

AMORY ENGINEERS, P.C.

WATER WORKS • WATER RESOURCES • CIVIL WORKS

25 DEPOT STREET, P.O. BOX 1768
DUXBURY, MASSACHUSETTS 02331-1768

TEL.: 781-934-0178 • FAX: 781-934-6499
WWW.AMORYENGINEERS.COM

May 27, 2010

Mr. Cameron Walden
Supervising Sanitary Engineer
CT Department of Public Health
410 Capitol Avenue, MS #51 WAT
Hartford, CT 06134

RE: SRF Application Aljen Heights Watermain Extension
Town of Ledyard

Dear Mr. Walden:

As a follow up on your conversation with Mr. Gregory Tiefert, Ledyard WPCA Director regarding the Town of Ledyard's SRF application, the Town of Ledyard respectfully requests reconsideration of additional ranking point assignment to the Town of Ledyard's Aljen Heights water main project. In particular we note the following material facts/attributes of this water main project for your consideration:

- 1.) Item Z. Interconnection / Public Water System Absorbed – 15 points

The proposed project will absorb the Avery Trailer Park system (PWS ID CT0720061) into the Gales Ferry water system (PWS IDCT0727051).

The current supply source for Avery Hill Trailer Park (47 trailer units) has been noted to have a number of sanitary survey violations, i.e. letter from DPH (October 22, 2008 – RCSA 19-13-1351d(b)(3) and (j)(a)). Additionally, during the summer/fall of 2005, the community well went dry and WPCA trucked water in to supply the trailer park.

Attachment A is the System Consolidation Project Worksheet; which details the problems and solutions offered by consolidating the Avery Hill Trailer Park (AHTP) water system with the Gales Ferry water system. The Avery Hill Trailer Park system was privately owned by the AHTP Homeowner's Association. In 2003 the WPCA assumed ownership of the Avery Trailer Park water system. Since that time they have entirely replaced all water distribution piping.

- 2.) Item S. Source Deficit or Insufficient Margin of Safety – 40 points
and / or
- 3.) Item T System Capacity Benefits – 20 points

The proposed project will replace the current supply source. The existing well supply will be abandoned. The Trailer Park as well as the Aljen Heights area will be supplied from the Gales Ferry service area currently served by Groton Utilities (see Ledyard WPCA response to Sanitary Survey Report dated November 17, 2008).

Attachment B includes file notes, time sheets and invoices documenting the WPCA response when the community well went dry in summer/fall 2005.

The current average daily water use for the Gales Ferry water system is approximately 124,000 gpd; historically over the last three years water purchased from Groton Utilities for the Gales Ferry area has been:

Year	Total Annual Consumption (mil. gal.)	Average Daily Demand (gpd)
2007	48,912,019	134,005
2008	44,578,406	121,799
2009	42,410,478	116,193
Average	45,300,301	123,997

The current average daily water use for the Avery Hill Trailer Park water system is approximately 8,125 gpd (50 trailers x 2 people/trailer x 65 gpcd x 1.25 safety factor); projected use for the 280 lots to be served by Phases 1 and 2 is approximately 91,000 gpd (280 lots x 4 people/lot x 65 gpcd x 1.25 safety factor). The resultant total daily demand for the current Gales Ferry system and those trailers/lots to be served by the system is 223,000 gpd.

The existing Gales Ferry water system usage is 124,000 gpd. The projected water use for Phases 1 and 2 (assuming 100 % connection of all lots within proposed service area) and the Avery Trailer Park is 99,125 gpd. The combined total (223,000 gpd) is less than the 250,000 gpd Diversion Permit that Ledyard has for the Gales Ferry system. There is currently sufficient supply capacity to supply the Aljen Heights project under the existing permit.

The WPCA will be renewing the Gales Ferry Diversion Permit in the future, at that time evaluation of actual water use and percent connections versus permitted volume, including safety factor, will occur.

- 4.) Item CC. Source / Distribution Violations – 10 points and / or
- 5.) Item EE. Source Protection Improvements – 10 points

The current supply source for Avery Hill Trailer Park has been noted to have a number of sanitary survey violations, i.e. letter from DPH (October 22, 2008 – RCSA 19-13-1351d(b)(3) and (j)(a)). ***By connecting to the GF system and abandoning this supply well the sanitary survey violations are corrected.***

Attachment C is a Well Supply Map that illustrates Avery Hill Trailer Park Well's proximity to potential health hazards. It should be noted that in addition to the two septic systems in the vicinity, there is also the potential that three other residences have septic system components within the well supply influence zone. As-Built records on those systems are not available. ***Representatives of Ledge Light Health District (LLHD) are***

currently performing site inspections of the immediate area surrounding the well. (See correspondence from LLHD- Attachment D). Furthermore, state code (Section 19-13-B51d) requires that no well shall be located within 50 feet of the high water mark of any surface water body. ***The high water mark during flood stage is within 24 feet of the well. (See Attachment C)***

- 6.) Item R. Main Extension to Existing Private Wells with Public Health Code Violations – 20 points

The area currently includes on-site private wells for the entire proposed service area except the 47-lot Avery Hill Trailer Park, which is served by a community well. Lot size in the Aljen Heights area is generally 10,000 – 15,000 square feet (quarter-acre lots). Each lot includes on-site water (private well) and on-site septic disposal.

Based on file review attached as Attachment E are the water quality analyses for the private wells with nitrate levels at or above the 5.0 mg/l action level. These lots are shown on Attachment F. The WPCA and Ledge Light Health District will be meeting shortly to schedule additional testing to evaluate Nitrate levels further in areas adjacent to previously failed/replaced septic systems and to determine a course of action to require those homes with historic Nitrate levels above the Action Level to connect to the water main extension.

Based on file review of data available from the Ledge Light Health District, on-site septic systems have had to be replaced on approximately 22.5% (63 of the 280 potential services) of the properties within Phase 1 and 2.

- 7.) Item BB. Proactive Infrastructure – 5 points each (maximum of 25 points)
 - Main Replacement / Improvement
 - Main Extension for Interconnection

The project scope includes approximately 24,100 l.f. of 8- and 12-in. watermain in Avery Hill Road adjacent side streets within the Aljen Heights area of Ledyard. (See Attachment G).

Phase 1: 6,600 l.f. of 12-in. and 2,600 l.f. of 8-in. watermain in Avery Hill Road – Avery Hill Trailer Park to Ledyard/Preston town line including Tucker’s Run and Windward Lane, together with pressure reducing station and relocation of Gallup Hill Booster Pumping Station, including pump modifications and hydropneumatic tank.

Phase 2: 6,150 l.f. of 12-in. and 8,750 l.f. of 8-in. watermain in Aljen Heights including Michael Lane, Royal Oaks Drive, Arrowhead Drive, Aljen Avenue, Sunset Avenue, Hillcrest Avenue, Willow Lane, Louis Avenue, Barn Road, Laurel Avenue, Green Point Street, Johnny Court, Jean B Court and White Birch Court.

Phase 1 of the project includes a watermain stub at the Ledyard / Preston Town line. It would provide potential for future regionalization to facilitate 1) connecting the

Mr. Walden
May 27, 2010
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Ledyard system to the Preston/ Norwich system at Route 12, 2) supply water to the historic area of Preston, and 3) supply whatever development that may be sited at the former Norwich State Hospital. See Attachments H - Main Extension for Interconnection (plan) and I- Support Letter from Town of Preston.

In an effort to indicate all local approvals are in place - the original application included local inland wetlands approval for Phase J (dated January 29, 2010). Phase 2 was approved at the same meeting as Phase 1; *the Ledyard's Inland Wetlands and Waterway Commission have issued a clarifying approval letter (Attachment J)*

The Town of Ledyard respectfully requests reconsideration of the point assignment to this project. In particular we note the following for consideration:

<u>Item</u>	<u>Potential Points</u>
Interconnection / Public Water System Absorbed	15
Source Deficit or Insufficient Margin of Safety	40
System Capacity Benefits	20
Source / Distribution Violations	10
Source Protection Improvements	10
Main Extension to Existing Private Wells with Public Health Code Violations	20
Proactive Infrastructure: Main Replacement / Improvement	5
Extension for Interconnection	<u>5</u>
TOTAL	125

We trust this adequately supports reconsideration of the point assignment and clarifies the benefits of this proposed project. Please call if you have any question.

Very truly yours,

AMORY ENGINEERS, P.C.

By:

Richard S. Johnson, P.E.

RSJ:rsj
enc.
cc: Gregory Teifert
Ledyard Water Pollution Control Authority

AMORY ENGINEERS, P.C.

Supporting Information

SRF Application Aljen Heights Watermain Extension Town of Ledyard

Attachment A	System Consolidation Project Worksheet
Attachment B	Time sheets and invoices documenting AHTP community well went dry in summer/fall 2005
Attachment C	Well Supply Map - Avery Hill Trailer Park Well
Attachment D	Correspondence from Ledge Light Health District Letter May 26, 2010 – SRF Support Letter February 10, 2010 – FY 2011 Appropriations Support Letter
Attachment E	Water quality analyses for the private wells with nitrate levels at or above the 5.0 mg/l action level.
Attachment F	Water Quality / Septic System Concern Areas
Attachment G	Main Replacement / Improvement
Attachment H	Main Extension for Interconnection
Attachment I	Correspondence from Town of Preston May 24, 2010 – Support Letter Main Extension for Interconnection
Attachment J	Ledyard Inland Wetland and Waterways approval Phases 1 and 2

Ledyard Water Pollution Control Authority

Public Water System (PWS) Name

_____ DWSRF Project Identifier (DPH to assign)

**State of Connecticut – Department of Public Health
Drinking Water State Revolving Fund (DWSRF) – Project Eligibility Application**

SYSTEM CONSOLIDATION PROJECT WORKSHEET

This information is very important. If your project is a consolidation, acquisition, transfer of ownership, interconnection or water main extension project, please return this page with your eligibility application to earn points. A copy of this form should be completed for EACH system to be consolidated, whether public or private. Water main extensions to private wells with public health code violations will need to provide the number of homes to be served and documentation of the well(s) public health code violations.

NOTE: A written letter of intent/agreement with the water system/private homeowner(s) you propose to serve indicating the water system's/private homeowner's intent/agreement to connect must be provided with this worksheet.

Proposed System Served	PWSID (if applicable)	Population Served (number and type)	Number of Connections
Avery Hill Trailer Park	CT 0720061	127	47

1. Do you currently own this water system? Yes No
2. Do you propose to take over ownership of this water system? Yes No
3. Are you providing water or will you provide water service to this system through an interconnection with your system? Yes No
4. Has the system experienced documented instances of water distribution outages? Yes No (if yes, provide documentation) **SEE ATTACHMENT B**
5. Does the system lack adequate disinfection? Yes No (if yes, provide documentation)
6. Is the system's documented water production capability less than the minimum required by the DPH? Yes No (if yes, provide documentation)
7. Is the system's water storage capacity less than the minimum required by the DPH? Yes No (if yes, provide documentation)
8. Has the system experienced documented instances of water distribution pressures below 25 pounds pressure per square inch? Yes No (if yes, provide documentation)
9. Has the system experienced documented instances of water contaminants exceeding the primary or secondary Maximum Contaminant Level (MCL)? Yes No (if yes, provide documentation)
10. Is the system experiencing water distribution losses of greater than 25%? Yes No (if yes, provide documentation)

For each "Yes" answer above, please indicate the solution proposed by this project:

Identified Problem from checklist above (Item #)	Proposed Solution
1	Ledyard WPCA currently owns the system
3	The proposed watermain extension will connect the Gales Ferry system to Avery Hill Trailer Park system
4, 6, & 8	Replace well supply that went dry

To: Steve Masalin

April 27, 2006

From: Steve Banks

Re: Recent issues

Steve, the following are some of the issues regarding the WPCA.

- ❖ **Lakeside** called office about sink-hole in parking area. Recent rains have caused area to be undermined again. Cheryl from Lakeside is concerned about vehicular traffic in the area. John King and myself will inspect the parking lot and pipe under building # 13. Has King been paid for Lakeside project?
- ❖ **Lakeside** grease removal costs. We have not received payment for grease removal. WPCA voted to charge for this service. D.J. sent out invoice in February. Do we send up to date invoice with outstanding balance?
- ❖ What is the status of the **Country Club Well Site**? Has the WPCA received insurance reimbursement? We need to replace the hoses for the Wemco pumps that were stored at the well site.
- ❖ **Lakeside Issues**: I spoke with Tracy (CLA) about parking lot lighting wiring. He said he informed Cindy and Cheryl when King construction dug up the electrical service. It was verbally agreed that each time King dug up the **unmarked** electrical service that King would mark it for repair by Lakeside's electrician. I left a message for John King about the leaking pipes under some of the buildings. He maybe on vacation this week as his kids are out of school. I will follow up with him next week. We will pull some manhole covers to inspect for grease when Van is back from vacation (May 1).
- ❖ **Avery Hill**: The following is a list of expenses from the Water Emergency at Avery Hill that were paid out of our operating budget. I believe that the Town owes the WPCA for these expenses. (Account 1991) Treats pools (Water) from 9-21-05 to 1-3-06 = \$15,400.00. (Account 1673) Pro Plumbing (Services) 10-31-06 = \$1135.62 Also O.T. for Ledyard WPCA during this time = \$7113. Groton Utilities also worked O.T
- ❖ Has Mr. Patel secured a permit for car wash discharge? This has to be approved by the WPCA before being submitted to the State D E P.

Respectfully,

Stephen W. Banks

AVERY HILL WATER SYSTEM

Month: SEPTEMBER

Year: 2005

SPEED/GPD

Chlorine 22-1

Caustic 4-1

OPER

JRG

JRG

MB

MB

MB

JRG

MB/MB

JRG

JRG

JRG

JRG

JRG

JRG

Date	Total Flow	Chem Level	H2O Added	CHEM ADDED	Chem. Level	CHL. Resid.	PH Resid.
1	697730 ⁰⁰	29	16	4	20/40	.55	6.95
2	697908 ⁰⁰	26.5			36	.56	6.97
3	698114 ⁰⁰	23			29	.71	6.95
4	698334	19	8	2	21/31	.61	6.96
5	698509 ⁰⁰	16			24	.73	7.10
6	698751 ⁰⁰	11/34	22/16	1/4	14/34	.94	7.63
7	698952 ⁰⁰	30			25	.76	7.52
8	699134 ⁰⁰	26	12	3	16/31	.90	7.81
9	699336 ⁰⁰	21.5	16	4	21/41	.98	8.24
10	699538 ⁰⁰	17 3/4			34	.88	7.95
11	699751 ⁰⁰	17 3/4			32	.20	7.10
12	699952 ⁰⁰	17			31	.20	6.95
13	700169 ⁰⁰	16			30.5	.66	6.75
14	700169 ⁰⁰					.92	7.12
15	700169 ⁰⁰					.45	7.09
16	700169 ⁰⁰					.69	7.05
17	700211 ⁰⁰					.96	6.89
18	700211 ⁰⁰	15.5				.78	6.92
19	700226 ⁰⁰	15.5			29	.76	7.25
20	700231 ⁰⁰	15 1/2			29-	.84	7.27
21	700231 ⁰⁰	15 1/2			29-	.65	7.21
22	700231 ⁰⁰	15 1/2			29-	.75	7.31
23	700231 ⁰⁰	15 1/2			29-	.91	7.53
24	700235 ⁰⁰					.73	7.26
25	700235 ⁰⁰					.91	7.46
26	700235 ⁰⁰					.86	7.04
27	700238 ⁰⁰					.80	7.01
28	700238 ⁰⁰					.69	7.02
29	700238 ⁰⁰					.66	7.35
30	700238 ⁰⁰					.79	7.28
31	700239 ⁰⁰						

7 17,800
~~13/28/18,600~~
 14/28/ 20,600
 14/29/ 22,000
 15/30/17,500
 15/30/24,200
 16/30/24,100
 17/30/ 18,200
 13/29/ 20,200
 18/29/ 20,200
 10/28/ 21,300
 17/25/ 21,700

GALES FERRY WATER SYSTEM

⊕ ADDED AIR

⊗ - OUT OF H2O/WELL WENT DRY

AVERY HILL WATER SYSTEM

Month: OCTOBER

Year: 2005

speed
CL/CAW

Chlorine 22-1

Caustic 4-1

OPERATOR/
GPD

Date	Total Flow	Chem Level	H2O Added	CHEM ADDED	Chem. Level	CHL. Resid.	PH Resid.	OPERATOR	GPD
1	700239 ⁰⁰					.88	7.75	JM	0
2	700239 ⁰⁰					.76	7.33	JM	
3	700239 ⁰⁰					.84	7.30	JM	
4	700239 ⁰⁰					.91	7.39	JM	
5	700239 ⁰⁰					.97	7.02	JM	
6	700239 ⁰⁰					.73	7.08	JM	
7	700239 ⁰⁰					.70	7.06	JM	
8	700239 ⁰⁰					.70	7.03	JM	
9	700239 ⁰⁰					.66	7.18	JM	
10	700239 ⁰⁰					.64	7.15	JM	0
20/37	700239 ⁰⁰	15/38	22/8	1/2	28/38	.70	7.47	JM	5,000
20/40	700289 ⁰⁰	37			36	.78	7.16	NB	8,100
20/40	700370 ⁰⁰	35			32.5	.68	7.05	JM	2,400
20/40	700394 ⁰⁰	34 3/4			31	.43	7.42	JM	4,400
20/40	700438 ⁰⁰	33 1/2			29	.63	7.24	JM	23,800
20/40	700676 ⁰⁰	28			19	.77	7.23	NB	23,600
20/40	700912 ⁰⁰	22+	16	4	10/30	.82	8.70	JRG	18,100
20/35	701093 ⁰⁰	19			23	.85	7.26	JM	16,700+
20/35	701260 ⁰⁰	14			16.5	.81	7.60	JRG	20,400
20/35	701464 ⁰⁰	10/32	22/24	1/5	10/40	.85	7.23	JRG	19,900
20/37	701663 ⁰⁰	28			33	.80	7.24	JRG	21,400
20/36	701877 ⁰⁰	23			24.5	.78	7.42	JM	24,000
20/36	702117 ⁰⁰	17+		4/16	15/35	.70	7.21	JM	21,500
20/36	702332 ⁰⁰	12.5/35.5	22	1	26	.79	6.95	JRG	20,100
20/36	702533 ⁰⁰	31	00	20	18/28	.81	7.20	JRG	23,300
20/37	702766 ⁰⁰	25	16	4	19/39	.78	7.01	JRG	19,300
20/37	702959 ⁰⁰	20			31.5	.78	7.29	JRG	19,300
20/37	703152 ⁰⁰	16/39	22/	1/	23	.77	7.12	JRG	19,500
20/37	703347 ⁰⁰	34.5	1/16	1/4	16/36	.76	7.11	JRG	21,200
20/37	703559 ⁰⁰	29			27	.77	7.22	JRG	21,900
20/37	703798 ⁰⁰	24			18	.75	7.11	JRG	18,000

GALES FERRY H2O

371,900

⊕ ADDED AIR & WELL BACK ON LINE

+ TANK TRUCK



**TOWN OF LEDYARD
CONNECTICUT**
WATER POLLUTION CONTROL AUTHORITY
741 Colonel Ledyard Highway
Ledyard, CT 06339
860-464-3266

OVERTIME HOURS

Week Ending	John Gardner	Jim Metcalf	Mark Bradley
9-17-05	13.75	5.25	10
9-24-05	20.5	15.5	15
10-1-05	15.00	18.5	14
10-8-05	39.5	18.5	0
10-15-05	20.	7.5 Double Time 14 X 1 1/2	1.5
Main Break on Rose Marie 10-8-05 Groton Fixed			
John Gardner			
108.75 hours X \$41.37=\$4,498.98			
Jim Metcalf			
71.75 hours X \$19.92=\$1,429.26			
7.5 hours X \$26.56=\$199.20			
Mark Bradley			
40.5 hours X \$24.34=\$985.77			
Overtime Spent on Avery Hill			
\$7,113.00			

No. 5100

WPCA

Pay Period Ending

ENDING

9-17-05

15-1920-4-100

John R. Gardner

N

N

No. 5668

WPCA

ING

Pay Period Ending

9-17-05

15-1620-4-100

Mark Bradley

NO.

NAM.

EXTRA TIME		REGULAR TIME	
	MONDAY	A.M. IN	SEP 22 6 48
		NOON OUT	
		P.M. IN	SEP 22 3 30
	TUESDAY	A.M. IN	SEP 23 6 47
		NOON OUT	
		P.M. IN	SEP 23 8 00
	WEDNESDAY	A.M. IN	SEP 24 6 50
		NOON IN	
		P.M. IN	SEP 24 3 20
	THURSDAY	A.M. IN	SEP 25 6 50
		NOON OUT	
		P.M. IN	SEP 25 8 09
	FRIDAY	A.M. IN	SEP 26 6 48
		NOON OUT	
		P.M. IN	SEP 26 3 36
	SATURDAY	A.M. IN	
		NOON OUT	
		P.M. IN	
	SUNDAY	A.M. IN	
		NOON OUT	
		P.M. IN	
TOTAL		TOTAL	

NO LUNCH 0.5

5.0 HRS

THIS SIDE OUT

4.75 HRS

4:30P

8:30P

4.0 HRS

7:00A

11:00A

4.0 HRS

TOTAL 17.75 HRS

WPCA FORM 1259 (M-33)

MADE IN U.S.A.

EXTRA TIME		REGULAR TIME	
	MONDAY	A.M. IN	SEP 22 6 57
		NOON OUT	
		P.M. IN	SEP 22 3 30
	TUESDAY	A.M. IN	SEP 23 6 54
		NOON OUT	
		P.M. IN	SEP 23 3 30
	WEDNESDAY	A.M. IN	SEP 24 6 30A
		NOON IN	
		P.M. IN	SEP 24 8:00P
	THURSDAY	A.M. IN	SEP 25 7 00
		NOON OUT	
		P.M. IN	SEP 25 3 40
	FRIDAY	A.M. IN	SEP 26 8 30
		NOON OUT	
		P.M. IN	SEP 26 7 01
	SATURDAY	A.M. IN	
		NOON OUT	
		P.M. IN	
	SUNDAY	A.M. IN	
		NOON OUT	
		P.M. IN	
TOTAL		TOTAL	

- ON CALL -

- NO LUNCH 0.5

5.0 HRS

THIS SIDE OUT

0.25 HRS

5.0 HRS

6:00AM-10:00AM

4.0 HRS

TOTAL 14.75 HRS

WPCA FORM 1259 (M-33)

MADE IN U.S.A.

No. 5766

WPCA

No. 5451

Pay Period Ending 9-17-05

IND

NO.

15-1620-4-100

NO.

James Metcalf

Robe

NAME

NAME

EXTRA TIME		REGULAR TIME	
MONDAY	A.M.	IN	SEP 12 6 57
	NOON	OUT	
	P.M.	OUT 8	SEP 12 3 30
TUESDAY	A.M.	IN	SEP 13 6 54
	NOON	OUT	
	P.M.	OUT 8	SEP 13 3 30
WEDNESDAY	A.M.	IN	SEP 14 6 56
	NOON	OUT	
	P.M.	OUT 8	SEP 14 3 30
THURSDAY	A.M.	IN	JR 6:30A
	NOON	OUT	
	P.M.	OUT 8	SEP 15 3 40
FRIDAY	A.M.	IN	JR 6:00A
	NOON	OUT	
	P.M.	OUT 8	SEP 15 3 33
SATURDAY	A.M.	IN	
	NOON	OUT	
	P.M.	OUT	
SUNDAY	A.M.	IN	
	NOON	OUT	
	P.M.	OUT	
TOTAL 5.25 HRS		TOTAL 40 HRS	

WPCA FORM 1259 (M-33)

MADE IN U.S.A.

EXTRA TIME

28.5 ct

ON CALL

THIS SIDE OUT

TOTAL 28.5 e

WPCA FORM 12:

No. 4766

WPCA

Pay Period Ending

VDING

9-24-05

NO

15 - 1620 - 4 - 100

James Metcalf

NAI

EXTRA TIME		REGULAR TIME			
1.5 HRS	MONDAY	A.M.	IN	OUT	JR 5:30 AM
		NOON	IN	OUT	
		P.M.	IN	OUT	8 SEP 3:30
1.5 HRS	TUESDAY	A.M.	IN	OUT	JR 5:30 A
		NOON	IN	OUT	
		P.M.	IN	OUT	8 SEP 3:30
1.5 HRS	WEDNESDAY	A.M.	IN	OUT	JR 5:30 A
		NOON	IN	OUT	
		P.M.	IN	OUT	8 SEP 3:30
1.5 HRS	THURSDAY	A.M.	IN	OUT	JR 5:30 A
		NOON	IN	OUT	
		P.M.	IN	OUT	8 SEP 3:30
2.5 HRS	FRIDAY	A.M.	IN	OUT	JR 5:30 A
		NOON	IN	OUT	
		P.M.	IN	OUT	8 SEP 4:25
5:30A JR 9:00A	SATURDAY	A.M.	IN	OUT	JR 5:30 A
		NOON	IN	OUT	
		P.M.	IN	OUT	
3.5 HRS 5:30A JR 9:00A	SUNDAY	A.M.	IN	OUT	
		NOON	IN	OUT	
		P.M.	IN	OUT	

TOTAL 15.5 HRS

TOTAL 40 HRS

WPCA G

NO. No. 5668

Pay Period Ending

9-24-05

15-1620-4-100

Mark Bradley

NAME.

EXTRA TIME		REGULAR TIME	
MONDAY	A.M.	IN	SEP 26 59
	NOON	OUT	
	P.M.	OUT	8 SEP 26 3 30
TUESDAY	A.M.	IN	SEP 27 7 00
	NOON	OUT	
	P.M.	OUT	8 SEP 27 3 30
WEDNESDAY	A.M.	IN	SEP 27 7 01
	NOON	OUT	
	P.M.	OUT	8 SEP 27 8 30
THURSDAY	A.M.	IN	SEP 28 6 54
	NOON	OUT	
	P.M.	OUT	8 SEP 28 8 30
FRIDAY	A.M.	IN	SEP 28 7 01
	NOON	OUT	
	P.M.	OUT	8 SEP 28 4 30
SATURDAY	A.M.	IN	
	NOON	OUT	
	P.M.	OUT	
SUNDAY	A.M.	IN	
	NOON	OUT	
	P.M.	OUT	
TOTAL		21 HRS.	TOTAL 40 HRS.

50 HRS.

50 HRS.

10 HRS.

4:30 pm - 8:30 pm

6:00 AM - 8:00 AM
2.0 Hrs. (for 9.505)

6:00 AM - 10:00 AM

WPCA FORM 1259 (M33)

MADE IN U.S.A.

Robert Van Compenolle

John R. Gardner

EXTRA TIME	REGULAR TIME
8.5 CT	MONDAY A.M. IN NOON IN P.M. 8 SEP 19 3 30 SEP 20 6 09
	TUESDAY A.M. IN NOON IN P.M. 8 SEP 20 3 30 SEP 21 6 59
	WEDNESDAY A.M. IN NOON IN P.M. 8 SEP 21 3 30 SEP 22 6 29
	THURSDAY A.M. IN NOON IN P.M. 8 SEP 22 3 30
- 8.0 CT	FRIDAY A.M. IN NOON IN P.M. 8 CT
1100-1300 3.0 CT	SATURDAY A.M. IN NOON IN P.M. IN
1200-1400 3.0 CT	SUNDAY A.M. IN NOON IN P.M. IN
TOTAL 26.5 CT	TOTAL 40 HRS

EXTRA TIME	REGULAR TIME
	MONDAY A.M. IN NOON IN P.M. 8 SEP 19 8 30 SEP 20 6 47
5.0 HRS	TUESDAY A.M. IN NOON IN P.M. 8 SEP 20 8 57 SEP 21 6 49
- ON CALL -	WEDNESDAY A.M. IN NOON IN P.M. 8 SEP 21 4 34 SEP 22 6 47
5.5 HRS	THURSDAY A.M. IN NOON IN P.M. 8 SEP 22 3 30 SEP 22 6 49
1.0 HRS	FRIDAY A.M. IN NOON IN P.M. 8 SEP 22 8 35
	SATURDAY A.M. IN NOON IN P.M. IN
	SUNDAY A.M. IN NOON IN P.M. IN
TOTAL 24.5 HRS	TOTAL 40 HRS

THIS SIDE OUT

THIS SIDE OUT

WPCA JING

No. 5766

Pay Period Ending

NO.

10-1-05
15-1620-4-100

James Metcalf

NAME

No. 5100

Pay Period Ending

WPCA

JING

NO.

10-1-05
15-1920-6-100

John R. Gardner

NAME

EXTRA TIME		REGULAR TIME	
	MONDAY	A.M. 8 Sep 26 6 52	
		NOON	
5.0 HRS		P.M. 8 Sep 26 8 31	
	TUESDAY	A.M. 8 Sep 27 6 50	
ON CALL		NOON	
		P.M. 8 Sep 27 3 30	
	WEDNESDAY	A.M. 8 Sep 28 6 43	
		NOON	
5.0 HRS		P.M. 8 Sep 28 8 34	
	THURSDAY	A.M. 8 Sep 29 6 49	
		NOON	
LOFTUS POWER FAILURE 5.5 HRS		P.M. 8 Sep 29 9 02	
	FRIDAY	A.M. 8 Sep 30 6 48	
		NOON	
5.0 HRS		P.M. 8 Sep 30 8 33	
	SATURDAY	A.M.	
		NOON	
		P.M.	
7:00A	SUNDAY	A.M.	
11:00A		NOON	
		P.M.	
4.0 HRS			
TOTAL 24.5 HRS			TOTAL 40 HRS

EXTRA TIME		REGULAR TIME	
1.5 HRS	MONDAY	A.M. 8 5:30A	
		NOON	
		P.M.	8 Sep 26 3 32
1.5 HRS	TUESDAY	A.M. 8 5:30A	
		NOON	
		P.M.	8 Sep 27 3 30
1.5 HRS	WEDNESDAY	A.M. 8 5:30A	
		NOON	
		P.M.	8 Sep 28 3 30
1.5 HRS	THURSDAY	A.M. 8 5:30A	
		NOON	
		P.M.	8 Sep 27 3 33
1.5 HRS	FRIDAY	A.M. 8 5:30A	
		NOON	
		P.M.	8 Sep 28 3 39
5:30A	SATURDAY	A.M.	
1:00P		NOON	
4:30P		P.M.	
8:30P 11.5 HRS			
5:30A	SUNDAY	A.M.	
9:00A		NOON	
		P.M.	
3.5 HRS			
TOTAL 22.5 HRS			TOTAL 40 HRS

WPCA FORM 1259 (M-33)

MADE IN U.S.A.

No. 5100

Pay Period Ending

DING

NO.

10-8-05

15-1920-6-100

John R. Gardner

NAN

No. 5100

10-8-05
James Metcalf

EXTRA TIME		REGULAR TIME	
MONDAY	A.M.	IN	OUT
	NOON	IN	OUT
TUESDAY	A.M.	IN	OUT
	NOON	IN	OUT
WEDNESDAY	A.M.	IN	OUT
	NOON	IN	OUT
THURSDAY	A.M.	IN	OUT
	NOON	IN	OUT
FRIDAY	A.M.	IN	OUT
	NOON	IN	OUT
SATURDAY	A.M.	IN	OUT
	NOON	IN	OUT
SUNDAY	A.M.	IN	OUT
	NOON	IN	OUT

5.0 HRS

ON CALL

5.0 HRS

5.0 HRS

5.0 HRS

5.0 HRS

6:00A

10:00A

4.0 HRS

6:30A

NO LUNCH 0.5 HRS

8:30P

TOTAL 43.5 HRS

TOTAL 40 HRS

1.5 HRS

1.5 HRS

1.5 HRS

1.5 HRS

1.5 HRS

8

7.5 HRS

5:30A

1:00P J.R.G.

7.5 HRS

22.5 HRS

J.R.G. 5:30

8 5:30

8 5:30A

8 5:30A

8 5:30

8 5:30A

9:00A
OT 4:00P
← 8:00P

40 HRS

OK

No. 5766

WPCA WIDING

NO

Pay Period Ending 10-15-05
11 1620 4-100

James Metcalf

NA.

EXTRA TIME		REGULAR TIME	
5:30A	MONDAY	A.M. IN	HOLIDAY PAY
1:00P DOUBLE TIME		NOON OUT	
4:00P P.R.Y.		P.M. IN	8
8:00P 11.5 HRS			
	TUESDAY	A.M. IN	P.R.Y. 5:30A
		NOON OUT	
1.5 HRS		P.M. IN	8
			Oct = 3:30
	WEDNESDAY	A.M. IN	7:00A
		NOON OUT	
		P.M. IN	8
1.5 HRS			3:30P
	THURSDAY	A.M. IN	P.R.Y. 5:30A
		NOON OUT	
		P.M. IN	8
1.5 HRS			Oct = 4:00
	FRIDAY	A.M. IN	P.R.Y. 5:30A
		NOON OUT	
		P.M. IN	8
5:30A			Oct = 3:30
7:30A	SATURDAY	A.M. IN	
		NOON OUT	
2.0 HRS		P.M. IN	
5:30A 3.5 HRS	SUNDAY	A.M. IN	
9:00A		NOON OUT	
4:00P 4.0 HRS		P.M. IN	
8:00P			
TOTAL 37 HRS			TOTAL 40 HRS

22.25

* ON CALL

- 1 hr C.T.

- 1 hr C.T.

+ 16 hrs C.T. (Flood)

36.5 CT

No. 5668

Pay Period Ending 10-15-05

15-1920-6-100

Mark Bradley

NO.

NAME.

No. 5100

Pay Period Ending

10-15-05

15-1920-6-100

John R. Gardner

WPCA

EXTRA TIME		REGULAR TIME	
MONDAY	A.M.	IN	OUT
	NOON	IN	OUT
	P.M.	IN	OUT
HOLIDAY			
TUESDAY	A.M.	IN	OUT
	NOON	IN	OUT
	P.M.	IN	OUT
Oct 12 6:50			
WEDNESDAY	A.M.	IN	OUT
	NOON	IN	OUT
	P.M.	IN	OUT
Oct 12 3:30			
THURSDAY	A.M.	IN	OUT
	NOON	IN	OUT
	P.M.	IN	OUT
Oct 12 7:00			
FRIDAY	A.M.	IN	OUT
	NOON	IN	OUT
	P.M.	IN	OUT
Oct 12 6:56			
SATURDAY	A.M.	IN	OUT
	NOON	IN	OUT
	P.M.	IN	OUT
Oct 12 3:30			
SUNDAY	A.M.	IN	OUT
	NOON	IN	OUT
	P.M.	IN	OUT
6:00A 10:00A			
TOTAL 5.5 hrs.		TOTAL	

THIS SIDE OUT

6:00AM-10:00AM
4.0 HRS.

ON CALL -

5.0 HRS

5.0 HRS

LOFTUS

BACKWASH

5.0 HRS &

1.0 HR COMP.

5.0 HRS

6:00A

10:00A

4.0 HRS.

24 HRS/1 HR COMP

40 HRS

HOLIDAY PA

8

Oct 12 6:1

8

Oct 12 8:3

Oct 12 6:4

8

Oct 12 8:33

Oct 12 6:49

8

Oct 12 8:32

Oct 12 6:51

8

Oct 12 8:32

38 LOADS (6,000 GAL) H₂O 228,000 GAL

15,000 TRUCKING COSTS \$720. WATER

LABOR COSTS

1-SUPERVISOR - 134.25 HRS 5,306.67

1-OPERATOR 41.25 HRS 1,004.24

1-LABORER 79.75 HRS 1,588.62

TOT. 255.25 HRS \$7,899.53 TOTAL

THUR. - Change INJECTOR CHEM BLDG / CALL RAY VALENTINI
6-4-09 625-1583
WHEN INJECTORS IN

TREAT'S WATER/GULF STREAM EXPRESS

P.O. Box 351
22 Avery Road
UNCASVILLE, CONNECTICUT 06382
(860) 848-7911

TREAT'S WATER/GULF STREAM EXPRESS

P.O. Box 351
22 Avery Road
UNCASVILLE, CONNECTICUT 06382
(860) 848-7911

CUSTOMER'S ORDER NO.		PHONE		DATE	
				9-18-05	
NAME TOWN OF LEDYARD					
ADDRESS AVERY HILL RD. TRAILER PARK					
CASH	C.O.D.	CHARGE	ON ACCT.	MDSE. RET'D.	PAID OUT
					AT
1		LOAD H2O	9-18-05 AM		200.00
1		LOAD H2O	9-18-05 PM		FA
1		LOAD	9-19-05 PM		
1		LOAD	9-20-05 AM		
1		LOAD H2O	9-20-05 PM		
1		LOAD H2O	9-21-05 AM		
2		LOADS H2O	9-22-05 AM		
					TAX
SOLD BY		RECEIVED BY		TOTAL	

CUSTOMER'S ORDER NO.		PHONE		DATE	
				9-14-05	
NAME TOWN OF LEDYARD					
ADDRESS AVERY HILL RD TRAILER PARK					
CASH	C.O.D.	CHARGE	ON ACCT.	MDSE. RET'D.	PAID OUT
					AT
1		LOAD H2O	9-14-05 AM		200.00
1		LOAD H2O	9-14-05 PM		FA
1		LOAD H2O	9-15-05 AM		
1		LOAD H2O	9-15-05 PM		
1		LOAD H2O	9-16-05 AM		
1		LOAD H2O	9-16-05 PM		
1		LOAD H2O	9-17-05 AM		
					TAX
SOLD BY		RECEIVED BY		TOTAL	

C PRODUCT 609 All claims and returned goods MUST be accompanied by this bill.

C PRODUCT 609 All claims and returned goods MUST be accompanied by this bill.

154226 **NEBS** To Reorder: 800-225-6380 or nebs.com **Thank You**

154217 **NEBS** To Reorder: 800-225-6380 or nebs.com **Thank You**

TREAT'S WATER/GULF STREAM EXPRESS

P.O. Box 351
22 Avery Road
UNCASVILLE, CONNECTICUT 06382
(860) 848-7911

TREAT'S WATER/GULF STREAM EXPRESS

P.O. Box 351
22 Avery Road
UNCASVILLE, CONNECTICUT 06382
(860) 848-7911

CUSTOMER'S ORDER NO.		PHONE		DATE	
				9-23-05	
NAME TOWN OF LEDYARD					
ADDRESS AVERY HILL RD					
CASH	C.O.D.	CHARGE	ON ACCT.	MDSE. RET'D.	PAID OUT
2		LOADS H2O	9-23-05		400.00
2		LOADS H2O	9-24-05		400.00
2		LOADS H2O	9-25-05		400.00
2		LOADS H2O	9-26-05		400.00
2		LOADS H2O	9-27-05		400.00
1		LOAD H2O	9-28-05		200.00
2		LOADS H2O	9-29-05		400.00
1		LOAD H2O	9-30-05		200.00
					TAX
SOLD BY		RECEIVED BY		TOTAL	

CUSTOMER'S ORDER NO.		PHONE		DATE	
				10-1-05	
NAME TOWN OF LEDYARD					
ADDRESS AVERY HILL RD					
CASH	C.O.D.	CHARGE	ON ACCT.	MDSE. RET'D.	PAID OUT
2		LOADS H2O	10-1-05 AM		400.00
1		LOAD H2O	10-1-05 PM		200.00
2		LOADS H2O	10-2-05 AM		400.00
1		LOAD H2O	10-2-05 PM		200.00
1		LOAD H2O	10-3-05 AM		200.00
1		LOAD H2O	10-3-05 PM		200.00
2		TRAILERS RENTALS			600.00
					TAX
SOLD BY		RECEIVED BY		TOTAL	

C PRODUCT 609 All claims and returned goods MUST be accompanied by this bill.

C PRODUCT 609 All claims and returned goods MUST be accompanied by this bill.

154244 **NEBS** To Reorder: 800-225-6380 or nebs.com **Thank You**

154268 **NEBS** To Reorder: 800-225-6380 or nebs.com **Thank You**

TREAT'S WATER/GULF STREAM EXPRESS

PER
JOHN
GARDNER

P.O. Box 351
22 Avery Road
UNCASVILLE, CONNECTICUT 06382
(860) 848-7911

CUSTOMER'S ORDER NO.		PHONE		DATE	
		464-8906		9-13-05	
NAME TOWN OF LEDYARD					
ADDRESS AVERY HILL RD TRAILER PARK					
CASH	C.O.D.	CHARGE	ON ACCT.	MOSE. RETD.	PAID OUT
		DELIVERY OF TANK TRAILER ON SITE FOR TRAILER PARK + RENTAL WITH H ₂ O \$500 = 1ST WEEK 300 + WATER PER WK John R. Gardner			300 00 PER WK 200 00 TAX
SOLD BY				RECEIVED BY	
				TOTAL	
				500 00	

C PRODUCT 609 All claims and returned goods MUST be accompanied by this bill.

154212

NEBS To Reorder:
800-225-6380 or nebs.com

Thank You

ORIGINAL CHECK IS PRINTED ON CHEMICAL REACTIVE PAPER AND HAS MICRO PRINTING IN THE SIGNATURE LINE

TREASURER TOWN OF LEDYARD, CONNECTICUT
SPECIAL FUNDS ACCOUNT

51-7337/2111

T 014167

MUST BE CASHED
WITHIN 60 DAYS

THE DIME SAVINGS BANK
290 SALEM TPKE
NORWICH, CT 06360

MO.	DAY	YEAR
09	29	2005

14167

\$	AMOUNT
*****	*****3,500.00

PAY
TO:

TREAT'S POOLS
C.B. CONSTRUCTION
PO BOX 38
UNCASVILLE, CT 06382

W.J. O'Neil
Authorized Signature

Nancy R. Gosselin
Treasurer, Town of Ledyard

⑈014167⑈ ⑆211173373⑆ 936 001 967⑈

WRONG COMPANY!

THIS IS NOT TREATS POOLS
+ C.B. CONST.
PLS CHANCE TO

Location..... WFOA
 Batch Number... 647
 Reg Number..... 2047
 Reg Entry Date. 9/21/2005
 Vendor Number. 05706
 Vendor Name... TREAT'S ROOTS

Project
 Total Detail 15,000.00
 Total Amt Net... 15,000.00

Ship To. TOWN OF LEDYARD
 WFOA - ANNEX BLDG
 741 OY/LED HWY REAR
 LEDYARD, CT.
 06339

Bill To.. TOWN OF LEDYARD
 ACCOUNTS PAYABLE
 P.O. BOX 310
 LEDYARD, CT.
 06339

Discount Percent
 Of Dollars
 Description

Shipping/Freighting Percent
 Of Dollars
 Quantity Unit Price Ua/M Extend Value Account Number

10 EMERGENCY WATER AMBER HILL 1.00 15,000.0000 15000.00 015-000-1991-001-0000-0000

 End Of List *****

Please pay on P.O. # 1193
 Partial/Close 11-7-2005

Cynthia L. Cross

464-8220
TREAT'S WATER/GULF STREAM EXPRESS
 P.O. Box 351
 22 Avery Road
 UNGASVILLE, CONNECTICUT 06382
 (860) 848-7911

CUSTOMER'S ORDER NO.	PHONE	DATE
NAME		11-7-05
ADDRESS		
TOWN OF LEDYARD		
AVERY HILL RD		
1	LOAD H ₂ O AT	200.00
3	WEEKS TANK TRAILER RENTAL AT	300.00 PER WK.
TAX		
SOLD BY	RECEIVED BY	TOTAL
		1100.00

TREATS WATER/GULF STREAM EXPRESS

P.O. Box 351
 22 Avery Road
 LINCASVILLE, CONNECTICUT 06382
 (860) 848-7911

CUSTOMER'S ORDER NO.		PHONE		DATE	
NAME		TOWN OF LEBYARD		11-8-05	
ADDRESS		Avery Hill Rd LEBYARD			
CASH	G.O.L.D.	CHARGE	ON ACCT	MOSE RETD.	PAID OUT
	1	Card	200		00
SOLD BY					RECEIVED BY
TAX					
TOTAL					200.00

C PRODUCT 608 All claims and returned goods MUST be accompanied by this bill.
 154317 To Recipient: 800-225-6380 or 1888-6383
 Thank You

Treats Pool Water/Gulfstream Express

Invoice

P.O. Box 351
 22 Avery Rd.
 Uncasville, CT 06382

DATE	INVOICE
10/14/2005	154275

BILL TO
Town of Ledyard Trailor Park Avery Hill Rd, Ledyard CT 06339

SHIP TO

P.O. NUMBER	TERMS	REP	SHIP	VIA	F.O.B.	PROJECT
			10/14/2005			

QUANTITY	ITEM CODE	DESCRIPTION	PRICE EACH	AMOUNT
2	Tnkrnt3	Tank Rental-Commercial/Week	300.00	600.
1	Areal	Water Delivery 10/4/05	200.00	200.
2	Areal	Water Delivery 10/5/05	200.00	400.
2	Areal	Water Delivery 10/6/05	200.00	400.
2	Areal	Water Delivery 10/7/05	200.00	400.
2	Areal	Water Delivery 10/8/05	200.00	400.
1	Areal	Water Delivery 10/9/05	200.00	200.
2	Areal	Water Delivery 10/10/05	200.00	400.
2	Areal	Water Delivery 10/11/05	200.00	400.
2	Areal	Water Delivery 10/14/05	200.00	400.

✓ out

Please pay *#1193102405*
 Partial/Close
Cynthia L. Cross

Thank you for your business.	Total	\$3,800.00
------------------------------	--------------	------------

Treats Pool Water/Gulfstream Express

Invoice

P.O. Box 351
 22 Avery Rd.
 Uncasville, CT 06382

DATE	INVOICE #
10/4/2005	154244

BILL TO
Town of Ledyard Traylor Park Avery Hill Rd, Ledyard CT 06339

SHIP TO

P.O. NUMBER	TERMS	REP	SHIP	VIA	F.O.B.	PROJECT
			10/4/2005			

QUANTITY	ITEM CODE	DESCRIPTION	PRICE EACH	AMOUNT
2	Area1	Water Delivery 9/29/05	200.00	400.00
1	Area1	Water Delivery 9/30/05	200.00	200.00
2	Area1	Water Delivery 10/01/05	200.00	400.00
1	Area1	Water Delivery-10/1/05	200.00	200.00
2	Area1	Water Delivery 10/2/05	200.00	400.00
1	Area1	Water Delivery- 10/2/05	200.00	200.00
1	Area1	Water Delivery- 10/3/05	200.00	200.00
1	Area1	Water Delivery- 10/3/05	200.00	200.00
2	Tnkrnt3	Tank Rental-Commercial/Week	300.00	600.00

Please pay via P.O. #1193 10/5/2005
 Partial/Close

Cynthia L. Cross

Thank you for your business.	Total	\$2,800.00
------------------------------	--------------	-------------------

15000.00

Treats Pool Water/Gulfstream Express

Invoice

P.O. Box 351 Send here
22 Avery Rd.
Uncasville, CT 06382

DATE	INVOICE #
10/4/2005	154244

BILL TO
Town of Ledyard Traylor Park Avery Hill Rd, Ledyard CT 06339

SHIP TO

P.O. NUMBER	TERMS	REP	SHIP	VIA	F.O.B.	PROJECT
			10/4/2005			

QUANTITY	ITEM CODE	DESCRIPTION	PRICE EACH	AMOUNT
2	Arcal	Water delivery 9/23/05	200.00	400.00
2	Arcal	Water Delivery- 9/24/05	200.00	400.00
2	Arcal	Water Delivery 9/25/05	200.00	400.00
2	Arcal	Water Delivery 9/26/05	200.00	400.00
2	Arcal	Water Delivery 9/27/05	200.00	400.00
1	Arcal	Water Delivery 9/28/05	200.00	200.00

Please pay on P.O. #1193 10/5/05
Partial/Close

Cynthia L. Cross

TOTAL PAGES 142 \$ 5,000.00

Thank you for your business.

Total

\$2,200.00

5000.00
TOTAL

Treats Pool Water/Gulfstream Express

Invoice

P.O. Box 351
 22 Avery Rd.
 Uncasville, CT 06382

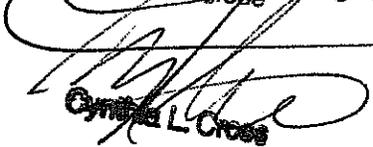
DATE	INVOICE
10/14/2005	154275

BILL TO
Town of Ledyard Traylor Park Avery Hill Rd, Ledyard CT 06339

SHIP TO

P.O. NUMBER	TERMS	REP	SHIP	VIA	F.O.B.	PROJECT
			10/14/2005			

QUANTITY	ITEM CODE	DESCRIPTION	PRICE EACH	AMOUNT
2	Tnkrnt3	Tank Rental-Commercial/Week	300.00	600.
1	Areal	Water Delivery 10/4/05	200.00	200.
2	Areal	Water Delivery 10/5/05	200.00	400.
2	Areal	Water Delivery 10/6/05	200.00	400.
2	Areal	Water Delivery 10/7/05	200.00	400.
2	Areal	Water Delivery 10/8/05	200.00	400.
1	Areal	Water Delivery 10/9/05	200.00	200.
2	Areal	Water Delivery 10/10/05	200.00	400.
2	Areal	Water Delivery 10/11/05	200.00	400.
2	Areal	Water Delivery 10/14/05	200.00	400.

Please pay on P.O. #11931024-05
 Partial/Close

 Cynthia L. Cross

Thank you for your business.

Total \$3,800.00

Treats Pool Water/Gulfstream Express

P.O. Box 351
22 Avery Rd.
Uncasville, CT 06382

Invoice

DATE	INVOICE #
11/12/2005	154315

BILL TO
Town of Ledyard Traylor Park Avery Hill Rd, Ledyard CT 06339
464-8220

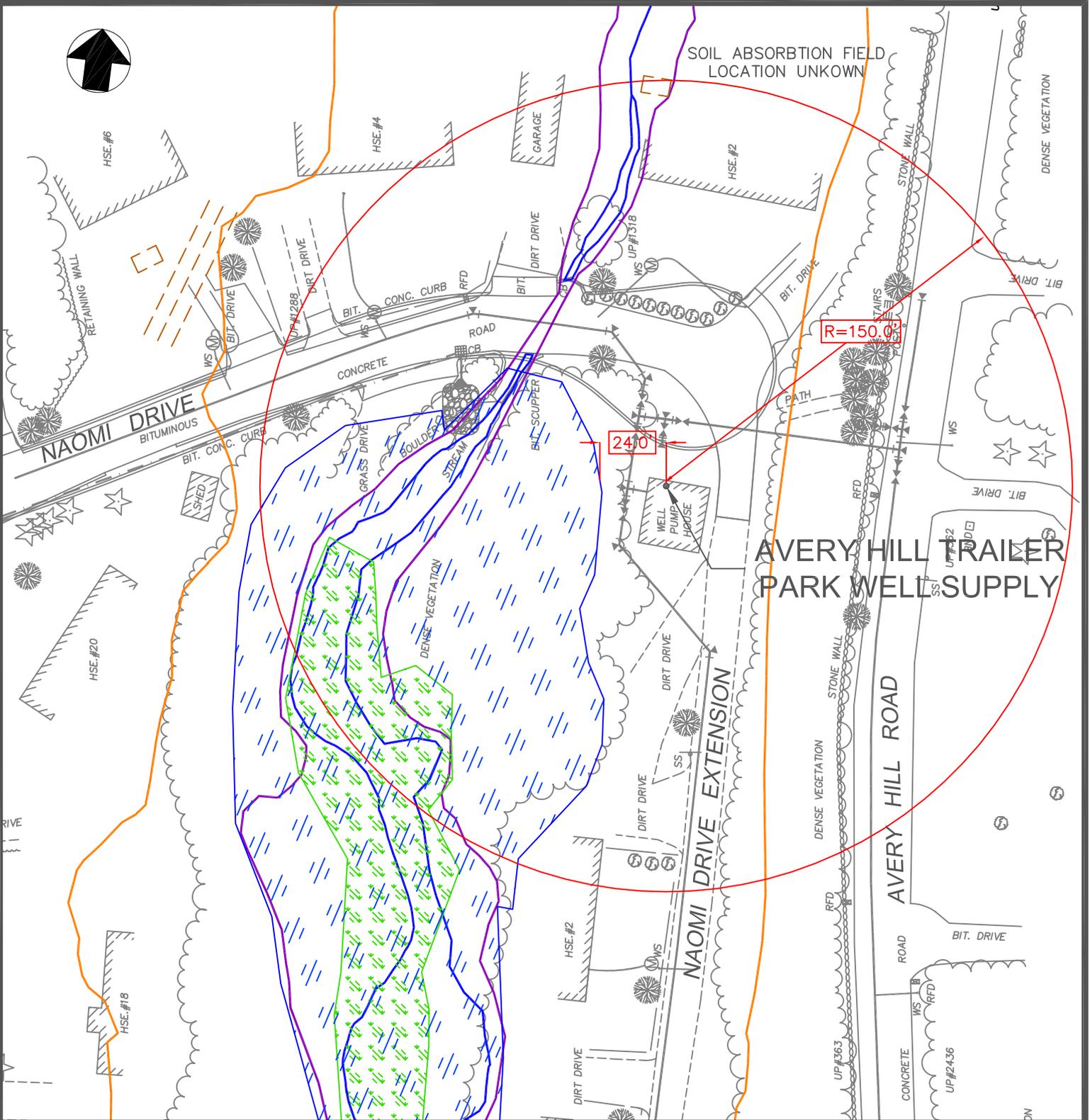
SHIP TO

P.O. NUMBER	TERMS	REP	SHIP	VIA	F.O.B.	PROJECT
			11/12/2005			

QUANTITY	ITEM CODE	DESCRIPTION	PRICE EACH	AMOUNT
1	Arcal	Water Delivery-Area 1	200.00	200.00
3	Tnkmt3	Tank Rental-Commercial/Week AVERY HILL RD	300.00	900.00
		8487911		
		ATTN: MICHELE		

*rent out
P. 15 in
CK 14335*

Thank you for your business.	Total	\$1,100.00
------------------------------	--------------	------------



SEPTIC SYSTEM AS-BUILT INFORMATION IS FROM LEDGE LIGHT HEALTH DISTRICT, GROTON, CT
 CONTOUR AND WETLANDS INFORMATION IS FROM THE LEDYARD GEOGRAPHICAL INFORMATION SYSTEM
 AVERY HILL TRAILER PARK SYSTEM AS-BUILT INFORMATION IS FROM AMORY ENGINEERS, P.C.

LEGEND

-  ELEVATION 250 FT
-  ELEVATION 255 FT
-  WETLANDS
-  FLOOD INUNDATED
-  WELL SUPPLY INFLUENCE ZONE 150 FT
-  AVERY HILL WELL
-  SEPTIC SYSTEM
-  WATERMAIN
-  STREAM

AVERY HILL TRAILER PARK WELL SUPPLY MAP

CT SRF SUPPLEMENTAL
ATTACHMENT INFORMATION

MAY 2010

SCALE 1" = 50'

AMORY ENGINEERS, P.C.
DUXBURY, MA



Ledge Light
Health District

May 26, 2010

Mr. Gregory Teifert, Director
Ledyard Water & Sewer Department
741 Colonel Ledyard Highway
Ledyard, Conn. 06339

Re: Sanitary Survey, Avery Hill Trailer Park

Dear Mr. Teifert:

As requested, a sanitary survey was conducted on portions of the Avery Hill Trailer Park on May 25, 2010. The survey consisted of on-site inspections and resident interviews, where possible, of the properties within, or in close proximity to, a 150 ft. radius of the source water well serving the Avery Hill Trailer Park Water Supply which is owned and operated by the Ledyard Water & Sewer Department. The survey also included inspections of properties and interviews with property owners, where possible, of properties abutting, or in proximity to, the storm drainage system in Naomi Drive which discharges to a wetland area approximately 75 +/- ft. from the source well. The purpose of the survey was to identify and locate sewage disposal systems serving residences which might have an impact on well water quality either due to system failure or marginal/insufficient construction.

Approximately seventeen (17) properties were inspected. Of the seventeen properties inspected, one property had an active sewage overflow and 2 other properties had system deficiencies consisting of poorly covered or exposed tops to the septic tank(s) or cesspool serving the subject residence. Within approximately 150 ft. radius of the source well there are 5 residences/trailers served by on-site sewage systems. There are 5 properties abutting or in fairly close proximity to a storm drainage system which is located at the intersection of Marlene Drive and Naomi Drive and extends easterly along the southern shoulder of Naomi Drive to a point of discharge to the inland wetland slightly west of the source well. Conditions were noted as follows:

1. #2 Naomi Drive Extension – sewage system located approx. 180-185 ft. from source well. Partially exposed/poorly covered septic tank cover.
2. #2 Naomi Drive – sewage system reportedly consisting of septic tank and “leach field” located approx. 145-150 ft. from source well. No overflow noted.
3. #4 Naomi Drive – sewage system reportedly consisting of septic tank and “leach field” located approx. 160-165 ft. from source well. Active sewage overflow from septic tank noted.
4. #20 Marlene Drive – sewage system potentially consisting of cesspool or septic tank

- and leaching pit located approx. 200-210 ft. from source well and 60 +/- ft. from inland wetland area adjacent to source well. Although no overflow noted, the cover to the cesspool or tank was of poor construction. Trailer was not occupied at time of inspection.
5. # 6 & 8 Naomi Drive – no indications of system failure or construction deficiency but sewage disposal system located approx. 35-40 +/- ft. from storm drainage system leading to inland wetland area near source well.

Based on the results of the sanitary survey, 3 properties were noted having either a sewage system failure or deficiency of construction. Measures will be instituted to provide correction of the noted conditions. In general, this area consists of small mobile home residences on lots of one-quarter acre, or less. The properties identified above, i.e. # 1-4, are typical to the area with site limitations of minimal available lot size, shallow ground water and/or proximity to wetlands. Sewage system repairs are often accomplished "as good as possible" for the conditions. If you have any questions concerning the above information, please contact me at 860-448-4882 ext 330.

Very truly yours,



George P. Calkins, R.S.
Senior Sanitarian

Cc: R. Johnson
F. Allyn, Mayor



Ledge Light
Health District

February 10, 2010

Mr. Gregory Teifert, Director
Ledyard Water & Sewer Department
741 Colonel Ledyard Highway
Ledyard, Conn. 06339

Re: FY2011 Appropriations Request
Extension of Water to Aljen Heights (Phase 1 and 2)

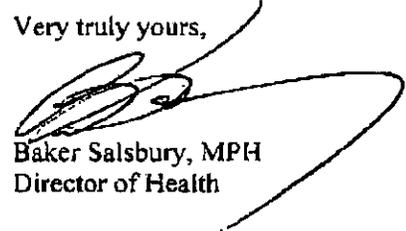
Dear Mr. Teifert:

By this letter, please note the Ledge Light Health District's endorsement of the above referenced project to extend public water supply to the Avery Hill Road and Aljen Heights area of the Town of Ledyard. This project would provide a safe, sanitary and adequate public supply of domestic water to approximately 360 single family dwellings and approximately 50 mobile homes within the projected service area. These dwellings are currently served by a combination of a small community water supply and private wells, with on-site subsurface sewage disposal systems located, generally, on individual lots consisting of one-quarter to one-third acres in size (10,000 – 15,000 sq. ft.).

The Ledge Light Health District (LLHD) is the jurisdictional health agency for the Town of Ledyard and is the responsible agency for regulatory matters concerning private water supply and wastewater disposal (sewage disposal systems) for the Town, and, specifically, for the projected service area. A file review of LLHD's records conducted by the applicant's consultant, revealed a sewage system failure/replacement rate of approximately 23% in the project service area, the majority of which occurred in the Aljen Heights Subdivision where lot sizes are approximately one-quarter acre with both well and on-site septic. The file review also documented a number of existing dwellings with issues of unacceptable or marginal water quality including elevated nitrogen concentrations, coliform bacteria or other nuisance conditions resulting in compromised domestic water supply. Extension of the public water supply to these Ledyard residents will ensure that they have a safe and adequate supply of domestic water and increase the available sewage system repair area on the small lots without compromising their water supply. On this basis, the Ledge Light Health District is in full support of the proposed water extension project.

If you should have any questions concerning the above, please contact me.

Very truly yours,


Baker Salsbury, MPH
Director of Health

Cc: F. Allyn, Mayor

943 North Road • Groton, Connecticut 06340 • Phone 860.448.4882 • Fax 860.448.4885 •

www.ledgelighthd.org

EcoScience Laboratory

house sale

490 Main Street
Norwich CT 06360

860-889-8104

30 Mar 99

99-156-D15

Lori Lozon
17 Crestview Drive
Gales Ferry CT 06335

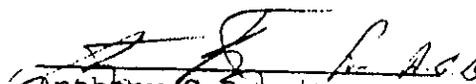
fax: 464-0419

Results of analyses on a sample of wellwater from the premises at 15 Hillcrest Avenue in Ledyard, CT, collected by the lab on 29 Mar 99:

	Result	Guideline
Nitrate	5.7* mgN/L	10

* Water with a nitrate content over 10 mgN/L may be poisonous to infants. Nursing mothers and infants under 1 year of age should not drink such water. Sources of nitrate contamination include runoff from farms or gardens and effluent from septic systems. Nitrate-free water can be produced using a reverse-osmosis filter or water-distiller. Large scale treatment for removal of nitrate is probably not feasible. You should monitor the nitrate content of this wellwater. You should check with local, regional, and/or state health officials concerning the health and safety implications of these results and any further testing that may be required.

If you have any questions, please call me at the lab.


Anthony G Benoit,
Director



EcoScience Laboratory

490 Main Street
Norwich CT 06360

860-889-8104

1 Jun 98

98-154-E28

house sale

Jim Weixel
253 Avery Hill Road
Ledyard CT 06339

Results of analyses on a sample of wellwater from the dug well at the above address, submitted by you on 29 Apr 98:

	Result	Guideline
Total Coliform bacteria by the <u>Standard</u> MF method.	28* in 100 ml	0
Fecal Coliform bacteria by EC medium.	Present* in 100 ml	Absent
Other bacteria growing on Endo medium at 35°C.	131 in 100 ml	--
pH	6.7	6.4-10.0
Hardness	93* mg/L as CaCO ₃	200
Chloride	5.0 mgCl/L	270
Sodium	5.0 mgNa/L	28
Nitrate	6.5** mgN/L	10
Nitrite	<0.01 mgN/L	1.0
Iron	0.06 mgFe/L	0.3
Manganese	<0.02 mgMn/L	0.05
Sulfate	17.6 mgSO ₄ /L	--
Turbidity	0.10 NTU	5.0
Color	0 Pt units	15
Odor	0	2

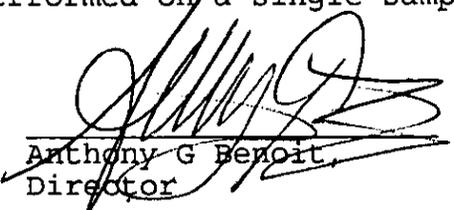
* Please see notes on the attached page.

** Water with a nitrate content over 10 mgN/L may be poisonous to infants. Nursing mothers and infants under 1 year of age should not drink such water. Sources of nitrate contamination include runoff from farms or gardens and effluent from septic systems. Nitrate-free water can be produced using a reverse-osmosis filter or water-distiller. Large scale treatment for removal of nitrate is probably not feasible. You should monitor the nitrate content of this wellwater. You should check with local, regional, and/or state health officials concerning the health and safety implications of these results and any further testing that may be required.

If you have any questions, please call me at the lab.

Results indicate that this water is NOT suitable for use as potable water to the extent that these tests performed on a single sample can so indicate. AGB




Anthony G Benoit
Director



EcoScience Laboratory

490 Main Street
Norwich, Connecticut 06360
(203) 889-8104

16 Nov 89

9954-L7

William Walsh
10 Aljen Avenue
Ledyard CT 06339

Results of analyses on a sample of wellwater from the premises at the above address, collected by Scott Harrington of Homes Plus, Inc., on 13 Nov 89.

Bacteriological Tests

Coliform bacteria by the Standard MF method.	0 in 100 ml
Other bacteria growing on Endo medium at 35°C.	0 in 100 ml

Sanitary Chemical Tests

pH	7.1
Alkalinity	24 mg/L as CaCO ₃
Hardness	79 mg/L as CaCO ₃
Chloride	13 mgCl/L
Nitrate	6.0 mgN/L
Ammonia	<0.02 mgN/L
Iron	0.12 mgFe/L

Sample does not foam when shaken.

Physical Tests

Turbidity	0.80 NTU
Color	<5 Pt units
Odor	none
Taste	none

This water has been tested and found to be within the applicable limits as set by the State Health Department.

Results indicate that this water is suitable for use as potable water to the extent that these tests performed on a single sample can so indicate. 18a

Herbert W. Pearson
Bldg. off. Ledyard ct.

Susan P. Axline
Susan P. Axline,
Chief Analyst



61 Louisa Viens Drive
Dayville, CT 06241
860-774-6814

Report To: Ledge Light Health District
943 North Road (Route 117)
P.O. Box 909
Groton, CT 06340

Source of Sample: 9 Arrowhead Drive
Ledyard, CT
Date of Collection: 7/6/2004
Date Received in Laboratory: 7/7/2004
Collected By: F. Radzvilowicz / cv

Copy To: Excel Home Inspection
Melissa Beyer

Laboratory ID: E407198-1

BACTERIOLOGICAL RESULTS

PARAMETER	RESULTS	UNITS	MCL	COMMENT
Total Coliform	0	col/100mL	0	

THE BACTERIOLOGICAL RESULTS ARE ACCEPTABLE FOR POTABILITY STANDARDS

CHEMICAL RESULTS

[CT GENERAL STATUTES HAVE ESTABLISHED PRIMARY MCL'S FOR THE FOLLOWING PARAMETERS]

PARAMETER	RESULTS	UNITS	MCL	COMMENT
Nitrite	ND	ppm	1.0	
Nitrate	5.7	ppm	10	
Chloride	22	ppm	250	

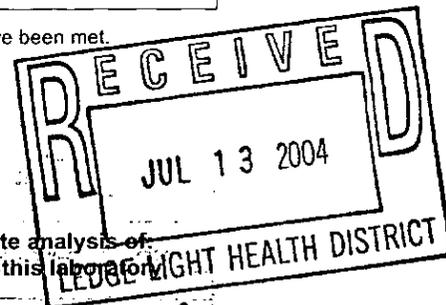
ALL OF THE ABOVE PARAMETERS MEET THE CT GENERAL STATUTES ESTABLISHED MCL'S FOR POTABILITY.

[CT GENERAL STATUTES HAVE NOT ESTABLISHED MCL'S FOR THE FOLLOWING PARAMETERS]

PARAMETER	RESULTS	UNITS	RL	COMMENT
pH	7.4	pH Units	6.4 to 10.0	
Color	0	Color Units	15	
Odor	0	Units	2	
Turbidity	0.33	NTU	5	
Iron	ND	ppm	0.3	
Manganese	ND	ppm	0.05	
Hardness	160	ppm	NE	
Sodium	11	ppm	28	
Sulfate	25	ppm	250	

THE ABOVE RESULTS ARE USED IN DETERMINING ASPECTS OF WATER SUCH AS STAINING. ALTHOUGH NO MCL'S ARE SET BY THE GENERAL STATUTE, THERE ARE RECOMMENDED LIMITS THAT ARE USED BY PUBLIC HEALTH OFFICIALS AND WATER TREATMENT SPECIALISTS IN THE INTERPRETATION OF WATER QUALITY.

COMMENTS: For the parameters listed on this page, all CT General Statute MCL's for Potability have been met.



KEY TO TERMS	
COL - colonies	MCL - Max Contamination Limit
mL - milliliter	RL - Recommended Limit
ppm - parts per million	ND - None Detected
NTU - Turbidity unit	NE - None Established
AL - Action Level	
cv - Certified Vendor for Premier Laboratory, LLC	
OUT - Out of range or exceeds limit	

Report is an accurate analysis of
Sample received at this laboratory for

B. Wank

Premier Laboratory, LLC 7/9/2004
Authorized Signature

Water Analysis Report

WATER SOURCE: 9 AROWHEAD DRIVE - LEDYARD, CT
NO TREATMENT, KITCHEN TAP

TO: KAISER, THOMAS
416 COW HILL ROAD
MYSTIC, CT 06355

DATE: 09/15/2002
TEST#: G0915202

BACTERIOLOGICAL EXAMINATION

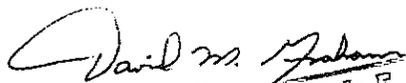
Total Coliforms Present _____ Absent X
Fecal Coliforms Present _____ Absent X

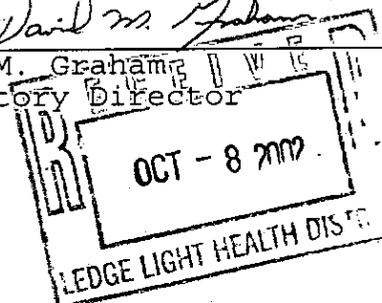
PHYSICAL/CHEMICAL EXAMINATION	<u>RESULT</u>	<u>AL</u>	<u>UNITS</u>
Turbidity	<u>0.3</u>	5.0	NTU
Color	<u>1</u>	15	---
Odor	<u>N.D.</u>	2	---
pH	<u>7.1</u>	6.4 - 10.0	---
Hardness	<u>154</u>	200	mg/L
Nitrate Nitrogen	<u>5.0</u>	10.0	mg/L
Nitrite Nitrogen	<u>N.D.</u>	1.00	mg/L
Sulfate	<u>21.5</u>	250.0	mg/L
Sodium	<u>11.3</u>	28.0	mg/L
Chloride	<u>23.1</u>	250.0	mg/L
Copper	<u>0.06</u>	1.30	mg/L
Iron	<u>N.D.</u>	0.30	mg/L
Manganese	<u>N.D.</u>	0.05	mg/L
Single Draw Lead	<u>N.D.</u>	0.015	mg/L

Sampled By: Joseph Raffone under the direction of Aquatek Labs.

AL = Advisory Level
N.D. = None Detected
* = exceeds AL, see attached sheet
✓ = below AL, see attached sheet

CT License #PH-0466


David M. Graham
Laboratory Director





131 BRADLEY ROAD • WOODBRIDGE, CT 06525

141 BOSTON POST ROAD • OLD SAYBROOK, CT 06475

Water Analysis Report

WATER SOURCE: 9 ARROWHEAD DRIVE - LEDYARD, CT
NO TREATMENT, BATH

TO: FIELDS, MARK
9 MARLA DRIVE
LEDYARD, CT 06339

DATE: 09/22/2006
TEST#: E0922609

BACTERIOLOGICAL EXAMINATION

Total Coliforms Present _____ Absent X
Fecal Coliforms Present _____ Absent X

PHYSICAL/CHEMICAL EXAMINATION	<u>RESULT</u>	<u>AL</u>	<u>UNITS</u>
Turbidity	<u>0.30</u>	5.0	NTU
Color	<u>1</u>	15	---
Odor	<u>N.D.</u>	2	---
pH	<u>7.3</u>	10.0 - 6.4	---
Calcium	<u>30.1</u>	None	mg/L
Magnesium	<u>14.3</u>	None	mg/L
Hardness	<u>133.9</u>	200	mg/L
Nitrate Nitrogen	<u>5.6</u>	10.0**	mg/L
Nitrite Nitrogen	<u>N.D.</u>	1.00**	mg/L
Sulfate	<u>20.4</u>	250.0	mg/L
Sodium	<u>11.0</u>	28.0	mg/L
Chloride	<u>21.6</u>	250.0	mg/L
Copper	<u>0.03</u>	1.30**	mg/L
Iron	<u>N.D.</u>	0.30	mg/L
Manganese	<u>N.D.</u>	0.05	mg/L

CONCLUSIONS: Based on the above results, this water was safe for drinking purposes at the time the sample was collected.

RECEIVED
OCT 11 2006
LIGH HD

Sampled By: Christine Linderberg under the direction of Aquatek Labs.
AL = Advisory Level = EPA Maximum Contaminant Level (MCL) or State enforceable standard when value followed by **.

N.D. = None Detected
* = exceeds AL, see attached sheet
✓ = below AL, see attached sheet

David M. Graham, Ph.D.
Laboratory Director

Water Analysis Report

WATER SOURCE: 9 ARROWHEAD DRIVE - LEDYARD, CT
NO TREATMENT, KITCHEN SINK

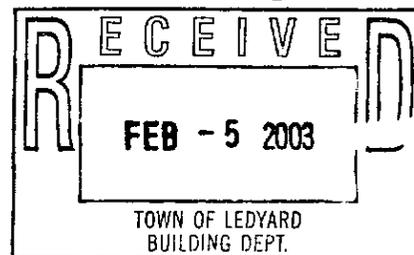
TO: SOUND HOME INSPECTION
P.O. BOX 393
MYSTIC, CT 06355

DATE: 12/20/2002
TEST#: E1220254

BACTERIOLOGICAL EXAMINATION

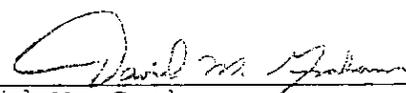
Total Coliforms	Present _____	Absent <u>X</u>
Fecal Coliforms	Present _____	Absent <u>X</u>

PHYSICAL/CHEMICAL EXAMINATION	<u>RESULT</u>	<u>AL</u>	<u>UNITS</u>
Turbidity	<u>0.2</u>	5.0	NTU
Color	<u>1</u>	15	---
Odor	<u>N.D.</u>	2	---
pH	<u>7.3</u>	10.0 - 6.4	---
Hardness	<u>153</u>	200	mg/L
Nitrate Nitrogen	<u>5.4</u>	10.0	mg/L
Nitrite Nitrogen	<u>N.D.</u>	1.00	mg/L
Sulfate	<u>22.4</u>	250.0	mg/L
Sodium	<u>11.3</u>	28.0	mg/L
Chloride	<u>22.9</u>	250.0	mg/L
Copper	<u>0.11</u>	1.30	mg/L
Iron	<u>N.D.</u>	0.30	mg/L
Manganese	<u>N.D.</u>	0.05	mg/L



Sampled By: Tom Morgan under the direction of Aquatek Labs.

AL = Advisory Level
N.D. = None Detected
* = exceeds AL, see attached sheet
√ = below AL, see attached sheet



David M. Graham
Laboratory Director

Water Analysis Report

WATER SOURCE: 9 BARN ROAD - GALES FERRY, CT

TO: McCRORY, NANCY
439 SIMSBURY ROAD
BLOOMFIELD, CT 06002

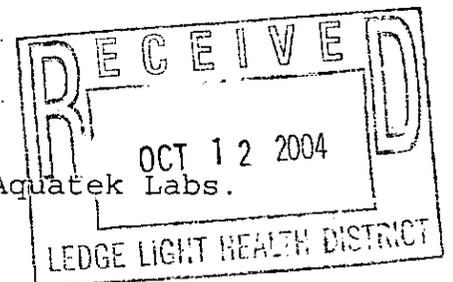
DATE: 08/31/2004
TEST#: B0831455

BACTERIOLOGICAL EXAMINATION

Total Coliforms Present Absent X
Fecal Coliforms Present Absent X

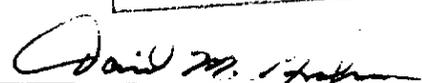
PHYSICAL/CHEMICAL EXAMINATION	RESULT	AL	UNITS
Turbidity	<u>0.2</u>	5.0	NTU
Color	<u>1</u>	15	---
Odor	<u>N.D.</u>	2	---
pH	<u>7.3</u>	10.0 - 6.4	---
Calcium	<u>29.8</u>	None	
Magnesium	<u>11.6</u>	None	
Hardness	<u>122.1</u>	200	mg/L
Nitrate Nitrogen	<u>7.4</u>	10.0	mg/L
Nitrite Nitrogen	<u>N.D.</u>	1.00	mg/L
Sulfate	<u>27.1</u>	250.0	mg/L
Sodium	<u>12.2</u>	28.0	mg/L
Chloride	<u>19.5</u>	250.0	mg/L
Copper	<u>0.04</u>	1.30	mg/L
Iron	<u>0.06</u>	0.30	mg/L
Manganese	<u>N.D.</u>	0.05	mg/L
Single Draw Lead	<u>0.005</u>	0.015	mg/L

CONCLUSIONS: Based on the above results, this water was safe for drinking purposes at the time the sample was collected.



Sampled By: Wayne Wildermuth under the direction of Aquatek Labs.

AL = Advisory Level
N.D. = None Detected
* = exceeds AL, see attached sheet
✓ = below AL, see attached sheet


David M. Graham, Ph.D.
Laboratory Director

THAMES TESTING LABORATORY, LLC

567 Vauxhall St. Ext, Suite 310

Waterford, Connecticut 06385

State of Connecticut License: PH0184

Phone: 860-443-3211 Fax: 860-437-3719

Report To: Randy Dalton/Town of Ledyard
741 Colonel Ledyard Hwy
Ledyard, CT 06339

Owner of Well: Robert Restivo
Location of Well: 9 Barn Rd
Ledyard, CT 06339

Purpose of Test: C. O. **Description of water:** Drilled Well **Treatment, if any:** None
Sampler: Tara Restivo **Date and Time Sampled:** 3/19/98 6:45 a. m. **Accession #:** 1155

Test	Results	MCL
<input type="checkbox"/> COLIFORM BACTERIA	Absent	Absent (MCL)
<input type="checkbox"/> COLOR-APPARENT	Less than 5 UNITS	15 UNITS (MCL)
<input type="checkbox"/> TURBIDITY	0.57 NTU	5 NTU (MCL)
<input type="checkbox"/> ODOR	None	2 (MCL)
<input type="checkbox"/> pH	7.7	6.4 - 10.0 (MCL)
<input type="checkbox"/> IRON	Less than 0.05 mg/L	0.3 mg/L (AL)
<input type="checkbox"/> MANGANESE	Less than 0.01 mg/L	0.05 mg/L (AL)
<input type="checkbox"/> SULFATE	28 mg/L	250 mg/L (AL)
<input type="checkbox"/> SODIUM	10.0 mg/L	28 mg/L (AL)
<input type="checkbox"/> CHLORIDE	16.1 mg/L	250.0 mg/L (MCL)
<input type="checkbox"/> NITRITE-NITROGEN	Less than 0.005 mg/L	1.0 mg/L (MCL)
<input type="checkbox"/> NITRATE-NITROGEN PLUS NITRITE-NITROGEN	10.5 mg/L	10 mg/L (MCL)
<input type="checkbox"/> HARDNESS (as CaCO ₃)	128.2 mg/L	200 mg/L (AL)

*MCL, or Maximum Contaminant Level, means the maximum permissible level of a biological or chemical substance in water for a private water supply system intended for domestic purposes (an MCL range for pH is defined). AL, or Advisory Level, is a level of a parameter that when exceeded makes the water undesirable for use.

Comments: All tested parameters, except nitrate, are in compliance with State of Connecticut guidelines for safe drinking water. Under current Connecticut regulations, because nitrate exceeds State MCL, the owner of well will have to test for synthetic organic chemicals (SOC's).


Laboratory Director

3/25/98
Date

RESULTS OF DRINKING WATER SUPPLY (19-13B101)

SAMPLE # 2063-10 CLIENT Gary Heyanka
 BILLING ADDRESS 130 Maple Ave., Uncasville, CT 06382
 OWNER OF SUPPLY Gary Heyanka LOCATION OF SUPPLY 5 Green Point Court, Ledyard, CT
 DATE & TIME OF SAMPLING 7/24/03 8:26 AM TYPE OF SAMPLE Grab-Tap-Untreated
 PERSON OBTAINING SAMPLE William J. O'Shaughnessy, EAL

PARAMETERS(S)	RESULTS	MAX. CONTAM. LEVEL ALLOWED	METHOD	DETECTION LIMIT
COLIFORM & SANITARY				
CHEMICALS				
Coliform Bacteria, M.F.	<u>absent</u> col/100 ml	None Present	9222A	
Residual Chlorine	<u>ND</u> mg/l	Absent	4500-CIG	0.1
Escherichia coli	col/100 ml	None Present	1105	
Nitrite-N	<u>0.01</u> mg/l	1.0 mg/l	4500-N02B	0.01
Nitrate-N / Nitrite-N	<u>5.8</u> mg/l	10.0 mg/l	4500-N03D	0.1
Chloride	<u>51</u> mg/l	250 mg/l	4500-Cl-B	1

- Test Results of this sample meet the current limits for Maximum Contaminant Levels, for the parameters performed.
 Test Results of this sample exceed the current limits for the Maximum Contaminant Levels, for the parameters performed.
 Maximum Contaminant Levels exceeded are indicated by (*).

PARAMETER(S)	RESULTS	OTHER RECOMMENDED LEVELS	METHOD	DETECTION LIMIT
PHYSICAL TESTS				
Color, Apparent	<u>0</u> Units	15 Standard Units	2120B	1
Odor	<u>0</u> Units	2	2150B	0
Turbidity	<u>0.80</u> Units	5 (NTU)	2130B	0.05
pH	<u>6.2**</u>	6.4 - 10.0 range	4500H-B	0.1

INORGANIC TESTS				
Hardness (CaCO ₃)	<u>83</u> mg/l	200 mg/l	130.2	5
Iron	<u>0.60**</u> mg/l	0.30 mg/l	3111B	0.01
Manganese	<u>0.04</u> mg/l	0.05 mg/l	3111B	0.01
Sodium	<u>26</u> mg/l	28 mg/l (Notification Level)	3111B	2
Sulfate	<u>11</u> mg/l	250 mg/l	4500 S04D	2
Ammonia Nitrogen	mg/l		4500-NH ₃ C	0.006
Copper	mg/l	1.3 mg/l (Advisory Level)	3111B	0.02
Fluoride	mg/l	4.0 mg/l	4500F-B	0.1
MBAS (Surfactants)	mg/l	0.5 mg/l	5540C	0.02
Lead	mg/l	0.015 mg/l (Advisory Level)	3113B	0.002
Total Dissolved Solids	mg/l	1000 mg/l	160.1	10

ORGANICS				
Volatile Compounds	mg/l		524.2	0.0005

N.D. - NONE DETECTED

**Test results exceed other levels recommended by CT or local health departments.

David M Kirpas



61 Louisa Viens Drive
Dayville, CT 06241
860-774-6814

Report To: Director of Health
Ledge Light Health District
943 North Road, P.O Box 909
Groton, CT 06340

Source of Sample: 10 Hillcrest Ave.
Ledyard, CT

Date of Collection: 3/29/2004
Date Received in Laboratory: 3/29/2004
Collected By: Chris Ulion / cv

Copy To: Salvatore Degiacomo

Laboratory ID: E403C80-1

BACTERIOLOGICAL RESULTS

PARAMETER	RESULTS	UNITS	MCL	COMMENT
Total Coliform	0	col/100mL	0	
THE BACTERIOLOGICAL RESULTS ARE ACCEPTABLE FOR POTABILITY STANDARDS				

CHEMICAL RESULTS

[CT GENERAL STATUTES HAVE ESTABLISHED PRIMARY MCL'S FOR THE FOLLOWING PARAMETERS]

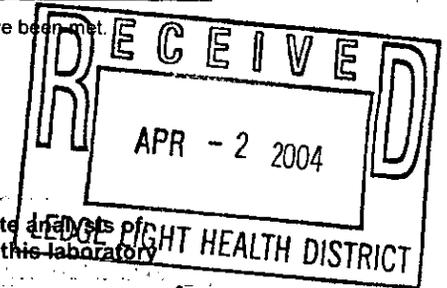
PARAMETER	RESULTS	UNITS	MCL	COMMENT
Nitrite	ND	ppm	1.0	
Nitrate	7.9	ppm	10	
Chloride	14	ppm	250	
ALL OF THE ABOVE PARAMETERS MEET THE CT GENERAL STATUTES ESTABLISHED MCL'S FOR POTABILITY.				

[CT GENERAL STATUTES HAVE NOT ESTABLISHED MCL'S FOR THE FOLLOWING PARAMETERS]

PARAMETER	RESULTS	UNITS	RL	COMMENT
pH	8.0	pH Units	6.4 to 10.0	
Color	10	Color Units	15	
Odor	0	Units	2	
Turbidity	2.8	NTU	5	
Iron	0.22	ppm	0.3	
Manganese	ND	ppm	0.05	
Hardness	76	ppm	NE	
Sodium	8.2	ppm	28	
Sulfate	18	ppm	250	

THE ABOVE RESULTS ARE USED IN DETERMINING ASPECTS OF WATER SUCH AS STAINING. ALTHOUGH NO MCL'S ARE SET BY THE GENERAL STATUTE, THERE ARE RECOMMENDED LIMITS THAT ARE USED BY PUBLIC HEALTH OFFICIALS AND WATER TREATMENT SPECIALISTS IN THE INTERPRETATION OF WATER QUALITY.

COMMENTS: For the parameters listed on this page, all CT General Statute MCL's for Potability have been met.



KEY TO TERMS

COL - colonies
mL - milliliter
ppm - parts per million
NTU - Turbidity unit
AL - Action Level
cv - Certified Vendor for Premier Laboratory, LLC
OUT - Out of range or exceeds limit

MCL - Max Contamination Limit
RL - Recommended Limit
ND - None Detected
NE - None Established

Report is an accurate analysis of
Sample received at this laboratory

B. Wain

Premier Laboratory, LLC 3/31/2004
Authorized Signature



61 Louisa Viens Drive
Dayville, CT 06241
860-774-6814

Attn: Director of Health
Report To: Director of Health
Ledge Light Health District
943 North Road, P.O Box 909
Groton, CT 06340

Source of Sample: 10 Hillcrest Avenue
Ledyard, CT
Date of Collection: 7/7/2006
Date Received in Laboratory: 7/7/2006
Collected By: Jennifer Guay / cv

Copy To: Sherry Lee

Laboratory ID: E607215-1

BACTERIOLOGICAL RESULTS

PARAMETER	RESULTS	UNITS	MCL	COMMENT
Total Coliform	15	col/100mL	0	OUT

THE BACTERIOLOGICAL RESULTS ARE **NOT** ACCEPTABLE FOR POTABILITY STANDARDS

CHEMICAL RESULTS

[CT GENERAL STATUTES HAVE ESTABLISHED PRIMARY MCL'S FOR THE FOLLOWING PARAMETERS]

PARAMETER	RESULTS	UNITS	MCL	COMMENT
Nitrite	0.04	ppm	1.0	
Nitrate	7.6	ppm	10	
Chloride	18	ppm	250	

ALL OF THE ABOVE PARAMETERS MEET THE CT GENERAL STATUTES ESTABLISHED MCL'S FOR POTABILITY.

[CT GENERAL STATUTES HAVE NOT ESTABLISHED MCL'S FOR THE FOLLOWING PARAMETERS]

PARAMETER	RESULTS	UNITS	RL	COMMENT
pH	6.9	pH Units	6.4 to 10.0	
Color	0	Color Units	15	
Odor	0	Units	2	
Turbidity	0.48	NTU	5	
Iron	ND	ppm	0.3	
Manganese	ND	ppm	0.05	
Hardness	83	ppm	NE	
Sodium	10	ppm	28	
Sulfate	19	ppm	250	

THE ABOVE RESULTS ARE USED IN DETERMINING ASPECTS OF WATER SUCH AS STAINING. ALTHOUGH NO MCL'S ARE SET BY THE GENERAL STATUTE, THERE ARE RECOMMENDED LIMITS THAT ARE USED BY PUBLIC HEALTH OFFICIALS AND WATER TREATMENT SPECIALISTS IN THE INTERPRETATION OF WATER QUALITY.

COMMENTS: Total Coliform exceeds the established MCL(s). This water does not meet potability standards for Bacteria. You should notify your Public Health Official for interpretation and instructions. A Water Treatment Specialist may be consulted for possible treatment.

RECEIVED
JUL 13 2006

— KEY TO TERMS

COL - colonies	MCL - Max Contamination Limit
mL - milliliter	RL - Recommended Limit
ppm - parts per million	ND - None Detected
NTU - Turbidity unit	NE - None Established
AL - Action Level	
cv - Certified Vendor for Premier Laboratory, LLC	
OUT - Out of range or exceeds limit	

Report is an accurate analysis of:
Sample received at this laboratory -

B. Wank

Premier Laboratory, LLC 7/11/2006
Authorized Signature



61 Louisa Viens Drive
Dayville, CT 06241
860-774-6814

Report To: Director of Health
Ledge Light Health District
943 North Road, P.O Box 909
Groton, CT 06340

Source of Sample: 10 Hillcrest Avenue
Ledyard, CT
Date of Collection: 7/25/2005
Date Received in Laboratory: 7/25/2005
Collected By: Jennifer Guay / cv

Copy To: Beth Cristofori

Laboratory ID: E507A50-1

BACTERIOLOGICAL RESULTS

PARAMETER	RESULTS	UNITS	MCL	COMMENT
Total Coliform	0	col/100mL	0	
THE BACTERIOLOGICAL RESULTS ARE ACCEPTABLE FOR POTABILITY STANDARDS				

CHEMICAL RESULTS

[CT GENERAL STATUTES HAVE ESTABLISHED PRIMARY MCL'S FOR THE FOLLOWING PARAMETERS]

PARAMETER	RESULTS	UNITS	MCL	COMMENT
Nitrite	ND	ppm	1.0	
Nitrate	11	ppm	10	OUT
Chloride	17	ppm	250	

THE ABOVE PARAMETERS MARKED "OUT" ARE OUT OF RANGE OF CT ESTABLISHED MCL'S. THESE RESULTS SHOULD BE INTERPRETED BY YOUR LOCAL HEALTH OFFICIAL FOR DETERMINATION OF POTABILITY.

[CT GENERAL STATUTES HAVE NOT ESTABLISHED MCL'S FOR THE FOLLOWING PARAMETERS]

PARAMETER	RESULTS	UNITS	RL	COMMENT
pH	8.1	pH Units	6.4 to 10.0	
Color	0	Color Units	15	
Odor	0	Units	2	
Turbidity	0.45	NTU	5	
Iron	ND	ppm	0.3	
Manganese	ND	ppm	0.05	
Hardness	96	ppm	NE	
Sodium	9.6	ppm	28	
Sulfate	18	ppm	250	

THE ABOVE RESULTS ARE USED IN DETERMINING ASPECTS OF WATER SUCH AS STAINING. ALTHOUGH NO MCL'S ARE SET BY THE GENERAL STATUTE, THERE ARE RECOMMENDED LIMITS THAT ARE USED BY PUBLIC HEALTH OFFICIALS AND WATER TREATMENT SPECIALISTS IN THE INTERPRETATION OF WATER QUALITY.

COMMENTS: Nitrate exceeds the established MCL(s). You should notify your Public Health Official for interpretation and instructions. A Water Treatment Specialist may be consulted for possible treatment.

JUL 29 2005

KEY TO TERMS

COL - colonies
mL - milliliter
ppm - parts per million
NTU - Turbidity unit
AL - Action Level
cv - Certified Vendor for Premier Laboratory, LLC
OUT - Out of range or exceeds limit

MCL - Max Contamination Limit
RL - Recommended Limit
ND - None Detected
NE - None Established

Report is an accurate analysis of:
Sample received at this laboratory

B. Wain

Premier Laboratory, LLC 7/27/2005
Authorized Signature



61 Louisa Viens Drive
Dayville, CT 06241
860-774-6814

Report To: Ledge Light Health District
943 North Road (Route 117)
P.O. Box 909
Groton, CT 06340

Source of Sample: 13 Hillcrest Avenue
Ledyard, CT
Date of Collection: 3/8/2006
Date Received in Laboratory: 3/9/2006
Collected By: Joe Leporati / cv

Copy To: HouseMaster Review Copy

Laboratory ID: E603485-1

BACTERIOLOGICAL RESULTS

PARAMETER	RESULTS	UNITS	MCL	COMMENT
Total Coliform	0	col/100mL	0	
THE BACTERIOLOGICAL RESULTS ARE ACCEPTABLE FOR POTABILITY STANDARDS				

CHEMICAL RESULTS

[CT GENERAL STATUTES HAVE ESTABLISHED PRIMARY MCL'S FOR THE FOLLOWING PARAMETERS]

PARAMETER	RESULTS	UNITS	MCL	COMMENT
Nitrite	ND	ppm	1.0	
Nitrate	10	ppm	10	
Chloride	22	ppm	250	
ALL OF THE ABOVE PARAMETERS MEET THE CT GENERAL STATUTES ESTABLISHED MCL'S FOR POTABILITY.				

[CT GENERAL STATUTES HAVE NOT ESTABLISHED MCL'S FOR THE FOLLOWING PARAMETERS]

PARAMETER	RESULTS	UNITS	RL	COMMENT
pH	8.0	pH Units	6.4 to 10.0	
Color	10	Color Units	15	
Odor	0	Units	2	
Turbidity	3.6	NTU	5	
Iron	0.31	ppm	0.3	OUT
Manganese	ND	ppm	0.05	
Hardness	120	ppm	NE	
Sodium	10	ppm	28	
Sulfate	22	ppm	250	

THE ABOVE RESULTS ARE USED IN DETERMINING ASPECTS OF WATER SUCH AS STAINING. ALTHOUGH NO MCL'S ARE SET BY THE GENERAL STATUTE, THERE ARE RECOMMENDED LIMITS THAT ARE USED BY PUBLIC HEALTH OFFICIALS AND WATER TREATMENT SPECIALISTS IN THE INTERPRETATION OF WATER QUALITY.

COMMENTS: Iron exceeds Recommended Limits. A Water Treatment Specialist may be consulted for possible treatment.

KEY TO TERMS

COL - colonies
mL - milliliter
ppm - parts per million
NTU - Turbidity unit
AL - Action Level
cv - Certified Vendor for Premier Laboratory, LLC
OUT - Out of range or exceeds limit

MCL - Max Contamination Limit
RL - Recommended Limit
ND - None Detected
NE - None Established

Report is an accurate analysis of:
Sample received at this laboratory

B. Wauk

Premier Laboratory, LLC 3/13/2006
Authorized Signature

MAR 15 2006



Aquatek Labs

PROPERTY SALE

Water Analysis Report

WATER SOURCE: 15 HILLCREST AVENUE - LEDYARD, CT
NO TREATMENT, KITCHEN TAP

TO: HOWARD, JOHN
714B TWEADY COURT
COLTS NECK, NJ 07722

DATE: 03/22/99
TEST#: A0322917

BACTERIOLOGICAL EXAMINATION

Total Coliforms Present _____ Absent X

Fecal Coliforms Present _____ Absent X

CONCLUSIONS: Based on the bacteriological examination, this water was safe for drinking purposes (potable) at the time the sample was collected.

PHYSICAL/CHEMICAL EXAMINATION	RESULT	AL	UNITS
Turbidity	<u>0.6</u>	5.0	NTU
Color	<u>5</u>	15	---
Odor	<u>N.D.</u>	2	---
pH	<u>7.9</u>	6.4 - 10.0	---
Hardness	<u>132</u>	200	mg/L
* Nitrate Nitrogen	<u>12.9</u>	10.0	mg/L
Nitrite Nitrogen	<u>N.D.</u>	1.00	mg/L
Sulfate	<u>20</u>	250.0	mg/L
Sodium	<u>11.8</u>	28.0	mg/L
Chloride	<u>20.6</u>	250.0	mg/L
Copper	<u>.03</u>	1.30	mg/L
Iron	<u>.07</u>	0.30	mg/L
Manganese	<u>N.D.</u>	0.05	mg/L

Sampled By: Alan Williams under the direction of Aquatek Labs.

AL = Advisory Level

N.D. = None Detected

* = exceeds AL, see attached sheet

✓ = below AL, see attached sheet

Laura L. Apinis
Laboratory Director

CT License #PH-0466

☐ 131 BRADLEY ROAD • WOODBRIDGE, CONNECTICUT 06525 • (203) 389-1824
☐ 141 BOSTON POST ROAD • OLD SAYBROOK, CONNECTICUT 06475 • (860) 388-1903

STATE OF CONNECTICUT PUBLIC HEALTH LABORATORY PH 0465
 U.S.D.A. APPROVED LABORATORY
EASTERN AQUANALYSIS
 Div. of Eastern Scientific Associates, Inc.
 P.O. Box 700
 BROOKLYN, CONNECTICUT 06234
 Telephone: (203)774-6814
 Toll free in Connecticut 1-800-932-1150

REPORT CHARLES MCCORMICK
 TO: 25 HILLCREST
 LEDYARD, CT 06339

SOURCE OF 25 HILLCREST
 SAMPLE: LEDYARD, CT

COPY BOYER AGENCY
 TO: P.O. BOX 374
 GALES FERRY, CT 06335

SAMPLE#: 60107950
 REASON FOR EXAM: CHFA/ VA MORTGAGE
 TYPE OF SUPPLY: DRILLED

TREATMENT: NONE
 DATE/TIME COLLECTED: 01-08-86 / 1230

TELEPHONE:

PHYSICAL CHARACTERISTICS:

Color 5	units
Odor 0	units
Turbidity 0.3	NTU

This table of recommended limits may be considered as a guideline for the Director of Health in interpreting a well water analysis.

CHEMICAL CHARACTERISTICS:

Ammonia Nitrogen LESS THAN 0.02	ppm
Nitrate plus	
Nitrite Nitrogen 12.6	ppm
Chlorides 40	ppm
pH 6.4	
MBAS LESS THAN 0.1	ppm

RECOMMENDED LIMITS

Color: 15 units - if over 30 removal treatment should be provided.
 Turbidity: 5 NTU - iron and manganese should be tested when over 5 NTU.
 Odor: 2 units or less.
 Ammonia Nitrogen: 0.05 ppm.
 Nitrate plus
 Nitrite Nitrogen: 10 ppm.
 Chlorides: 250 ppm - sodium should be tested if over 30 ppm.
 pH: 6.4 to 8.6
 MBAS: 0.5 ppm.
 Sodium: 20 ppm - if over 20 ppm the consumer must be informed.
 Iron: 0.3 ppm.
 Manganese: 0.05 ppm.
 Hardness: 150 ppm.

ADDITIONAL TESTS

(If Required or Requested)

Iron LESS THAN 0.1	ppm
Hardness 74	ppm
SODIUM 24	ppm
	ppm
	ppm

Bacteriological Quality:

Total Coliform 7 Col / 100ML
 Acceptable Limit:
 0 or 1 colony per 100 ML
 Sample was NOT within limits for potability.

COMMENTS:

NITRATE + NITRITE NITROGEN AND SODIUM EXCEEDS DESIRABLE LIMITS. BACTERIA EXCEEDS ACCEPTABLE LIMITS.

Certified sample taken by lab personnel. REPORT IS AN ACCURATE ANALYSIS OF
 Verified by: SAMPLE RECEIVED IN THIS LABORATORY



131 Bradley Road - Woodbridge, CT 06525

Water Analysis Report

WATER SOURCE: 5 LOUIS AVENUE - LEDYARD, CT
NO TREATMENT, KITCHEN SINK

TO: SNYDER, MATTHEW
136 HICKORY STREET
GROTON, CT 06371

DATE: 02/13/2009
TEST#: E0213940

BACTERIOLOGICAL EXAMINATION

Total Coliforms	Present _____	Absent <u>X</u>
Fecal Coliforms	Present _____	Absent <u>X</u>

PHYSICAL/CHEMICAL EXAMINATION

	<u>RESULT</u>	<u>AL</u>	<u>UNITS</u>
Turbidity	<u>1.1</u>	5.0	NTU
Color	<u>10</u>	15	---
Odor	<u>N.D.</u>	2	---
pH	<u>7.8</u>	10.0 - 6.4	---
Calcium	<u>53.9</u>	None	mg/L
Magnesium	<u>9.5</u>	None	mg/L
Hardness	<u>173.7</u>	200	mg/L
Nitrate Nitrogen	<u>8.2</u>	10.0**	mg/L
Nitrite Nitrogen	<u>N.D.</u>	1.00**	mg/L
Sulfate	<u>16.7</u>	250.0	mg/L
Sodium	<u>13.6</u>	28.0	mg/L
Chloride	<u>35.3</u>	250.0	mg/L
Copper	<u>N.D.</u>	1.30**	mg/L
Iron	<u>N.D.</u>	0.30	mg/L
Manganese	<u>N.D.</u>	0.05	mg/L

CONCLUSIONS: Based on the above results, this water was safe for drinking purposes at the time the sample was collected.

Sampled By: Richard Taylor under the direction of Aquatek Labs.

AL = Advisory Level = EPA Maximum Contaminant Level (MCL) or State enforceable standard when value followed by **.

N.D. = None Detected

* = exceeds AL, see attached sheet

✓ = below AL, see attached sheet

David M. Graham, Ph.D.
Laboratory Director

CT License #PH-0466



61 Louisa Viens Drive
Dayville, CT 06241
860-774-6814

Attn: Albert Gosselin
Report To: Ledge Light Health District
943 North Road (Route 117)
P.O. Box 909
Groton, CT 06340

Source of Sample: 5 Louis Avenue
Ledyard, CT
Date of Collection: 4/27/2005
Date Received in Laboratory: 4/27/2005
Collected By: John Bernier / cv

Copy To: Bernier Associates
Aimee Dean

Laboratory ID: E504B60-1

BACTERIOLOGICAL RESULTS				
<u>PARAMETER</u>	<u>RESULTS</u>	<u>UNITS</u>	<u>MCL</u>	<u>COMMENT</u>
Total Coliform	0	col/100mL	0	
THE BACTERIOLOGICAL RESULTS ARE ACCEPTABLE FOR POTABILITY STANDARDS				

CHEMICAL RESULTS [CT GENERAL STATUTES HAVE ESTABLISHED PRIMARY MCL'S FOR THE FOLLOWING PARAMETERS]				
<u>PARAMETER</u>	<u>RESULTS</u>	<u>UNITS</u>	<u>MCL</u>	<u>COMMENT</u>
Nitrite	ND	ppm	1.0	
Nitrate	7.6	ppm	10	
Chloride	31	ppm	250	
ALL OF THE ABOVE PARAMETERS MEET THE CT GENERAL STATUTES ESTABLISHED MCL'S FOR POTABILITY.				

[CT GENERAL STATUTES HAVE NOT ESTABLISHED MCL'S FOR THE FOLLOWING PARAMETERS]				
<u>PARAMETER</u>	<u>RESULTS</u>	<u>UNITS</u>	<u>RL</u>	<u>COMMENT</u>
pH	7.3	pH Units	6.4 to 10.0	
Color	0	Color Units	15	
Odor	0	Units	2	
Turbidity	0.40	NTU	5	
Iron	ND	ppm	0.3	
Manganese	ND	ppm	0.05	
Hardness	130	ppm	NE	
Sodium	11	ppm	28	
Sulfate	20	ppm	250	
THE ABOVE RESULTS ARE USED IN DETERMINING ASPECTS OF WATER SUCH AS STAINING. ALTHOUGH NO MCL'S ARE SET BY THE GENERAL STATUTE, THERE ARE RECOMMENDED LIMITS THAT ARE USED BY PUBLIC HEALTH OFFICIALS AND WATER TREATMENT SPECIALISTS IN THE INTERPRETATION OF WATER QUALITY.				

COMMENTS: For the parameters listed on this page, all CT General Statute MCL's for Potability have been met.

MAY - 3 2005

KEY TO TERMS	
COL - colonies	MCL - Max Contamination Limit
mL - milliliter	RL - Recommended Limit
ppm - parts per million	ND - None Detected
NTU - Turbidity unit	NE - None Established
AL - Action Level	
cv - Certified Vendor for Premier Laboratory, LLC	
OUT - Out of range or exceeds limit	

Report is an accurate analysis of:
Sample received at this laboratory

Premier Laboratory, LLC 4/29/2005
Authorized Signature



61 Louisa Viens Drive
Dayville, CT 06241
860-774-6814

Attn: Director of Health
Report To: Ledyard Health Dept.
741 Col. Ledyard Highway
Ledyard, CT 06339

Source of Sample: 8 Louis Avenue
Ledyard, CT
Date of Collection: 10/29/2001
Date Received in Laboratory: 10/30/2001
Collected By: F. Radzvilowicz / cv

Copy To: Excel Home Inspection, LLC
Dominick Marci

Laboratory ID: E110D33-1

BACTERIOLOGICAL RESULTS				
PARAMETER	RESULTS	UNITS	MCL	COMMENT
Total Coliform	0	col/100mL	0	
THE BACTERIOLOGICAL RESULTS ARE ACCEPTABLE FOR POTABILITY STANDARDS				

CHEMICAL RESULTS				
[CT GENERAL STATUTES HAVE ESTABLISHED PRIMARY MCL'S FOR THE FOLLOWING PARAMETERS]				
PARAMETER	RESULTS	UNITS	MCL	COMMENT
Nitrite	ND	ppm	1.0	
Nitrate	16	ppm	10	OUT
Chloride	19	ppm	250	
THE ABOVE PARAMETERS MARKED "OUT" ARE OUT OF RANGE OF CT ESTABLISHED MCL'S. THESE RESULTS SHOULD BE INTERPRETED BY YOUR LOCAL HEALTH OFFICIAL FOR DETERMINATION OF POTABILITY.				

[CT GENERAL STATUTES HAVE NOT ESTABLISHED MCL'S FOR THE FOLLOWING PARAMETERS]				
PARAMETER	RESULTS	UNITS	RL	COMMENT
pH	7.0	pH Units	6.4 to 10.0	
Color	0	Color Units	15	
Odor	0	Units	2	
Turbidity	0.98	NTU	5	
Iron	ND	ppm	0.3	
Manganese	ND	ppm	0.05	
Hardness	100	ppm	NE	
Sodium	9.7	ppm	NE	
Sulfate	23	ppm	250	
THE ABOVE RESULTS ARE USED IN DETERMINING ASPECTS OF WATER SUCH AS STAINING. ALTHOUGH NO MCL'S ARE SET BY THE GENERAL STATUTE, THERE ARE RECOMMENDED LIMITS THAT ARE USED BY PUBLIC HEALTH OFFICIALS AND WATER TREATMENT SPECIALISTS IN THE INTERPRETATION OF WATER QUALITY.				

COMMENTS: Nitrate exceeds the established MCL(s). You should notify your Public Health Official for interpretation and instructions. A Water Treatment Specialist may be consulted for possible treatment.

KEY TO TERMS	
COL - colonies	MCL - Max Contamination Limit
mL - milliliter	RL - Recommended Limit
ppm - parts per million	ND - None Detected
NTU - Turbidity unit	NE - None Established
AL - Action Level	
cv - Certified Vendor for Premier Laboratory, LLC	
OUT - Out of range or exceeds limit	

Report is an accurate analysis of:
Sample received at this laboratory

Kirsten Blanchard
Premier Laboratory, LLC 11/2/2001
Authorized Signature

STATE OF CONNECTICUT PUBLIC HEALTH LABORATORY PH 0465
 U.S.D.A. APPROVED LABORATORY
EASTERN AQUANALYSIS
 Div. of Eastern Scientific Associates, Inc.
 P.O. Box 700
 BROOKLYN, CONNECTICUT 06234
 Telephone: (203)774-6814
 Toll free in Connecticut 1-800-932-1150

REPORT LEIGHTON REALTY
 TO: 1553 Rte. 12
 Gales Ferry, 06335

SOURCE OF 10 LOUIS AVE
 SAMPLE: LEUYARD, CT

COPY LEIGHTON REALTY
 TO: 1553 Rte. 12
 Gales Ferry, CT 06335

SAMPLE#: M2180745
 REASON FOR EXAM: VA
 TYPE OF SUPPLY: DRILLED WELL

TELEPHONE: 464-667

TREATMENT: NONE
 DATE/TIME COLLECTED: 12/6/82 / 5:45

PHYSICAL CHARACTERISTICS:

Color 5	units
Odor 0	units
Turbidity 0.9	NTU

This table of recommended limits may be considered as a guideline for the Director of Health in interpreting a well water analysis.

CHEMICAL CHARACTERISTICS:

Ammonia Nitrogen LESS THAN 0.02	ppm
Nitrate plus	
Nitrite Nitrogen 5.5	ppm
Chlorides 11	ppm
pH 7.5	
MBAS LESS THAN 0.1	ppm

RECOMMENDED LIMITS

Color: 15 units - if over 30 removal treatment should be provided.
 Turbidity: 5 NTU - iron and manganese should be tested when over 5 NTU.

ADDITIONAL TESTS

(If Required or Requested)

Iron LESS THAN 0.1	ppm
Hardness 48	ppm
	ppm
	ppm

Odor: 2 units or less.
 Ammonia Nitrogen: 0.05 ppm.
 Nitrate plus
 Nitrite Nitrogen: 10 ppm.
 Chlorides: 250 ppm - sodium should be tested if over 30 ppm.
 pH: 6.4 to 8.6
 MBAS: 0.5 ppm.
 Sodium: 20 ppm - if over 20 ppm the consumer must be informed.
 Iron: 0.3 ppm.
 Manganese: 0.05 ppm.
 Hardness: 150 ppm.

Bacteriological Quality:

Total Coliform 0 Col / 100ML
 Acceptable Limit:
 0 or 1 colony per 100 ML
 Sample was within limits for potability.

COMMENTS:

Certified sample taken by lab personnel. REPORT IS AN ACCURATE ANALYSIS OF
 Verified by: SAMPLE RECEIVED IN THIS LABORATORY

P. RUSCONI

Herbert W. Pearson
Lab. off.

T. F. McCommas 12/8/82
 T.F. McCommas, Director Date



61 Louisa Viens Drive
Dayville, CT 06241
860-774-6814

Attn: Director of Health
Report To: Ledge Light Health District
943 North Road (Route 117)
P.O. Box 909
Groton, CT 06340

Source of Sample: 13 Michael Lane
Ledyard, CT
Date of Collection: 10/30/2006
Date Received in Laboratory: 10/30/2006
Collected By: Earl Semmelrock / cv

Copy To: Laframboise Well Drilling

Laboratory ID: E610G57-1

BACTERIOLOGICAL RESULTS

PARAMETER	RESULTS	UNITS	MCL	COMMENT
Total Coliform	0	col/100mL	0	

THE BACTERIOLOGICAL RESULTS ARE ACCEPTABLE FOR POTABILITY STANDARDS

CHEMICAL RESULTS

[CT GENERAL STATUTES HAVE ESTABLISHED PRIMARY MCL'S FOR THE FOLLOWING PARAMETERS]

PARAMETER	RESULTS	UNITS	MCL	COMMENT
Nitrite	0.054	ppm	1.0	
Nitrate	6.3	ppm	10	
Chloride	54	ppm	250	

ALL OF THE ABOVE PARAMETERS MEET THE CT GENERAL STATUTES ESTABLISHED MCL'S FOR POTABILITY.

[CT GENERAL STATUTES HAVE NOT ESTABLISHED MCL'S FOR THE FOLLOWING PARAMETERS]

PARAMETER	RESULTS	UNITS	RL	COMMENT
pH	7.7	pH Units	6.4 to 10.0	
Color	50	Color Units	15	OUT
Odor	0	Units	2	
Turbidity	49	NTU	5	OUT
Iron	8.8	ppm	0.3	OUT
Manganese	0.11	ppm	0.05	OUT
Hardness	180	ppm	NE	
Sodium	12	ppm	28	
Sulfate	19	ppm	250	

*THE ABOVE RESULTS ARE USED IN DETERMINING ASPECTS OF WATER SUCH AS STAINING. ALTHOUGH NO MCL'S ARE SET BY THE GENERAL STATUTE, THERE ARE RECOMMENDED LIMITS THAT ARE USED BY PUBLIC HEALTH OFFICIALS AND WATER TREATMENT SPECIALISTS IN THE INTERPRETATION OF WATER QUALITY.

COMMENTS: Color, Turbidity, Iron and Manganese exceeds Recommended Limits. A Water Treatment Specialist may be consulted for possible treatment.

KEY TO TERMS

COL - colonies
mL - milliliter
ppm - parts per million
NTU - Turbidity-unit
AL - Action Level
cv - Certified Vendor for Premier Laboratory, LLC
OUT - Out of range or exceeds limit

MCL - Max Contamination Limit
RL - Recommended Limit
ND - None Detected
NE - None Established

Report is an accurate analysis of:
Sample received at this laboratory

B. Wain

Premier Laboratory, LLC
Authorized Signature

11/1/2006

NOV - 6 2006

LEDGE LIGHT HD

STATE OF CONNECTICUT PUBLIC HEALTH LABORATORY PH 0465
U.S.D.A. APPROVED LABORATORY
EASTERN AQUANALYSIS
Div. of Eastern Scientific Associates, Inc.
P.O. Box 700
BROOKLYN, CONNECTICUT 06234
Telephone: (203)774-6814
Toll free in Connecticut 1-800-932-1150

REPORT KLAUS BAERNTHALER
TO: 17 MICHAEL LANE
LEDYARD, CT 06339

SOURCE OF 17 MICHAEL LANE
SAMPLE: LEDYARD, CT

COPY MCCUE MORTGAGE CO.
TO: PO BOX 1000
NEW BRITAIN, CT 06050

SAMPLE#: F3168-00
REASON FOR EXAM: VA
TYPE OF SUPPLY: DRILLED WELL

TELEPHONE: 464-8089

TREATMENT: IRON FILTER
DATE/TIME COLLECTED: 6/14/83 / 10:00

PHYSICAL CHARACTERISTICS:

Color 5	units
Odor 0	units
Turbidity 0.6	NTU

This table of recommended limits may be considered as a guideline for the Director of Health in interpreting a well water analysis.

CHEMICAL CHARACTERISTICS:

Ammonia Nitrogen LESS THAN 0.02	ppm
Nitrate plus	
Nitrite Nitrogen 5.0	ppm
Chlorides 18	ppm
pH 9.6	
MBAS LESS THAN 0.1	ppm

RECOMMENDED LIMITS

Color: 15 units - if over 30 removal treatment should be provided.
Turbidity: 5 NTU - iron and manganese should be tested when over 5 NTU.

ADDITIONAL TESTS

(If Required or Requested)

Iron LESS THAN 0.1	ppm
Hardness 96	ppm
	ppm
	ppm
	ppm

Odor: 2 units or less.
Ammonia Nitrogen: 0.05 ppm.
Nitrate plus
Nitrite Nitrogen: 10 ppm.
Chlorides: 250 ppm - sodium should be tested if over 30 ppm.
pH: 6.4 to 8.6
MBAS: 0.5 ppm.
Sodium: 20 ppm - if over 20 ppm the consumer must be informed.

Bacteriological Quality:

Total Coliform 0 Col / 100ML
Acceptable Limit:
0 or 1 colony per 100 ML
Sample was within limits for potability.

Iron: 0.3 ppm.
Manganese: 0.05 ppm.
Hardness: 150 ppm.

COMMENTS:

Herbert W. Pearson Jr.
Bldg. off. Ledyard

REPORT IS AN ACCURATE ANALYSIS OF
SAMPLE RECEIVED IN THIS LABORATORY

T. F. McCommas 6/17/83
T. F. McCommas, Director Date



PROPERTY SALE

Water Analysis Report

WATER SOURCE: 18 MICHAEL LANE - LEDYARD, CT
NO TREATMENT, KITCHEN TAP

TO: RAFFUSE
P.O. BOX 1058
OLD LYME, CT 06371

DATE: 07/26/2000
TEST#: C0726014

BACTERIOLOGICAL EXAMINATION

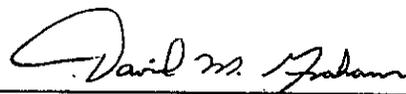
Total Coliforms Present _____ Absent X
Fecal Coliforms Present _____ Absent X

CONCLUSIONS: Based on the bacteriological examination, this water was safe for drinking purposes (potable) at the time the sample was collected.

PHYSICAL/CHEMICAL EXAMINATION	RESULT	AL	UNITS
Turbidity	<u>3.4</u>	5.0	NTU
* Color	<u>30</u>	15	---
Odor	<u>N.D.</u>	2	---
pH	<u>7.4</u>	6.4 - 10.0	---
Hardness	<u>163</u>	200	mg/L
Nitrate Nitrogen	<u>7.0</u>	10.0	mg/L
Nitrite Nitrogen	<u>N.D.</u>	1.00	mg/L
Sulfate	<u>16.6</u>	250.0	mg/L
Sodium	<u>12.5</u>	28.0	mg/L
Chloride	<u>52.0</u>	250.0	mg/L
Copper	<u>0.05</u>	1.30	mg/L
* Iron	<u>0.44</u>	0.30	mg/L
Manganese	<u>N.D.</u>	0.05	mg/L
Single Draw Lead	<u>N.D.</u>	0.015	mg/L

Sampled By: Joe DeLaurentis under the direction of Aquatek Labs.

AL = Advisory Level
N.D. = None Detected
* = exceeds AL, see attached sheet
/ = below AL, see attached sheet


David M. Graham
Laboratory Director

CT License #PH-0466

- 131 BRADLEY ROAD • WOODBRIDGE, CONNECTICUT 06525
- 141 BOSTON POST ROAD • OLD SAYBROOK, CONNECTICUT 06475



Crystal Springs Laboratory, Inc.

Environmental & Chemical Testing

CT Dept. of Health #PH-0642

178 Bridge Street R
Groton, Connecticut 06340
(203) 445-1751

Sample ID#: SHFP-0224

Date: 26 February 1992

Date Received (Lab): 24 February 1992

Source: ~~LI-Sunset Ave.~~
Ledyard, CT

Time Received (Lab): 2:00 P.M.

Test: Full Profile

Date/Time Sampled: 2-24-92, 1:00 P.M.

Sampled by: Thomas Morgan

Report to:

Bill to:

Name: Sound Home Inspections
Street: 340 Long Hill Road
Town, State: Groton, CT
Zip Code: 06340
Telephone: 445-1236

Name: Same
Street:
Town, State:
Zip Code:
Telephone:

PARAMETER	RESULTS	MCL*
Coliform bacteria	0 (P/A)	0 colony/100mL
pH	7.4	6.4-8.5
Total dissolved solids	110 ppm	550 ppm
Color	5 C.U.	15 C.U.
Odor	1	2 (T.V.)
Turbidity	0.16 NTU	5.50 NTU
Hardness (as CaCO ₃)	88 ppm	<75 ppm, soft water
MBAS (Surfactants)	<0.1 ppm	0.5 ppm
Ammonia Nitrogen	0.032 ppm	0.05 ppm
Nitrate Nitrogen	5.5 ppm	10.0 ppm
Nitrite Nitrogen	0.002 ppm	1.00 ppm
Chloride	21.7 ppm	250 ppm
Iron	<0.04 ppm	0.30 ppm
Manganese	<0.02 ppm	0.05 ppm
Sodium	9.29 ppm	28.0 ppm ***

* MCL = Maximum Contaminant Levels

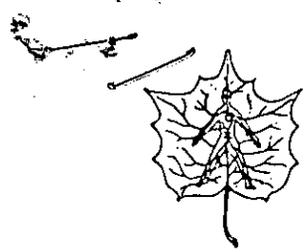
*** EPA Advisory Level

All procedures are in strict compliance with U.S.E.P.A., CT. Dept. of Health, and CT. D.E.P. guidelines.

This sample meets all of the above requirements for potability.

Dr. Eugene A. Cioffi, Director

OK Herbert W Pearson
Bldg. off. Ledyard Ct.



EASTERN AQUANALYSIS

Div. of Eastern Scientific Associates, Inc.
P.O. BOX 700

BROOKLYN, CT 06234
Telephone: (203) 774-6814
Call Toll Free In Conn. 1-800-932-1150

Analysis of:
Water
Waste Water
Industrial Trade Waste
Trace Metals

ERA Realty Specialists
423 Long Hill Road
Groton, CT. 06340

LAB NO. A480-20
CLIENT NO. _____
DATE IN. 1/10/84
INVOICE NO. _____
DATE COLLECTED 1/10/84
TIME COLLECTED 1400
SOURCE 14 Sunset Drive
Ledyard, CT.

STATE OF CONNECTICUT PUBLIC HEALTH LABORATORY PH 0465

ANALYSIS PERFORMED	RESULTS	RECOMMENDED LIMITS
Nitrate + Nitrite Nitrogen -----	6.4 ppm	10.0 ppm
<p>This is a retest. Please attach copy to your original report form. Certified sample taken by lab personnel. Verified by: M. Shackleton</p>		

Form SAR

Date of Analysis
05 Robert W. Pearson
01/11/84 off Ledyard

T. F. McCombes 1/11/84
Laboratory Director Date

STATE OF CONNECTICUT PUBLIC HEALTH LABORATORY PH 0465
U.S.D.A. APPROVED LABORATORY
EASTERN AQUANALYSIS
Div. of Eastern Scientific Associates, Inc.
P.O. Box 700
BROOKLYN, CONNECTICUT 06234
Telephone: (203)774-6814
Toll free in Connecticut 1-800-932-1150

REPORT ERA REALTY SPECIALISTS
TO: 423 LONG HILL RD
GROTON, CT 06340

SOURCE OF 14 SUNSET AVENUE
SAMPLE: LEDYARD, CT

COPY
TO:

SAMPLE#: M342-50
REASON FOR EXAM: VA
TYPE OF SUPPLY: DRILLED WELL

TELEPHONE: 445-6949

TREATMENT: NONE
DATE/TIME COLLECTED: 12/6/83 / 1400

PHYSICAL CHARACTERISTICS:

Color 5	units
Odor 0	units
Turbidity 0.7	NTU

This table of recommended limits may be considered as a guideline for the Director of Health in interpreting a well water analysis.

CHEMICAL CHARACTERISTICS:

Ammonia Nitrogen LESS THAN 0.02	ppm
Nitrate plus	
Nitrite Nitrogen 14.0	ppm
Chlorides 13	ppm
pH 7.7	
MBAS LESS THAN 0.1	ppm

RECOMMENDED LIMITS

Color: 15 units - if over 30 removal treatment should be provided.
Turbidity: 5 NTU - iron and manganese should be tested when over 5 NTU.
Odor: 2 units or less.
Ammonia Nitrogen: 0.05 ppm.
Nitrate plus
Nitrite Nitrogen: 10 ppm.
Chlorides: 250 ppm - sodium should be tested if over 30 ppm.
pH: 6.4 to 8.6
MBAS: 0.5 ppm.
Sodium: 20 ppm - if over 20 ppm the consumer must be informed.
Iron: 0.3 ppm.
Manganese: 0.05 ppm.
Hardness: 150 ppm.

ADDITIONAL TESTS

(If Required or Requested)

Iron LESS THAN 0.1	ppm
Hardness 56	ppm
	ppm
	ppm
	ppm

Bacteriological Quality:

Total Coliform 0 Col / 100ML
Acceptable Limit:
0 or 1 colony per 100 ML
Sample was within limits for potability.

COMMENTS:

NITRATE + NITRITE NITROGEN EXCEEDS DESIRABLE LIMITS.

Certified sample taken by lab personnel. REPORT IS AN ACCURATE ANALYSIS OF
Verified by: SAMPLE RECEIVED IN THIS LABORATORY

M. SHACKLETON

NOT TO BE USED FOR INFANT FEEDING OR BY NURSING
MOTHERS. NITRITE EXCEEDS DESIRABLE LIMITS.
MAY CAUSE METHEMOGLOBINEMIA INFANT SYANOSIS OR
BLUE BABIES.

Herbert W. Pearson, Jr.
HERBERT W. PEARSON, JR.

BUILDING OFFICIAL TOWN OF LEDYARD

T. F. McCommas 12/5/83
T.F. McCommas, Director Date

EcoScience Laboratory

House sale

490 Main Street
Norwich CT 06360

860-889-8104

28 Oct 98

98-254-M29

Steven Prescott
c/o Sue Barnhouser
American Realty
2260 Route 32
Uncasville CT 06382

Results of analyses on two samples of wellwater from the premises at 21 Sunset Avenue in Ledyard, CT, collected by the lab on 8 Oct and 27 Oct 98:

	Result	Guideline
27 Oct sample:		
Total Coliform bacteria by the Colilert PA method.	Absent in 100 ml	Absent
8 Oct sample:		
pH	7.5	6.4-10.0
Hardness	86* mg/L as CaCO ₃	200
Chloride	19.0 mgCl/L	270
Sodium	8.8 mgNa/L	28
Nitrate	6.4** mgN/L	10
Nitrite	<0.01 mgN/L	1.0
Iron	0.05 mgFe/L	0.3
Manganese	<0.02 mgMn/L	0.05
Sulfate	11.7 mgSO ₄ /L	--
Turbidity	0.25 NTU	5.0
Color	0 Pt units	15
Odor	0	2

* Please see notes on the attached page.

** Water with a nitrate content over 10 mgN/L may be poisonous to infants. Nursing mothers and infants under 1 year of age should not drink such water. Sources of nitrate contamination include runoff from farms or gardens and effluent from septic systems. Nitrate-free water can be produced using a reverse-osmosis filter or water-distiller. Large scale treatment for removal of nitrate is probably not feasible. You should monitor the nitrate content of this wellwater. You should check with local, regional, and/or state health officials concerning the health and safety implications of these results and any further testing that may be required.

If you have any questions, please call me at the lab.

Results indicate that this water is suitable for use as potable water to the extent that these tests performed on a single sample can so indicate. LSM



Anthony G Benoit
Anthony G Benoit,
Director



Route 205, The Regional Building
Brooklyn, CT 06234
860-774-6814

Report To: Dr. Peter Gates
Ledyard Health Dept
741 Col. Ledyard Highway
Ledyard, CT 06339

Source of Sample: 28 Sunsett Ave
Ledyard, CT
Date of Collection: 6/22/1998
Date Received in Laboratory: 6/23/1998
Collected By: D. Oullet / cv

Copy To: Homeworks Home Inspections Inc
Mike Remley

Laboratory ID: E806784-1

BACTERIOLOGICAL RESULTS

<u>PARAMETER</u>	<u>RESULTS</u>	<u>UNITS</u>	<u>MCL</u>	<u>COMMENT</u>
Total Coliform	0	col/100mL	0	
THE BACTERIOLOGICAL RESULTS ARE ACCEPTABLE FOR POTABILITY STANDARDS				

CHEMICAL RESULTS

[CT GENERAL STATUTES HAVE ESTABLISHED PRIMARY MCL'S FOR THE FOLLOWING PARAMETERS]

<u>PARAMETER</u>	<u>RESULTS</u>	<u>UNITS</u>	<u>MCL</u>	<u>COMMENT</u>
Nitrite	ND	ppm	1.0	
Nitrate	6.2	ppm	10	
Chloride	68	ppm	250	
ALL OF THE ABOVE PARAMETERS MEET THE CT GENERAL STATUTES ESTABLISHED MCL'S FOR POTABILITY.				

[CT GENERAL STATUTES HAVE NOT ESTABLISHED MCL'S FOR THE FOLLOWING PARAMETERS]

<u>PARAMETER</u>	<u>RESULTS</u>	<u>UNITS</u>	<u>RL</u>	<u>COMMENT</u>
pH	5.7	pH Units	6.4 to 10.0	OUT
Color	0	Color Units	15	
Odor	0	Units	2	
Turbidity	1.0	NTU	5	
Iron	0.30	ppm	0.3	
Manganese	ND	ppm	0.05	
Hardness	120	ppm	NE	
Sodium	75	ppm	28	OUT
Sulfate	10	ppm	250	

THE ABOVE RESULTS ARE USED IN DETERMINING ASPECTS OF WATER SUCH AS STAINING. ALTHOUGH NO MCL'S ARE SET BY THE GENERAL STATUTE, THERE ARE RECOMMENDED LIMITS THAT ARE USED BY PUBLIC HEALTH OFFICIALS AND WATER TREATMENT SPECIALISTS IN THE INTERPRETATION OF WATER QUALITY.

COMMENTS: pH and Sodium exceeds Recommended Limits. A Water Treatment Specialist may be consulted for possible treatment.

KEY TO TERMS

COL - colonies
mL - milliliter
ppm - parts per million
NTU - Turbidity unit
cv - Certified Vendor for Premier Laboratory, LLC

MCL - Max Contamination Limit
RL - Recommended Limit
ND - None Detected
NE - None Established

OUT - Out of range or exceeds limit

Report is an accurate analysis of:
Sample received at this laboratory

Premier Laboratory, LLC 6/25/1998
Authorized Signature

Water Analysis Report

WATER SOURCE: 28 SUNSET AVENUE - LEDYARD, CT
NO TREATMENT, KITCHEN TAP

TO: LEAF, JOSH
172 HAWTHORNE DRIVE #20 M
NEW LONDON, CT 06320

DATE: 03/04/2004
TEST#: D0304410

BACTERIOLOGICAL EXAMINATION

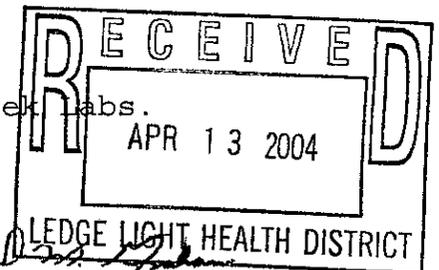
Total Coliforms Present _____ Absent X
Fecal Coliforms Present _____ Absent X

PHYSICAL/CHEMICAL EXAMINATION	<u>RESULT</u>	<u>AL</u>	<u>UNITS</u>
Turbidity	<u>0.8</u>	5.0	NTU
Color	<u>10</u>	15	---
Odor	<u>N.D.</u>	2	---
pH	<u>6.4</u>	10.0 - 6.4	---
Calcium	<u>41.3</u>	None	
Magnesium	<u>7.8</u>	None	
Hardness	<u>135.2</u>	200	mg/L
* Nitrate Nitrogen	<u>13.6</u>	10.0	mg/L
Nitrite Nitrogen	<u>N.D.</u>	1.00	mg/L
Sulfate	<u>10.0</u>	250.0	mg/L
* Sodium	<u>72.2</u>	28.0	mg/L
Chloride	<u>160.1</u>	250.0	mg/L
Copper	<u>0.74</u>	1.30	mg/L
Iron	<u>0.15</u>	0.30	mg/L
* Manganese	<u>0.20</u>	0.05	mg/L
Single Draw Lead	<u>0.008</u>	0.015	mg/L

CONCLUSIONS: Based on the above results, this water was unsafe for drinking purposes at the time the sample was collected. (Corrective measures, followed by re-examination, are recommended).

Sampled By: James Blonshine under the direction of Aquatek Labs.

- AL = Advisory Level
- N.D. = None Detected
- * = exceeds AL, see attached sheet
- ✓ = below AL, see attached sheet



David M. Graham, Ph.D.
Laboratory Director



131 BRADLEY ROAD • WOODBRIDGE, CT 06525
 141 BOSTON POST ROAD • OLD SAYBROOK, CT 06475

Water Analysis Report

WATER SOURCE: 5 ALJEN AVENUE - LEDYARD, CT
 NO TREATMENT, KITCHEN SINK

TO: GOODAL, CINDY
 37 E FLINTLOCK ROAD
 LEDYARD, CT 06339

DATE: 11/28/2007
 TEST#: C1128735

BACTERIOLOGICAL EXAMINATION

Total Coliforms Present _____ Absent X

Fecal Coliforms Present _____ Absent X

PHYSICAL/CHEMICAL EXAMINATION	RESULT	AL	UNITS
Turbidity	<u>5.0</u>	5.0	NTU
* Color	<u>25</u>	15	---
Odor	<u>N.D.</u>	2	---
pH	<u>7.8</u>	10.0 - 6.4	---
Calcium	<u>28.7</u>	None	mg/L
Magnesium	<u>5.1</u>	None	mg/L
Hardness	<u>92.7</u>	200	mg/L
Nitrate Nitrogen	<u>5.0</u>	10.0**	mg/L
Nitrite Nitrogen	<u>N.D.</u>	1.00**	mg/L
Sulfate	<u>12.4</u>	250.0	mg/L
Sodium	<u>9.1</u>	28.0	mg/L
Chloride	<u>33.9</u>	250.0	mg/L
Copper	<u>N.D.</u>	1.30**	mg/L
* Iron	<u>0.91</u>	0.30	mg/L
* Manganese	<u>0.07</u>	0.05	mg/L

CONCLUSIONS: Based on the above results, this water was safe for drinking purposes at the time the sample was collected.

Sampled By: Ron Griffith under the direction of Aquatek Labs.

AL = Advisory Level = EPA Maximum Contaminant Level (MCL) or State enforceable standard when value followed by **.

N.D. = None Detected

* = exceeds AL, see attached sheet

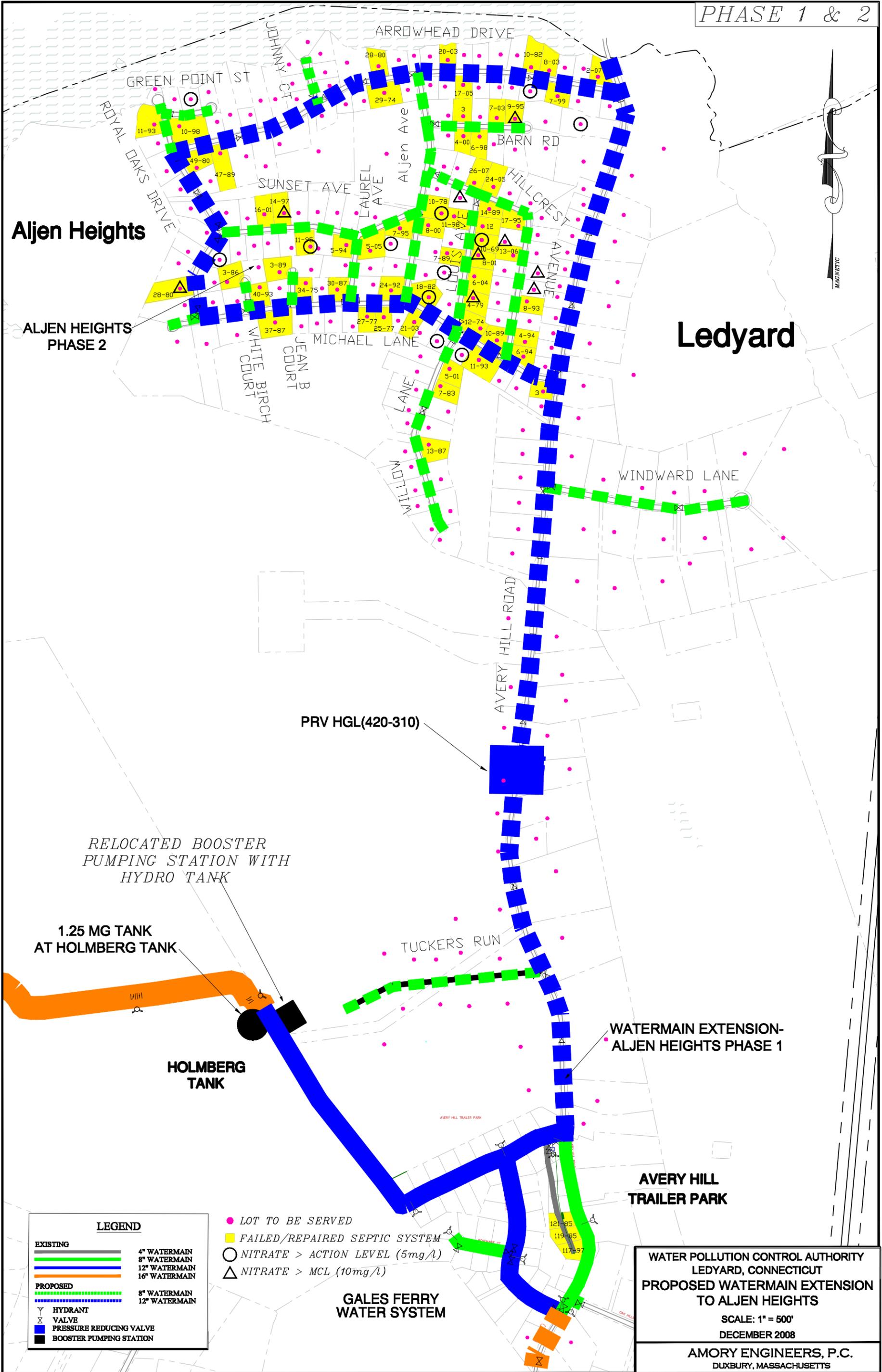
✓ = below AL, see attached sheet

David M. Graham, Ph.D.
 Laboratory Director

DEC 11 2007

CT License #PH-0466

LEDGE LIGHT MD



Aljen Heights

Ledyard

ALJEN HEIGHTS PHASE 2

PRV HGL(420-310)

RELOCATED BOOSTER PUMPING STATION WITH HYDRO TANK

1.25 MG TANK AT HOLMBERG TANK

HOLMBERG TANK

WATERMAIN EXTENSION-ALJEN HEIGHTS PHASE 1

AVERY HILL TRAILER PARK

GALES FERRY WATER SYSTEM

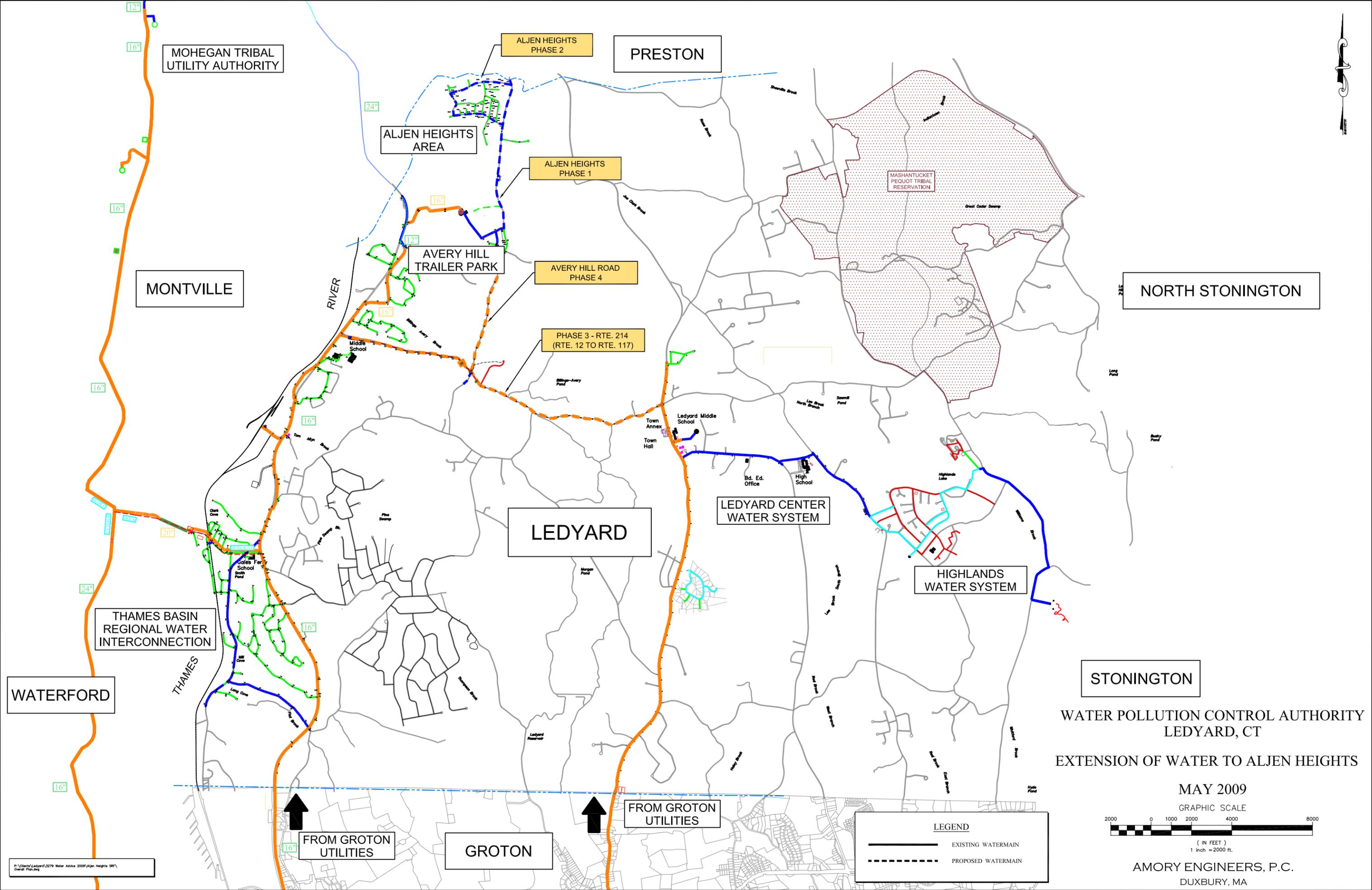
LEGEND	
EXISTING	
	4" WATERMAIN
	8" WATERMAIN
	12" WATERMAIN
	16" WATERMAIN
PROPOSED	
	8" WATERMAIN
	12" WATERMAIN
	HYDRANT
	VALVE
	PRESSURE REDUCING VALVE
	BOOSTER PUMPING STATION

- LOT TO BE SERVED
- FAILED/REPAIRED SEPTIC SYSTEM
- NITRATE > ACTION LEVEL (5mg/l)
- NITRATE > MCL (10mg/l)

WATER POLLUTION CONTROL AUTHORITY
LEDYARD, CONNECTICUT
PROPOSED WATERMAIN EXTENSION TO ALJEN HEIGHTS

SCALE: 1" = 500'
DECEMBER 2008

AMORY ENGINEERS, P.C.
DUXBURY, MASSACHUSETTS



MOHEGAN TRIBAL UTILITY AUTHORITY

ALJEN HEIGHTS PHASE 2

PRESTON

ALJEN HEIGHTS AREA

ALJEN HEIGHTS PHASE 1

MASHANTUCKET PEQUOT TRIBAL RESERVATION

MONTVILLE

AVERY HILL TRAILER PARK

AVERY HILL ROAD PHASE 4

NORTH STONINGTON

PHASE 3 - RTE. 214 (RTE. 12 TO RTE. 117)

RIVER

THAMES

LEDYARD

LEDYARD CENTER WATER SYSTEM

HIGHLANDS WATER SYSTEM

STONINGTON

THAMES BASIN REGIONAL WATER INTERCONNECTION

WATERFORD

FROM GROTON UTILITIES

FROM GROTON UTILITIES

GROTON

LEGEND

- EXISTING WATERMAIN
- - - PROPOSED WATERMAIN

WATER POLLUTION CONTROL AUTHORITY LEDYARD, CT

EXTENSION OF WATER TO ALJEN HEIGHTS

MAY 2009

GRAPHIC SCALE

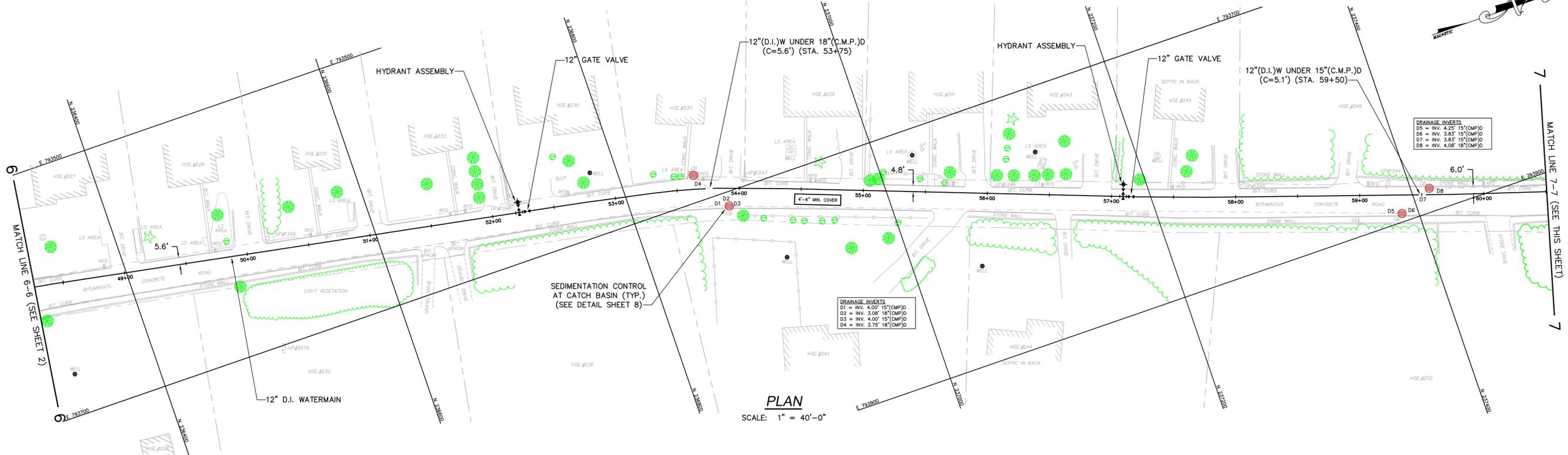


(IN FEET)
1 inch = 2000 ft.

AMORY ENGINEERS, P.C.
DUXBURY, MA

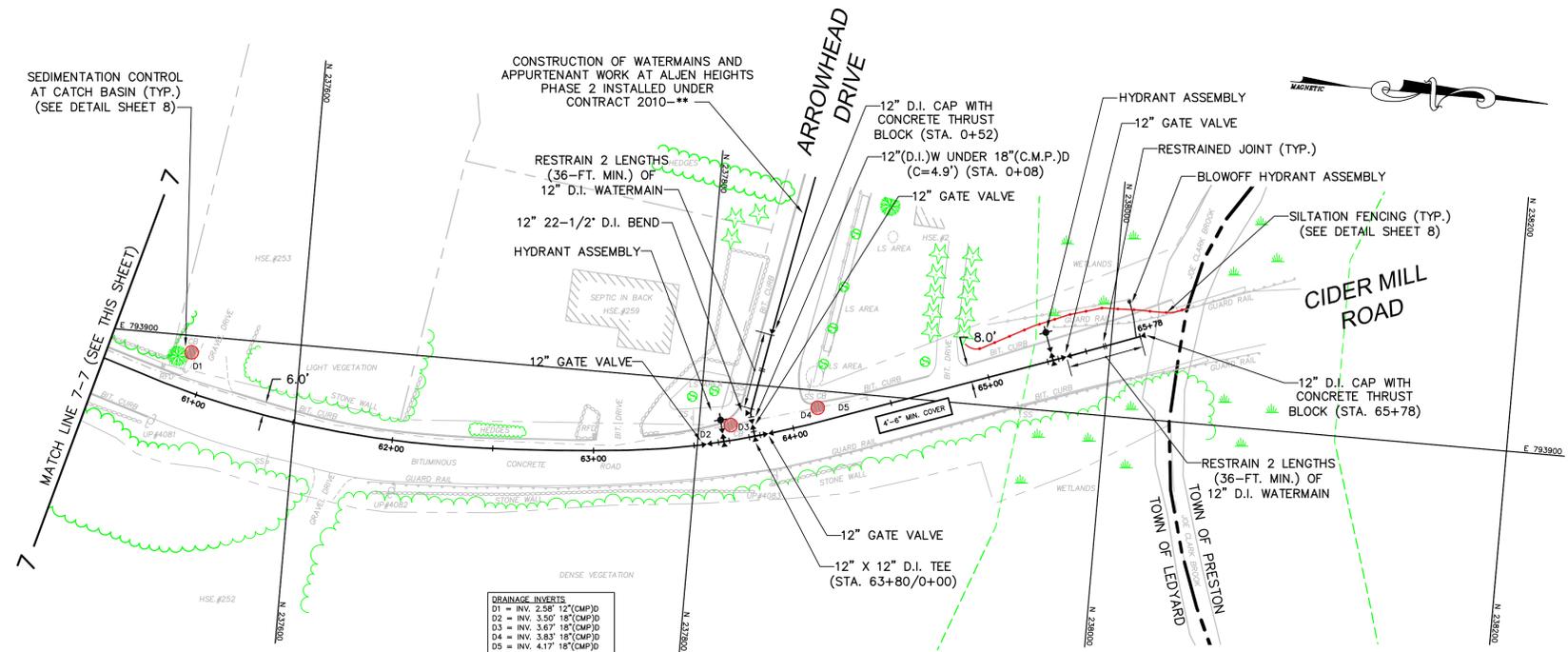
D:\Projects\Ledyard\3279 Water Advice 2009\Aljen Heights SRP\Overall Plan.dwg

AVERY HILL ROAD



PLAN
SCALE: 1" = 40'-0"

AVERY HILL ROAD



PLAN
SCALE: 1" = 40'-0"

- NOTES:**
1. ALL SERVICES SHALL BE 1-INCH DIAMETER UNLESS OTHERWISE NOTED.
 2. SERVICE CONNECTION LOCATIONS ARE APPROXIMATE. ACTUAL LOCATIONS WILL BE DETERMINED IN THE FIELD.
 3. RIGHT-OF-WAY AND PROPERTY LINES ARE APPROXIMATE ONLY.
 4. STONE WALLS SHALL BE REMOVED AND REPLACED AS NECESSARY TO FACILITATE PLACEMENT OF WATERMAIN APPURTENANCES. SILT FENCE SHALL BE INSTALLED UNDER THIS CIRCUMSTANCE IF ADJACENT TO A WETLAND.

REVISIONS		
NO.	ITEM	DATE
PRELIMINARY FOR REVIEW PURPOSES ONLY NOT TO BE USED FOR CONSTRUCTION		

AMORY ENGINEERS, P.C.
DATE: AUGUST **, 2009

AMORY ENGINEERS, P.C.
DUXBURY, MASSACHUSETTS

DRAWN BY: RJT/PGB	FILE NAME: AS SHOWN	SCALE: AS SHOWN
DESIGNED BY: RJT/PGB	JOB NO.: 3330	DWG. NO.: 1525
CHECKED BY: RSJ	DATE: 8/**/09	CONTRACT: 2010-**-

WATER POLLUTION CONTROL AUTHORITY
LEDYARD, CONNECTICUT

CONSTRUCTION OF WATERMAINS AND APPURTENANT WORK AT
AVERY HILL ROAD, TUCKER'S RUN & WINDWARD LANE - PHASE 1A

PLANS 3 - AVERY HILL ROAD

CIVIL
SHEET
3 OF 8

P:\Clients\Avery\3330 Ledyard WPCA Aljen Phase 1A\Drawings\3330 Phase 1A Design Sheets.dwg



TOWN OF PRESTON
TOWN OFFICES
389 ROUTE 2
PRESTON, CONNECTICUT 06365-8830

May 24, 2010

CT Department of Public Health
410 Capitol Avenue, MS #51 WAT
Hartford, CT 06134

RE: SRF Application 2010 – 0727051a
Aljen Heights Water main Extension
Town of Ledyard

Dear Commissioner Galvin, M.D.:

This letter is to express the Town of Preston's support of the Town of Ledyard's State Revolving Fund application of water main extension to the Aljen Heights area of Ledyard. The extension of water to this portion of Ledyard will provide municipal water to Ledyard residents who currently have on-site water supply and on-site septic systems. The Town of Preston believes the extensions of water to Aljen Heights will not only correct a potential health issue in Ledyard but also provides mutual benefit to the residents of Preston and the interests of the Town of Preston.

Because each community abuts Poquetanuck Cove (immediately to the north of Aljen Heights), the potential impact on the environment due to failing septic systems is of concern to both communities. By providing municipal water, more lot area becomes available for replacement septic systems when these are required. These systems can then be located where it would impact the environment the least.

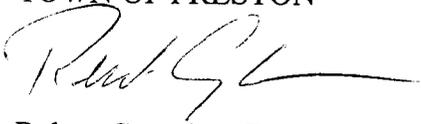
The extension of water in this area of Ledyard and the provision of a possible water system interconnect to Preston is highly advantageous to our community. This area of Preston would benefit if a municipal water system were constructed in Preston along Route 2. As you are aware Preston along with other municipal leaders were active participants in the Thames River Regional Water Interconnect project. As part of that project Ledyard has a second possible location for interconnecting to Preston. While the redevelopment of the State Hospital property is progressing in Preston; a second source

CT Department of Public Health
May 24, 2010
Page 2

of municipal water affords us more flexibility and reliability of water service to this valuable property.

In closing, the Town of Preston supports the Town of Ledyard's State Revolving Fund application of water main extension to the Aljen Heights area of Ledyard. The Town of Preston believes the extensions of water to Aljen Heights will not only correct a potential health issue in Ledyard but also provides mutual benefit to the residents of Preston and the interests of the Town of Preston.

TOWN OF PRESTON

A handwritten signature in black ink, appearing to read 'Robert Congdon', written over a horizontal line.

Robert Congdon, First Selectman

Mayor Fred Allyn
Ledyard WPCA
Ledyard Town Council



TOWN OF LEDYARD CONNECTICUT

Inland Wetlands and Watercourses Commission

741 Colonel Ledyard Highway
Ledyard, CT 06339-1511
(860) 464-8740
(Fax) (860) 464-1126
WWW.TOWN.LEDYARD.CT.US

April 5, 2010

Richard S. Johnson, P.E.
Amory Engineers, P.C.
25 Depot Street
PO Box 1768
Duxbury, MA 02331-1768

Subject: Permit Approval from the Town of Ledyard Inland Wetlands and Watercourses Commission.

Dear Mr. Johnson;

Thank you for your recent correspondence. To clarify the approval of the application to the Ledyard Inland Wetlands and Watercourses Commission (IWWC), at their regular meeting of January 19, 2010, the Commission rendered the following decision on application (3-10), Gregory Teifert, Director, Water Pollution Control Authority (WPCA), (agent/applicant):
Approved

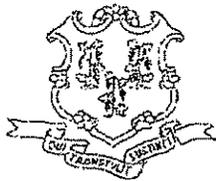
The proposal was to install a new water main and appurtenant work within the paved surface of Avery Hill Road from Avery Hill Trailer Park to the Town Line in 2 Phases. The IWWC considered both Phase 1 and 2 and they were approved under Application 3-10.

Should you have any questions for me, please call anytime at 464-3216. Thank you.

Sincerely,

R. Scott Duffus, Zoning/Inland Wetlands Official

Cc: Gregory Teifert, Director, WPCA
IWWC



STATE OF CONNECTICUT

DEPARTMENT OF PUBLIC HEALTH

May 26, 2010

Ms. Cynthia L. Cross
Ledyard WPCA
P.O. Box 310
741 Colonel Ledyard Highway
Ledyard, CT 06339-1511

ATTN:
RICH
JOHNSON

PUBLIC WATER SYSTEM: Avery Hill Water Association
CLASSIFICATION TYPE: Community
TOWN: Ledyard, CT
PWSID: CT0720061 , ,

SUBJECT: SANITARY SURVEY REPORT

Dear Ms. Cross:

A sanitary survey was performed at Avery Hill Water Association on April 9, 2010 with John Gardner representing Ledyard WPCA and Mandy Smith representing CT DPH. The findings of this survey with associated recommended actions are as follows:

System Description: The Avery Hill Water Association water system is comprised of a single well, atmospheric and pressure storage and disinfection and pH adjustment treatment. A single 6-inch driven well is located in the above-grade pump house and produces water at a rate of approximately 40 gallons per minute (gpm). The raw water is injected with 12.5% sodium hypochlorite solution for disinfection purposes and a 50% sodium hydroxide solution for pH adjustment purposes and is sent to the 3,237-gallon steel atmospheric storage tank to achieve contact time. A chlorine residual of approximately 0.7 -- 0.8 mg/L is maintained in the system. Water is transferred to a 1,000-gallon steel hydropneumatic storage tank via twin booster pumps and sent out to the distribution system on demand.

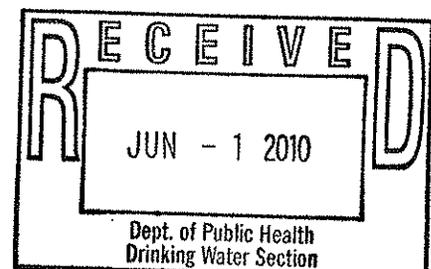
Groundwater Rule:

Effective December 1, 2009, public water systems (PWS's) are required to comply with the provisions of the Groundwater Rule (GWR). The purpose of the GWR is to provide for increased protection against microbial pathogens (contamination) in public water systems that use groundwater sources.

The GWR employs a targeted risk-based strategy to address risks through an approach that includes significant deficiencies identified during periodic sanitary surveys. A significant deficiency includes, but is not limited to, a defect in design, operation, or maintenance, or a failure or malfunction of the source, treatment, storage, or distribution system that the Connecticut Department of Public Health determines to be causing, or has the potential for causing, the introduction of contamination into the drinking water delivered to consumers. The GWR requires corrective action, within a stipulated timetable, for any system with a significant deficiency.

If there are any significant deficiencies in this sanitary survey report the date of this report will act as the beginning of a 30 day consultation period that provides an opportunity for a PWS to discuss the significant

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Telephone Device for the Deaf (860) 509-7191
410 Capitol Avenue - MS # 51WAT
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deficiencies and any proposed corrective action with the Connecticut Department of Public Health. The 30 day consultation period will end with the required formal written response referenced later in this report.

This sanitary survey report shall serve as the official PWS notification of any significant deficiencies under the GWR. Any significant deficiencies must be corrected within the timetable provided below:

Significant Deficiencies:

There were no significant deficiencies identified at the time of the time of the sanitary survey.

Regulatory Violations:

Applicable Regulatory Section	Description of Violation	Recommended Corrective Action
RCSA 19-13-B51d(b)(3)	Avery Hill Water Association utilizes a 6" diameter, 17 foot deep naturally developed well (driven well) as the source of water supply for 47 mobile homes. At the time of the inspection, the well had a withdrawal rate of 41 gpm. A pond is adjacent to the pump house, which is less than 50 feet from the well and therefore, not meeting the minimum separating distance of at least 50 feet from any surface water body.	Avery Hill Water Association must submit to this office a plan of action to resolve this violation. Also, please see the following violation and recommended corrective action below.
RCSA Section 19-13-B102(j)(2)(D)	The criteria for classifying groundwater sources of supply as potentially under the direct influence of surface water for wells constructed above a confining layer is for wells within two hundred (200) feet of surface water or the annual high water mark. Well #1 has been identified in the past two sanitary survey reports dated 12/21/05 and 7/23/07 as being within two hundred (200) feet of surface water and a driven well constructed above a confining layer and the Avery Hill Water Association was required to commence a study to determine whether Well #1 is under the direct influence of surface each time that to date has not been received.	As stated in the response to the previous sanitary survey received from Ledyard WPCA on 11/18/08, an interconnection with the Gales Ferry System is planned at which time the Avery Hill Water Association well and storage tanks will be taken out of service. As an interim measure and pursuant to the RCSA Section 19-13-B102(e)(7)(H), daily measurements for turbidity are required at the entry point to the distribution system have been conducted at Avery Hill since August 2007, with no reading ever above 0.5 NTU. Additionally, the Avery Hill Water Association has maintained its current configuration of pH adjustment and disinfection treatment pursuant the RCSA Sections 19-13-B102(e)(7)(M) and 19-13-B102(e)(7)(N). Please respond with a written update regarding the status of the proposed interconnection timeline or commence a Groundwater Under the Influence of Surface Water study.

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Regulatory Requirements:

Applicable Regulatory Section	Description of Requirement	Recommended Action
RCSA 19-13-B102f(5)(C)	All finished water storage tanks, basins and clearwells shall be inspected at a minimum of once every ten years for sanitary conditions and structural integrity.	It is unknown the last time the tank has been inspected. Please be reminded that an inspection of the interior and exterior of the tank must be conducted once every ten years and the report be made available upon request.

Conclusions & Recommendations:

A formal response with a plan of action to address all of the items outlined in this report must be submitted to this office by **June 28, 2010**.

As a reminder, all necessary and required forms, reports, sampling schedules, regulations, fact sheets, etc. are available on the DPH Drinking Water Section website at <http://www.ct.gov/dph/publicdrinkingwater>.

If you have any questions regarding this matter please contact me at (860) 509-7333.

Sincerely,



Mandy B. Smith
 Sanitary Engineer 2
 Drinking Water Section



cc: Mr. Baker Salsbury, Director of Health, Ledge Light Health District
 Mr. John R. Gardner, Certified Operator