPA-LEXINGTON  U.S. COAST GUARD  LOCAL FIRE MARSHAL  LOCAL FIRE  LOCAL POLICE  Other

AQUACULTURE  STATE D.O.H.S.  DEP/EO/WATER  DEP/EO/AIR  DEP/EO/WASTE  WEED/HW  WEED/SW  PMD  UST  SRCD  DEP/AIR

DATE OF NOTIFICATION: | | | | | Date | | | | | Year | TIME OF NOTIFICATION: (Military Time)

DISCHARGE CLASS: 1  Unknown 2  Industrial 3  Marine Terminal 4  Inland Terminal 5  Transportation 6  Governmental 7  Private 8  Vessel 9  Commercial 10  Utility 11  Natural 12  Other

CAUSE OF INCIDENT: 1  Unknown 2  Hose Failure 3  Transfer Line Failure 4  Inground Tank Failure 5  Above Ground Tank Failure 6  Saddle Tank Failure 7  Cargo Tank Failure 8  Fuel Tank Failure 9  Hull Fracture 10  Overfill 11  Container Failure 12  Valve Failure 13  Fire 14  Power Failure 15  Pump Failure 16  Pumping 17  Dumping 18  Illegal Discharge 19  Sinking 20  Seepage 21  Pumping Bilge 22  Open Hatch 23  Vandalism 24  Blow Back 25  Road Oiling/Repair 26  Motor Vehicle accident 27  Trans./Capacitor 28  Natural 29  Leaking UST Report 30  Other:



**CORRECTIVE ACTIONS TAKEN:**

- 1  None
- 2  None required
- 3  Unknown
- 4  Removed
- 5  Contained/Remove
- 6  Contracted
- 7  Test Wells
- 8  Dissipated
- 9  Evaporated
- 10  Sanded
- 11  Foamed
- 12  Referred
- 13  Cleaned
- 14  Washed Down
- 15  Pumped Out
- 16  Neutralized
- 17  Recovery System
- 18  Repaired Line
- 19  Repaired Tank
- 20  Dispersed
- 21  Removed Tank
- 22  Soil Removal
- 23  UST Enforcement
- 24  Other: \_\_\_\_\_

CLEAN-UP CONTRACTOR(S): \_\_\_\_\_ DID DEP HIRE CLEAN-UP CONTRACTOR(S):  Yes  No DATE: \_\_\_\_\_  
 Requested: \_\_\_\_\_ Arrived: \_\_\_\_\_ (Military Time)

RECEIVED BY: 902 INSPECTOR ASSIGNED: 934  
 DATE ASSIGNED: 01/11/91 TIME ASSIGNED: 1630  
Month Day Year (Military Time)

ESTIMATED TIME OF ARRIVAL: \_\_\_\_\_ STATUS:  Open  Closed  Monitored

**LEAKING UNDERGROUND STORAGE TANK REPORT SECTION (for administrative use only)**

Tank Sizes	Leak	Type of Product	Emergency	Overfill	Removal	Tank	Piping	Remediation	Complete	Referral
	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**SUPPLEMENTAL INFORMATION**

- 1. If this is a chemical release and was not reported by 911 emergency response system, does this release require a Notification be sent per Public Act 90-278?  Yes  No
  - 2. Status of notification  sent 3. Is this an 1136 case?  Yes  No 4. 1136 Case No. \_\_\_\_\_
  - 5. Is this a Federal 311K case?  Yes  No 6. PIN \_\_\_\_\_
  - 7. Has the Cost Recovery Expenditure Summary been initiated?  Yes  No 8. Incident Code
- PROPERTY OWNER:  State  Municipal  Corporation  Private  Federal  Unknown

POLLUTER:  Truck  Trailer  Owner \_\_\_\_\_  Operator \_\_\_\_\_

VEHICLE IDENTIFICATION: MAKE \_\_\_\_\_ MODEL \_\_\_\_\_ REGISTRATION \_\_\_\_\_ OWNER OF VEHICLE \_\_\_\_\_

ADDITIONAL INFORMATION: Tanks abandoned because they are over 20  
years of age. First Selectman attempting to obtain  
funds to remove tanks. Job referred to UST  
1-11-91 because tanks are improperly  
abandoned.

HAS THIS REPORT BEEN UPDATED WITH THE INSPECTOR'S REPORT?  No  Yes Date: \_\_\_\_\_

INTERDEPARTMENTAL  
MESSAGE

STO-201 REV 7 86  
(Stock No. 6938-051-01)

STATE OF CONNECTICUT

Obtain "STATE EMPLOYEE SUGGESTION" forms from, and send your ideas to: Employee's Suggestion Awards Program, 165 Capitol Avenue Hartford, Ct, 06106.

To	NAME, TITLE James Gilbert	DATE 1-11-91
	AGENCY, ADDRESS WST	
From	NAME, TITLE MATT WILLIAMSON	TELEPHONE
	AGENCY, ADDRESS	

Subject: East Haddam Highway (Town) Garage  
RT 82  
East Haddam.

On 1-10-91 I conducted an investigation on the above property. An ANONYMOUS complaint noted improperly abandoned (leaking) underground storage tanks. I met with John Blaschik Jr. the town's first Selectman, who informed me the town abandoned 3 UST's on the property approx. 7-89. Eventually these tanks are to be removed as the town is moving the Garage to a new location. These tanks are long past the 90 day out of service and I feel must be removed immediately. I feel a NO.V. from the UST Program may push the town into performing this.

Direct Nav. to John Blaschik Jr  
Town office Bldg.  
East Haddam, CT

Thanks  
Matt Williamson