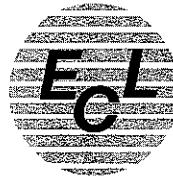


1005 BOSTON POST ROAD  
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September 9, 2019

Town of Old Lyme WPCA  
Attn: Richard Prendergast  
Town Hall  
82 Lyme Street  
Old Lyme, Ct 06371

RE: Monitoring Well Test Results

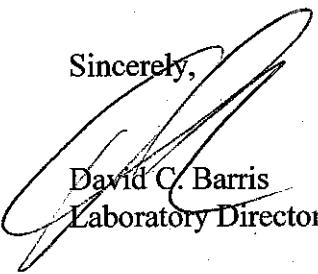
Dear Mr Prendergast,

Enclosed is the report of test results for samples collected on August 21, 2019.

As discussed we will collect the next round in September of 2019.

Please contact me should you have any questions.

Sincerely,

  
David C. Barris  
Laboratory Director

Enclosure

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## **REPORT OF TESTS**

### **REPORT PREPARED FOR:**

**Town of Old Lyme WPCA  
83 Lyme Street  
Old Lyme, CT 06371**

### **REPORT PREPARED BY:**

**David C. Barris  
Laboratory Director**

**ENVIRONMENTAL CONSULTING LABORATORIES, INC.**

**1005 Boston Post Road  
Madison, CT 06443**

**REPORT DATE: September 9, 2019**

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### **Appendices:**

- Appendix A - Chain of Custody**
- Appendix B - Site Map**
- Appendix C - Sampling Log Records**
- Appendix D- Sampling SOP**

## **INTRODUCTION**

**ENVIRONMENTAL CONSULTING LABORATORIES, INC.,** is a State of Connecticut certified public health laboratory. Dedicated to servicing our clients, we offer comprehensive, cost-effective environmental consulting and testing services. Analytical capabilities include testing of industrial effluents, groundwater, hazardous wastes, sewage, sludge, sediment, soils. All sampling and analytical procedures are in accordance with Federal and State regulations.

Environmental Consulting Laboratories, Inc., maintains strict quality control and assurance procedures to ensure data that can be used with confidence. Strict adherence to EPA approved methods, blanks, standards, spikes, and duplicate sample analyses are routine lab practice. In addition, Environmental Consulting Laboratories, Inc., participates in EPA and Connecticut proficiency performance evaluations.

## **SAMPLE & SITE IDENTIFICATION**

Ground water samples were collected by Environmental Consulting Laboratories, Inc., on August 21, 2019. Monitoring wells are identified as HN-1-98, HN-2-98, HN-3-98, HN-4N, HN-5N, HN-6, HN-7, HN-8, HN-9, HN-10 and HN-11. See Site Map in Appendix B

## **SAMPLING METHODOLOGY**

Groundwater samples were taken in accordance with Town of Old Lyme Groundwater Monitoring Standard Operating Procedures. See document in Appendix D.

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## Report of Analysis

**Name:** Old Lyme Town Hall  
c/o WPCA  
52 Lyme Street  
Old Lyme, CT 06371  
Attn: Richard Prendergast  
**Sample Date:** 8/21/2019  
**Receipt Date:** 8/21/2019  
**Report Date:** 9/9/2019  
**Sample Site:** HN-1-98

**Sample ID#:** 126992  
**Sample Type:** Groundwater  
**Sample Source:** Monitoring Wells  
**Sampler:** ECL - MB

Parameter	Sample Result	Units	Method	MDL	Analysis Date	Analyst
<b>Biological</b>						
Coliform, E. Coli	<10	MPN/100mL	Colilert-18	10	8/21/2019	JB
Coliform, Total	246	MPN/100mL	Colilert-18	10	8/21/2019	JB
Enterococcus Bacteria	<10	MPN/100mL	Enterolert	10	8/21/2019	JB
Fecal Coliform Bacteria	<10	MPN/100mL	Colilert-18	10	8/21/2019	JB
Fecal Strep Bacteria	80	col/100ml	SM9230	10	8/21/2019	JB
<b>Chemical</b>						
Ammonia as N	ND	mg/L	ASTM D6919-03	0.05	9/5/2019	KC
Chloride	15.6	mg/L	EPA300.0	0.5	8/21/2019	JB
Nitrate as N	4.05	mg/L	EPA300.0	0.1	8/21/2019	JB
Nitrite as N	ND	mg/L	EPA300.0	0.01	8/21/2019	JB
Phosphorous -Total as P	0.09	mg/L	EPA 200.7	0.04	8/27/2019	JB
TKN as N	1.06	mg/L	4500NorgC	0.5	9/6/2019	KC
Total Nitrogen as N	5.11	mg/L	CALC	1	9/9/2019	KC
<b>Physical</b>						
Conductivity	138	umhos/cm	SM2510B	1	8/21/2019	JB
PH	5.20	pH	EPA 150.2	1	8/21/2019	MB
Turbidity	17	NTU	180.1	0.05	8/21/2019	JB

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ND = Not Detected

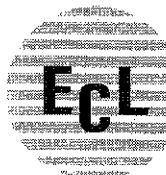
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## Report of Analysis

**Name:** Old Lyme Town Hall  
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Old Lyme, CT 06371  
Attn: Richard Prendergast  
**Sample Date:** 8/21/2019  
**Receipt Date:** 8/21/2019  
**Report Date:** 9/9/2019  
**Sample Site:** HN-2-98

**Sample ID#:** 126993  
**Sample Type:** Groundwater  
**Sample Source:** Monitoring Wells  
**Sampler:** ECL - MB

Parameter	Sample Result	Units	Method	MDL	Analysis Date	Analyst
<b>Biological</b>						
Coliform, E. Coli	<10	MPN/100mL	Colilert-18	10	8/21/2019	JB
Coliform, Total	359	MPN/100mL	Colilert-18	10	8/21/2019	JB
Enterococcus Bacteria	<10	MPN/100mL	Enterolert	10	8/21/2019	JB
Fecal Coliform Bacteria	<10	MPN/100mL	Colilert-18	10	8/21/2019	JB
Fecal Strep Bacteria	10	col/100ml	SM9230	10	8/21/2019	JB
<b>Chemical</b>						
Ammonia as N	ND	mg/L	ASTM D6919-03	0.05	9/5/2019	KC
Chloride	17.6	mg/L	EPA300.0	0.5	8/21/2019	JB
Nitrate as N	3.37	mg/L	EPA300.0	0.1	8/21/2019	JB
Nitrite as N	ND	mg/L	EPA300.0	0.01	8/21/2019	JB
Phosphorous -Total as P	ND	mg/L	EPA 200.7	0.04	8/27/2019	JB
TKN as N	<0.50	mg/L	4500NorgC	0.5	9/6/2019	KC
Total Nitrogen as N	3.37	mg/L	CALC	1	9/9/2019	KC
<b>Physical</b>						
Conductivity	130	umhos/cm	SM2510B	1	8/21/2019	JB
PH	5.50	pH	EPA 150.2	1	8/21/2019	MB
Turbidity	13	NTU	180.1	0.05	8/21/2019	JB

  
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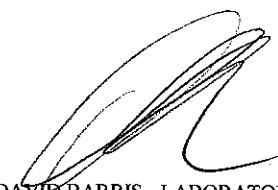
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Old Lyme, CT 06371  
Attn: Richard Prendergast  
**Sample Date:** 8/21/2019  
**Receipt Date:** 8/21/2019  
**Report Date:** 9/9/2019  
**Sample Site:** HN-3-98

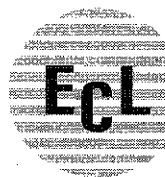
**Sample ID#:** 126994  
**Sample Type:** Groundwater  
**Sample Source:** Monitoring Wells  
**Sampler:** ECL - MB

Parameter	Sample Result	Units	Method	MDL	Analysis Date	Analyst
<b>Biological</b>						
Coliform, E. Coli	20	MPN/100mL	Colilert-18	10	8/21/2019	JB
Coliform, Total	2282	MPN/100mL	Colilert-18	10	8/21/2019	JB
Enterococcus Bacteria	52	MPN/100mL	Enterolert	10	8/21/2019	JB
Fecal Coliform Bacteria	75	MPN/100mL	Colilert-18	10	8/21/2019	JB
Fecal Strep Bacteria	770	col/100ml	SM9230	10	8/21/2019	JB
<b>Chemical</b>						
Ammonia as N	ND	mg/L	ASTM D6919-03	0.05	9/5/2019	KC
Chloride	14.8	mg/L	EPA300.0	0.5	8/21/2019	JB
Nitrate as N	5.26	mg/L	EPA300.0	0.1	8/21/2019	JB
Nitrite as N	0.01	mg/L	EPA300.0	0.01	8/21/2019	JB
Phosphorous -Total as P	0.08	mg/L	EPA 200.7	0.04	8/27/2019	JB
TKN as N	1.06	mg/L	4500NorgC	0.5	9/6/2019	KC
Total Nitrogen as N	6.33	mg/L	CALC	1	9/9/2019	KC
<b>Physical</b>						
Conductivity	169	umhos/cm	SM2510B	1	8/21/2019	JB
PH	6.00	pH	EPA 150.2	1	8/21/2019	MB
Turbidity	6.9	NTU	180.1	0.05	8/21/2019	JB

  
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**Name:** Old Lyme Town Hall  
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Attn: Richard Prendergast  
**Sample Date:** 8/21/2019  
**Receipt Date:** 8/21/2019  
**Report Date:** 9/9/2019  
**Sample Site:** HN-4N

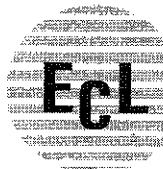
**Sample ID#:** 126995  
**Sample Type:** Groundwater  
**Sample Source:** Monitoring Wells  
**Sampler:** ECL - MB

Parameter	Sample Result	Units	Method	MDL	Analysis Date	Analyst
<b>Biological</b>						
Coliform, E. Coli	<10	MPN/100mL	Colilert-18	10	8/21/2019	JB
Coliform, Total	107	MPN/100mL	Colilert-18	10	8/21/2019	JB
Enterococcus Bacteria	<10	MPN/100mL	Enterolert	10	8/21/2019	JB
Fecal Coliform Bacteria	<10	MPN/100mL	Colilert-18	10	8/21/2019	JB
Fecal Strep Bacteria	<10	col/100ml	SM9230	10	8/21/2019	JB
<b>Chemical</b>						
Ammonia as N	ND	mg/L	ASTM D6919-03	0.05	9/5/2019	KC
Chloride	33.8	mg/L	EPA300.0	0.5	8/21/2019	JB
Nitrate as N	2.53	mg/L	EPA300.0	0.1	8/21/2019	JB
Nitrite as N	ND	mg/L	EPA300.0	0.01	8/21/2019	JB
Phosphorous -Total as P	ND	mg/L	EPA 200.7	0.04	8/27/2019	JB
TKN as N	0.54	mg/L	4500NorgC	0.5	9/6/2019	KC
Total Nitrogen as N	5.94	mg/L	CALC	1	9/9/2019	KC
<b>Physical</b>						
Conductivity	162	umhos/cm	SM2510B	1	8/21/2019	JB
PH	5.40	pH	EPA 150.2	1	8/21/2019	MB
Turbidity	26	NTU	180.1	0.05	8/21/2019	JB

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Attn: Richard Prendergast  
**Sample Date:** 8/21/2019  
**Receipt Date:** 8/21/2019  
**Report Date:** 9/9/2019  
**Sample Site:** HN-5N

**Sample ID#:** 126996  
**Sample Type:** Groundwater  
**Sample Source:** Monitoring Wells  
**Sampler:** ECL - MB

Parameter	Sample Result	Units	Method	MDL	Analysis Date	Analyst
<b>Biological</b>						
Coliform, E. Coli	20	MPN/100mL	Colilert-18	10	8/21/2019	JB
Coliform, Total	1046	MPN/100mL	Colilert-18	10	8/21/2019	JB
Enterococcus Bacteria	10	MPN/100mL	Enterolert	10	8/21/2019	JB
Fecal Coliform Bacteria	<10	MPN/100mL	Colilert-18	10	8/21/2019	JB
Fecal Strep Bacteria	<10	col/100ml	SM9230	10	8/21/2019	JB
<b>Chemical</b>						
Ammonia as N	8.58	mg/L	ASTM D6919-03	0.05	9/5/2019	KC
Chloride	42.0	mg/L	EPA300.0	0.5	8/21/2019	JB
Nitrate as N	0.17	mg/L	EPA300.0	0.1	8/21/2019	JB
Nitrite as N	ND	mg/L	EPA300.0	0.01	8/21/2019	JB
Phosphorous -Total as P	1.31	mg/L	EPA 200.7	0.04	8/27/2019	JB
TKN as N	9.33	mg/L	4500NorgC	0.5	9/6/2019	KC
Total Nitrogen as N	9.50	mg/L	CALC	1	9/9/2019	KC
<b>Physical</b>						
Conductivity	309	umhos/cm	SM2510B	1	8/21/2019	JB
PH	6.30	pH	EPA 150.2	1	8/21/2019	MB
Turbidity	600	NTU	180.1	0.05	8/21/2019	JB

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## Report of Analysis

**Name:** Old Lyme Town Hall  
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52 Lyme Street  
Old Lyme, CT 06371  
Attn: Richard Prendergast  
**Sample Date:** 8/21/2019  
**Receipt Date:** 8/21/2019  
**Report Date:** 9/9/2019  
**Sample Site:** HN-6

**Sample ID#:** 126997  
**Sample Type:** Groundwater  
**Sample Source:** Monitoring Wells  
**Sampler:** ECL - MB

Parameter	Sample Result	Units	Method	MDL	Analysis Date	Analyst
<b>Biological</b>						
Coliform, E. Coli	<10	MPN/100mL	Colilert-18	10	8/21/2019	JB
Coliform, Total	20	MPN/100mL	Colilert-18	10	8/21/2019	JB
Enterococcus Bacteria	<10	MPN/100mL	Enterolert	10	8/21/2019	JB
Fecal Coliform Bacteria	<10	MPN/100mL	Colilert-18	10	8/21/2019	JB
Fecal Strep Bacteria	<10	col/100ml	SM9230	10	8/21/2019	JB
<b>Chemical</b>						
Ammonia as N	ND	mg/L	ASTM D6919-03	0.05	9/5/2019	KC
Chloride	46.3	mg/L	EPA300.0	0.5	8/21/2019	JB
Nitrate as N	3.62	mg/L	EPA300.0	0.1	8/21/2019	JB
Nitrite as N	0.03	mg/L	EPA300.0	0.01	8/21/2019	JB
Phosphorous -Total as P	ND	mg/L	EPA 200.7	0.04	8/27/2019	JB
TKN as N	0.91	mg/L	4500NorgC	0.5	9/6/2019	KC
Total Nitrogen as N	4.56	mg/L	CALC	1	9/9/2019	KC
<b>Physical</b>						
Conductivity	152	umhos/cm	SM2510B	1	8/21/2019	JB
PH	6.30	pH	EPA 150.2	1	8/21/2019	MB
Turbidity	5.4	NTU	180.1	0.05	8/21/2019	JB

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## Report of Analysis

**Name:** Old Lyme Town Hall  
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52 Lyme Street  
Old Lyme, CT 06371  
Attn: Richard Prendergast  
**Sample Date:** 8/21/2019  
**Receipt Date:** 8/21/2019  
**Report Date:** 9/9/2019  
**Sample Site:** HN-7

**Sample ID#:** 126998  
**Sample Type:** Groundwater  
**Sample Source:** Monitoring Wells  
**Sampler:** ECL - MB

Parameter	Sample Result	Units	Method	MDL	Analysis Date	Analyst
<b>Biological</b>						
Coliform, E. Coli	<10	MPN/100mL	Colilert-18	10	8/21/2019	JB
Coliform, Total	110	MPN/100mL	Colilert-18	10	8/21/2019	JB
Enterococcus Bacteria	<10	MPN/100mL	Enterolert	10	8/21/2019	JB
Fecal Coliform Bacteria	<10	MPN/100mL	Colilert-18	10	8/21/2019	JB
Fecal Strep Bacteria	10	col/100ml	SM9230	10	8/21/2019	JB
<b>Chemical</b>						
Ammonia as N	ND	mg/L	ASTM D6919-03	0.05	9/5/2019	KC
Chloride	91.8	mg/L	EPA300.0	0.5	8/21/2019	JB
Nitrate as N	1.17	mg/L	EPA300.0	0.1	8/21/2019	JB
Nitrite as N	ND	mg/L	EPA300.0	0.01	8/21/2019	JB
Phosphorous -Total as P	1.34	mg/L	EPA 200.7	0.04	8/27/2019	JB
TKN as N	<0.50	mg/L	4500NorgC	0.5	9/6/2019	KC
Total Nitrogen as N	1.17	mg/L	CALC	1	9/9/2019	KC
<b>Physical</b>						
Conductivity	354	umhos/cm	SM2510B	1	8/21/2019	JB
PH	5.40	pH	EPA 150.2	1	8/21/2019	MB
Turbidity	750	NTU	180.1	0.05	8/21/2019	JB

  
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## Report of Analysis

**Name:** Old Lyme Town Hall  
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Attn: Richard Prendergast  
**Sample Date:** 8/21/2019  
**Receipt Date:** 8/21/2019  
**Report Date:** 9/9/2019  
**Sample Site:** HN-8

**Sample ID#:** 126999  
**Sample Type:** Groundwater  
**Sample Source:** Monitoring Wells  
**Sampler:** ECL - MB

Parameter	Sample Result	Units	Method	MDL	Analysis Date	Analyst
<b>Biological</b>						
Coliform, E. Coli	<10	MPN/100mL	Colilert-18	10	8/21/2019	JB
Coliform, Total	108	MPN/100mL	Colilert-18	10	8/21/2019	JB
Enterococcus Bacteria	<10	MPN/100mL	Enterolert	10	8/21/2019	JB
Fecal Coliform Bacteria	<10	MPN/100mL	Colilert-18	10	8/21/2019	JB
Fecal Strep Bacteria	<10	col/100ml	SM9230	10	8/21/2019	JB
<b>Chemical</b>						
Ammonia as N	ND	mg/L	ASTM D6919-03	0.05	9/5/2019	KC
Chloride	29.2	mg/L	EPA300.0	0.5	8/21/2019	JB
Nitrate as N	1.03	mg/L	EPA300.0	0.1	8/21/2019	JB
Nitrite as N	ND	mg/L	EPA300.0	0.01	8/21/2019	JB
Phosphorous -Total as P	0.11	mg/L	EPA 200.7	0.04	8/27/2019	JB
TKN as N	0.70	mg/L	4500NorgC	0.5	9/6/2019	KC
Total Nitrogen as N	1.73	mg/L	CALC	1	9/9/2019	KC
<b>Physical</b>						
Conductivity	156	umhos/cm	SM2510B	1	8/21/2019	JB
PH	6.00	pH	EPA 150.2	1	8/21/2019	MB
Turbidity	100	NTU	180.1	0.05	8/21/2019	JB

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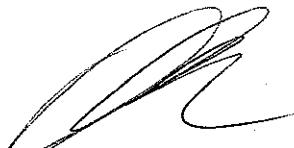
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## Report of Analysis

**Name:** Old Lyme Town Hall  
c/o WPCA  
52 Lyme Street  
Old Lyme, CT 06371  
Attn: Richard Prendergast  
**Sample Date:** 8/21/2019  
**Receipt Date:** 8/21/2019  
**Report Date:** 9/9/2019  
**Sample Site:** HN-9

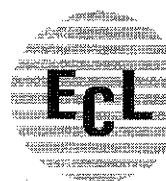
**Sample ID#:** 127000  
**Sample Type:** Groundwater  
**Sample Source:** Monitoring Wells  
**Sampler:** ECL - MB

Parameter	Sample Result	Units	Method	MDL	Analysis Date	Analyst
<b>Biological</b>						
Coliform, E. Coli	<10	MPN/100mL	Colilert-18	10	8/21/2019	JB
Coliform, Total	<10	MPN/100mL	Colilert-18	10	8/21/2019	JB
Enterococcus Bacteria	<10	MPN/100mL	Enterolert	10	8/21/2019	JB
Fecal Coliform Bacteria	<10	MPN/100mL	Colilert-18	10	8/21/2019	JB
Fecal Strep Bacteria	<10	col/100ml	SM9230	10	8/21/2019	JB
<b>Chemical</b>						
Ammonia as N	0.36	mg/L	ASTM D6919-03	0.05	9/5/2019	KC
Chloride	4430	mg/L	EPA300.0	0.5	8/21/2019	JB
Nitrate as N	0.16	mg/L	EPA300.0	0.1	8/21/2019	JB
Nitrite as N	ND	mg/L	EPA300.0	0.01	8/21/2019	JB
Phosphorous -Total as P	0.33	mg/L	EPA 200.7	0.04	8/27/2019	JB
TKN as N	2.71	mg/L	4500NorgC	0.5	9/6/2019	KC
Total Nitrogen as N	2.87	mg/L	CALC	1	9/9/2019	KC
<b>Physical</b>						
Conductivity	6400	umhos/cm	SM2510B	1	8/21/2019	JB
PH	6.70	pH	EPA 150.2	1	8/21/2019	MB
Turbidity	95	NTU	180.1	0.05	8/21/2019	JB

  
DAVID BARRIS - LABORATORY DIRECTOR

ND = Not Detected

1005 BOSTON POST ROAD  
MADISON, CT 06443  
Phone 203-245-0568  
FAX 203-318-0830  
Connecticut Certification PH-0535  
www.eclinconline.com



**ENVIRONMENTAL**  
CONSULTING LABORATORIES, INC.

## Report of Analysis

**Name:** Old Lyme Town Hall  
c/o WPCA  
52 Lyme Street  
Old Lyme, CT 06371  
Attn: Richard Prendergast  
**Sample Date:** 8/21/2019  
**Receipt Date:** 8/21/2019  
**Report Date:** 9/9/2019  
**Sample Site:** HN-10

**Sample ID#:** 127001  
**Sample Type:** Groundwater  
**Sample Source:** Monitoring Wells  
**Sampler:** ECL - MB

Parameter	Sample Result	Units	Method	MDL	Analysis Date	Analyst
<b>Biological</b>						
Coliform, E. Coli	52	MPN/100mL	Colilert-18	10	8/21/2019	JB
Coliform, Total	63	MPN/100mL	Colilert-18	10	8/21/2019	JB
Enterococcus Bacteria	10	MPN/100mL	Enterolert	10	8/21/2019	JB
Fecal Coliform Bacteria	20	MPN/100mL	Colilert-18	10	8/21/2019	JB
Fecal Strep Bacteria	<10	col/100ml	SM9230	10	8/21/2019	JB
<b>Chemical</b>						
Ammonia as N	1.51	mg/L	ASTM D6919-03	0.05	9/5/2019	KC
Chloride	1717	mg/L	EPA300.0	0.5	8/21/2019	JB
Nitrate as N	0.16	mg/L	EPA300.0	0.1	8/21/2019	JB
Nitrite as N	ND	mg/L	EPA300.0	0.01	8/21/2019	JB
Phosphorous -Total as P	0.64	mg/L	EPA 200.7	0.04	8/27/2019	JB
TKN as N	4.68	mg/L	4500NorgC	0.5	9/6/2019	KC
Total Nitrogen as N	4.84	mg/L	CALC	1	9/9/2019	KC
<b>Physical</b>						
Conductivity	3000	umhos/cm	SM2510B	1	8/21/2019	JB
PH	5.50	pH	EPA 150.2	1	8/21/2019	MB
Turbidity	160	NTU	180.1	0.05	8/21/2019	JB

DAVID BARRIS - LABORATORY DIRECTOR

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**ENVIRONMENTAL**  
CONSULTING LABORATORIES, INC.

## Report of Analysis

**Name:** Old Lyme Town Hall  
c/o WPCA  
52 Lyme Street  
Old Lyme, CT 06371  
Attn: Richard Prendergast  
**Sample Date:** 8/21/2019  
**Receipt Date:** 8/21/2019  
**Report Date:** 9/9/2019  
**Sample Site:** HN-11

**Sample ID#:** 127002  
**Sample Type:** Groundwater  
**Sample Source:** Monitoring Wells  
**Sampler:** ECL - MB

Parameter	Sample Result	Units	Method	MDL	Analysis Date	Analyst
<b>Biological</b>						
Coliform, E. Coli	<10	MPN/100mL	Colilert-18	10	8/21/2019	JB
Coliform, Total	<10	MPN/100mL	Colilert-18	10	8/21/2019	JB
Enterococcus Bacteria	<10	MPN/100mL	Enterolert	10	8/21/2019	JB
Fecal Coliform Bacteria	<10	MPN/100mL	Colilert-18	10	8/21/2019	JB
Fecal Strep Bacteria	<10	col/100ml	SM9230	10	8/21/2019	JB
<b>Chemical</b>						
Ammonia as N	ND	mg/L	ASTM D6919-03	0.05	9/5/2019	KC
Chloride	2326	mg/L	EPA300.0	0.5	8/21/2019	JB
Nitrate as N	ND	mg/L	EPA300.0	0.1	8/21/2019	JB
Nitrite as N	ND	mg/L	EPA300.0	0.01	8/21/2019	JB
Phosphorous -Total as P	0.12	mg/L	EPA 200.7	0.04	8/27/2019	JB
TKN as N	1.99	mg/L	4500NorgC	0.5	9/6/2019	KC
Total Nitrogen as N	1.99	mg/L	CALC	1	9/9/2019	KC
<b>Physical</b>						
Conductivity	3850	umhos/cm	SM2510B	1	8/21/2019	JB
PH	6.40	pH	EPA 150.2	1	8/21/2019	MB
Turbidity	40	NTU	180.1	0.05	8/21/2019	JB

DAVID BARRIS - LABORATORY DIRECTOR

ND = Not Detected

# APPENDIX A

## ENVIRONMENTAL

## CONSULTING LABORATORIES, INC.

1005 Boston Post Road  
Madison, CT 06443

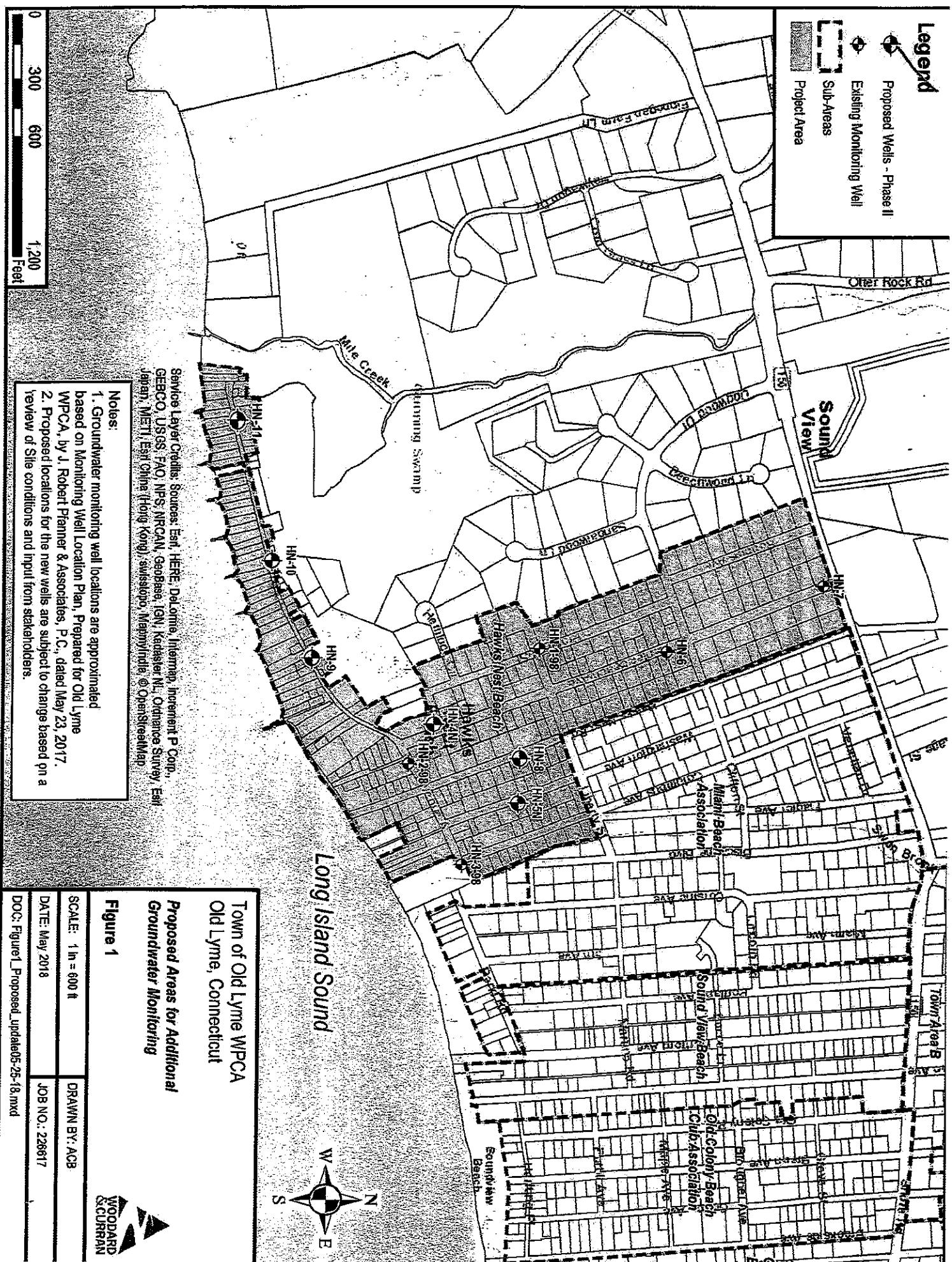
(203) 245-0568 phone  
(203) 318-0830 Fax

Contact: C/O WPCA Richard Prendergast  
Address: 52 Lyme St. Old Lyme, CT 06371  
Phone: 203-641-1237 Email: [chairWPCA@oldlyme.org](mailto:chairWPCA@oldlyme.org)

Phone: 203-641-1237 Email: chairWPCA@oldlyme-ct.gov  
Samplers Name: (Print)

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# APPENDIX B



# APPENDIX C

## GROUND WATER SAMPLE LOG

1. Sample Location: Old Lyme
2. Well Number: HN-1-98
3. Sampled By: MS-IM
4. Date: 8-21
5. Time: 11:15 am
6. Weather:  

<u>Cloudy</u>	Cold	Snow
<u>Sunny</u>	Warm	Rain
Hot	Windy	
7. Sample Method: Bailer (Disposable)
8. Depth to bottom of well from measuring point: 30.1 Feet
9. Depth to Water: 11.60 Feet
10. #8 - #9 = LWC: 8.50 Feet (Length of water column)
11. Diameter of inner casings: 2" 4" 6"
12. Volume of water in well:  
$$2" \text{ Diameter well} = 0.163 \times \text{LWC} = \underline{1,38} \text{ Gallons}$$
$$4" \text{ Diameter Well} = 0.633 \times \text{LWC} = \underline{\quad} \text{ Gallons}$$
$$6" \text{ Diameter Well} = 1.467 \times \text{LWC} = \underline{\quad} \text{ Gallons}$$
13. Purge Volume:  $3 \times \#12 = \underline{4,20}$  Gallons to purge

**TOWN OF OLD LYME  
FIELD WATER QUALITY MEASUREMENTS FORM**

FIELDWATER

Location (Site/Facility Name) - Old Lyme  
Well Number 111-1-98 Date 8-21

Location (Site/Facility Name) - Old Lyme  
 Well Number H/N- 1 - 98 Date 8- 21

## GROUND WATER SAMPLE LOG

1. Sample Location: Old Lyme
2. Well Number: HN-1-98
3. Sampled By: MB-jm
4. Date: 8-21
5. Time: 9:55 AM
6. Weather:  

<input checked="" type="checkbox"/> Cloudy	<input type="checkbox"/> Cold	<input type="checkbox"/> Snow
<input type="checkbox"/> Sunny	<input checked="" type="checkbox"/> Warm	<input checked="" type="checkbox"/> Rain
<input type="checkbox"/> Hot	<input type="checkbox"/> Windy	
7. Sample Method: Bailer (Disposable)
8. Depth to bottom of well from measuring point: 15.6 Feet
9. Depth to Water: 7.80 Feet
10. #8 - #9 = LWC: 7.80 Feet (Length of water column)
11. Diameter of inner casings: 2" 4" 6"
12. Volume of water in well:  
$$2" \text{ Diameter well} = 0.163 \times \text{LWC} = \underline{1.27} \text{ Gallons}$$
$$4" \text{ Diameter Well} = 0.633 \times \text{LWC} = \underline{\quad} \text{ Gallons}$$
$$6" \text{ Diameter Well} = 1.467 \times \text{LWC} = \underline{\quad} \text{ Gallons}$$
13. Purge Volume:  $3 \times \#12 = \underline{3,80}$  Gallons to purge

## Town of Old Lyme

## FIELD WATER QUALITY MEASUREMENTS FORM

**Location (Site/Facility Name) - Old Lyme**

Well Number H-N-4-98 Date 8-21-19

Well Number W-4-98 Date 8-21-19

Clock	Depth To Water	pH	Temperature	Comments
Time 24 HR				
9:55 AM	7.80	5.5	19°C	- Meter

## GROUND WATER SAMPLE LOG

1. Sample Location: Old Lyme

2. Well Number: HW-3-98

3. Sampled By: MB - JM

4. Date: 8-4-1

5. Time: 10:40 am

6. Weather:

<u>Cloudy</u>	Cold	Snow
Sunny	<u>Warm</u>	Rain
Hot	Windy	

7. Sample Method: Bailer (Disposable)

8. Depth to bottom of well from measuring point: 13.0 Feet

9. Depth to Water: 6.60 Feet

10. #8 - #9= LWC: 6.40 Feet (Length of water column)

11. Diameter of inner casings: 2" 4" 6"

12. Volume of water in well:

2" Diameter well =  $0.163 \times \text{LWC} =$  1.04 Gallons

4" Diameter Well =  $0.633 \times \text{LWC} =$  \_\_\_\_\_ Gallons

6" Diameter Well =  $1.467 \times \text{LWC} =$  \_\_\_\_\_ Gallons

13. Purge Volume:  $3 \times \#12 =$  3.13 Gallons to purge

**TOWN OF OLD LYME  
FIELD WATER QUALITY MEASUREMENTS FORM**

## FIELD WATER QUALITY MEASUREMENT FORM

Location (Site/Facility Name) = Old Lyme

Well Number: HW-3-98 Date: 8-21

Location (Site/Facility Name) - Old Lyme  
 Well Number 4/N-3-9  Date 2-21

## GROUND WATER SAMPLE LOG

1. Sample Location: Old Lyme
2. Well Number: HN-4N
3. Sampled By: M3 - JM
4. Date: 8-21
5. Time: 11:30 AM
6. Weather:

<input checked="" type="checkbox"/> Cloudy	<input type="checkbox"/> Cold	<input type="checkbox"/> Snow
<input type="checkbox"/> Sunny	<input type="checkbox"/> Warm	<input type="checkbox"/> Rain
<input type="checkbox"/> Hot	<input type="checkbox"/> Windy	
7. Sample Method: Bailer (Disposable)
8. Depth to bottom of well from measuring point: 16.3 Feet
9. Depth to Water: 10.10 Feet
10. #8 - #9 = LWC: 6.25 Feet (Length of water column)
11. Diameter of inner casings: 6 4" 6"
12. Volume of water in well:  
$$\textcircled{6} \text{ Diameter well} = 0.163 \times \text{LWC} = \underline{1.02} \text{ Gallons}$$
$$4" \text{ Diameter Well} = 0.633 \times \text{LWC} = \underline{\quad} \text{ Gallons}$$
$$6" \text{ Diameter Well} = 1.467 \times \text{LWC} = \underline{\quad} \text{ Gallons}$$
13. Purge Volume:  $3 \times \#12 = \underline{3.06}$  Gallons to purge

**TOWN OF OLD LYME**  
**FIELD WATER QUALITY MEASUREMENTS FORM**

FIELDWALL

**Location (Site/Facility Name) - Old Lyme**  
**Well Number HN-4R**      **Date 5-21**

## GROUND WATER SAMPLE LOG

1. Sample Location: 016 Lyme
2. Well Number: HN-5N
3. Sampled By: Jm-mB
4. Date: 8-21-19
5. Time: 10:35 am
6. Weather:

Cloudy	Cold	Snow
Sunny	Warm	Rain
Hot	Windy	
7. Sample Method: Bailer (Disposable)
8. Depth to bottom of well from measuring point: 14.9 Feet
9. Depth to Water: 5.6 Feet
10. #8 - #9= LWC: 7.3 Feet (Length of water column)
11. Diameter of inner casings: 2"   4"   6"
12. Volume of water in well:  
$$2" \text{ Diameter well} = 0.163 \times \text{LWC} = \underline{1.2} \text{ Gallons}$$
$$4" \text{ Diameter Well} = 0.633 \times \text{LWC} = \underline{\quad} \text{ Gallons}$$
$$6" \text{ Diameter Well} = 1.467 \times \text{LWC} = \underline{\quad} \text{ Gallons}$$
13. Purge Volume:  $3 \times \#12 = \underline{3.6}$  Gallons to purge

## Town of Old Lyme

## FIELD WATER QUALITY MEASURMENTS FORM

**Location (Site/Facility Name) - Old Lyme**

Well Number 11N-5N Date 8-21-19

Location (Site/Facility Name) - Old Lyme  
 Well Number H-N-5W Date 8-21-19

Clock Time 24 HR	Depth To Water	pH	Temperature	Comments
10:35A	5.60	6.3	16 °C	—

## GROUND WATER SAMPLE LOG

1. Sample Location: Old Lyone
2. Well Number: HN-6
3. Sampled By: MB-JM
4. Date: 8-21
5. Time: 11:50 AM
6. Weather:  
 Cloudy     Cold     Snow  
 Sunny     Warm     Rain  
 Hot     Windy
7. Sample Method: Bailer (Disposable)
8. Depth to bottom of well from measuring point: 13.0 Feet
9. Depth to Water: 10.70 Feet
10. #8 - #9= LWC: 4.30 Feet (Length of water column)
11. Diameter of inner casings: 2    4"    6"
12. Volume of water in well:  
$$2' \text{ Diameter well} = 0.163 \times \text{LWC} = \underline{0.375} \text{ Gallons}$$
$$4" \text{ Diameter Well} = 0.633 \times \text{LWC} = \underline{\quad} \text{ Gallons}$$
$$6" \text{ Diameter Well} = 1.467 \times \text{LWC} = \underline{\quad} \text{ Gallons}$$
13. Purge Volume:  $3 \times \#12 = \underline{36}$  Gallons to purge

## Town of Old Lyme

## FIELD WATER QUALITY MEASUREMENTS FORM

**Location (Site/Facility Name) - Old Lyme**

Well Number HV-6 Date 5-21

Location (Site/Facility Name) - Old Lyme  
 Well Number 11/1 - 6 Date 5-21

## GROUND WATER SAMPLE LOG

1. Sample Location: Old Lyme
2. Well Number: HN-7
3. Sampled By: JM-MB
4. Date: 8-21
5. Time: 12:10pm
6. Weather:  
 Cloudy    Cold    Snow  
 Sunny    Warm    Rain  
 Hot    Windy
7. Sample Method: Bailer (Disposable)
8. Depth to bottom of well from measuring point: 16.8 Feet
9. Depth to Water: 9.80 Feet
10. #8 - #9 = LWC: 7.0 Feet (Length of water column)
11. Diameter of inner casings: 2 4" 6"
12. Volume of water in well:  
$$2" \text{ Diameter well} = 0.163 \times \text{LWC} = \underline{1.14} \text{ Gallons}$$
$$4" \text{ Diameter Well} = 0.633 \times \text{LWC} = \underline{\quad} \text{ Gallons}$$
$$6" \text{ Diameter Well} = 1.467 \times \text{LWC} = \underline{\quad} \text{ Gallons}$$
13. Purge Volume:  $3 \times \#12 = \underline{3.48}$  Gallons to purge

## Town of Old Lyme

## FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) - Old Lyme  
Well Number H-7 Date 8-21-91

Clock	Depth To Water	pH	Temperature	Comments
24 HR	10.16pm	9.80	5.4	15.4°C —

# GROUND WATER SAMPLE LOG

1. Sample Location: Old Lyme

2. Well Number: HN-8

3. Sampled By: M3 - Jm

4. Date: 8-21

5. Time: 10:50 am

6. Weather:

<u>Cloudy</u>	Cold	Snow
Sunny	Warm	Rain
<u>Hot</u>	Windy	

7. Sample Method: Bailer (Disposable)

8. Depth to bottom of well from measuring point: 11.9 Feet

9. Depth to Water: 6.70 Feet

10. #8 - #9= LWC: 5.20 Feet (Length of water column)

11. Diameter of inner casings: 2" 4" 6"

12. Volume of water in well:

2" Diameter well =  $0.163 \times \text{LWC} =$  0.85 Gallons

4" Diameter Well =  $0.633 \times \text{LWC} =$  \_\_\_\_\_ Gallons

6" Diameter Well =  $1.467 \times \text{LWC} =$  \_\_\_\_\_ Gallons

13. Purge Volume:  $3 \times \#12 =$  3.60 Gallons to purge

**FIELD WATER QUALITY MEASUREMENTS FORM**

**Town of Old Lyme**

FIELD WATER QUALITY MEASUREMENT FORM

Location (Site/Facility Name) - Old Lyme  
Well Number H-8 Date 8-21

Location (Site/Facility Name) - Old Lyme  
 Well Number H-N-8 Date 8-21

## GROUND WATER SAMPLE LOG

1. Sample Location: Old Lyme

2. Well Number: HN-9

3. Sampled By: M3 - TM

4. Date: 8-21

5. Time: 9:30 am

6. Weather:

<u>Cloudy</u>	<u>Cold</u>	<u>Snow</u>
<u>Sunny</u>	<u>Warm</u>	<u>Rain</u>
<u>Hot</u>	<u>Windy</u>	

7. Sample Method: Bailer (Disposable)

8. Depth to bottom of well from measuring point: 11.4 Feet

9. Depth to Water: 4.20 Feet

10. #8 - #9 = LWC: 7.30 Feet (Length of water column)

11. Diameter of inner casings: 2 1/2 4" 6"

12. Volume of water in well:

2 1/2 Diameter well =  $0.163 \times \text{LWC} = 1,17$  Gallons

4" Diameter Well =  $0.633 \times \text{LWC} =$  \_\_\_\_\_ Gallons

6" Diameter Well =  $1.467 \times \text{LWC} =$  \_\_\_\_\_ Gallons

13. Purge Volume:  $3 \times \#12 = 3.58$  Gallons to purge

**FIELD WATER QUALITY MEASUREMENTS FORM**  
**Town of Old Lyme**

**Location (Site/Facility Name) - Old Lyme**

Well Number H-17 Date 8/21

# GROUND WATER SAMPLE LOG

1. Sample Location: 018 Lyme
2. Well Number: HN-10
3. Sampled By: MB-3M
4. Date: 8-21
5. Time: 9:07 am
6. Weather:

<u>Cloudy</u>	Cold	Snow
Sunny	<u>Warm</u>	Rain
Hot	Windy	
7. Sample Method: Bailer (Disposable)
8. Depth to bottom of well from measuring point: 11.5 Feet
9. Depth to Water: 4.40 Feet
10. #8 - #9 = LWC: 7.10 Feet (Length of water column)
11. Diameter of inner casings: 8 4" 6"
12. Volume of water in well:  
$$\text{Diameter well} = 0.163 \times \text{LWC} = \underline{1.16} \text{ Gallons}$$
$$4" \text{ Diameter Well} = 0.633 \times \text{LWC} = \underline{\quad} \text{ Gallons}$$
$$6" \text{ Diameter Well} = 1.467 \times \text{LWC} = \underline{\quad} \text{ Gallons}$$
13. Purge Volume:  $3 \times 12 = \underline{36.50}$  Gallons to purge

## Town of Old Lyme

## FIELD WATER QUALITY MEASUREMENTS FORM

Location (Site/Facility Name) - Old Lyme  
Well Number HV-10 Date 8-21-19

# GROUND WATER SAMPLE LOG

1. Sample Location: Old Lyme

2. Well Number: HN-11

3. Sampled By: MB-JM

4. Date: 8-4-1

5. Time: 8:50 am

6. Weather:

<u>Cloudy</u>	Cold	Snow
Sunny	<u>Warm</u>	Rain
Hot	Windy	

7. Sample Method: Bailer (Disposable)

8. Depth to bottom of well from measuring point: 11.4 Feet

9. Depth to Water: 5.30 Feet

10. #8 - #9 = LWC: 6.30 Feet (Length of water column)

11. Diameter of inner casings: 2 4" 6"

12. Volume of water in well:

2 Diameter well =  $0.163 \times \text{LWC} = 1.01$  Gallons

4" Diameter Well =  $0.633 \times \text{LWC} =$  \_\_\_\_\_ Gallons

6" Diameter Well =  $1.467 \times \text{LWC} =$  \_\_\_\_\_ Gallons

13. Purge Volume:  $3 \times \#12 = 3.03$  Gallons to purge

## Town of Old Lyme

## FIELD WATER QUALITY MEASUREMENTS FORM

## Location (Site/Facility Name) - Old Lyme

Well Number H-N-11 Date 8-21-94

# APPENDIX D

# **Town of Old Lyme Ground Water Monitoring**

## **SAMPLING SOP Rev 4 - Environmental Consulting Lab**

### **Groundwater Monitoring Wells**

#### **Bailer Purge Technique**

##### **Overview:**

Stagnant water must be removed from the monitoring well in order to obtain an accurate sample of groundwater for laboratory analysis.

This SOP will address the bailing and sampling procedures to be taken.

##### **Safety:**

Prior to sampling, field personnel should conduct a preliminary assessment of the area to determine any safety hazards.

Placement of traffic cones, safety vests and truck hazard lights should be used.

Minimize monitoring well water contact with potential personal protective equipment i.e. safety glasses & nitrile gloves.

##### **Procedure:**

Prior to purging the well, observe for any physical problems with monitoring well, ie: lock present, well cap broken or missing, condition of casing, etc.

Measure groundwater to the nearest hundredth of inch record on field sheet with time of measurement. Calculate the volume of standing water to purge a minimum of three volumes using prior readings of depth to bottom, to avoid agitating fines that may have accumulated on the bottom of the well.

A separate new bailer will be used for each well to minimize the potential for cross contamination of sampling equipment.

Lower bailer into monitoring well in a manner as to create minimum water disturbance. Repeat this process until three well volumes have been purged.

Following purging of three well volumes, measure pH and Temperature of the groundwater and record on field worksheet.

**Sample Collection:**

1. Do not rinse or empty bottles. Several bottles contain a preservative that must remain in the bottle.
2. If there is an overflow while filling a sample bottle that contains preservatives, restart the procedure using a new sample bottle.
3. If one bottle is to be used for several different tests, be sure there are no conflicts with preservation requirements.

**Field Logs:**

Use the Ground Water Sample Log (attached) to record all field information. Include Well ID, Date and Time, Weather, readings, observations and calculations for purge volume

Complete the Chain of Custody form (attached). Include sample ID/location, date and time.

The following pages contain specific sampling instructions and procedures that are dependent on analyte type.

GROUP:  
Inorganics

SUBGROUP:

Chloride,Nitrate,Nitrite

BOTTLE: 500-mL

Preservative: Chill to 4 degrees C.

Holding Time: 48 Hrs

Test Method: EPA 300.1 Ion Chromatography

#### PROCEDURE

1. Using waterproof ink, fill out and attach label. At a minimum, include the Well ID number, sampling point and date.
2. Remove the sampling container cap. Be careful not to touch the inside of the sampling container or cap with your fingers. When possible, hold the sampling container in one hand and the cap in the other or set the cap on a clean surface. Quickly position the sampling container under the water flow.
3. Fill to the shoulder of the container. Do not over fill.
4. Quickly remove the sampling container from the water flow.
5. Replace cap and tighten.
6. Completely fill out the chain of custody form.
7. Sample must be placed in coolers for laboratory submittal.

GROUP:  
Bacteria

Total/ Fecal  
Coliforms,  
Enterococci, Fecal  
Strep

BOTTLE: (4) 120 mL sterile plastic bottle

Preservative: Chill to 4 degrees C.

Holding Time: 8 Hrs.

Test Methods: Colilert-18, Enterolert, SM9230

#### PROCEDURE

1. Using waterproof ink, fill out and attach label. At a minimum, include the Well ID number, sampling point and date.
2. Remove the sampling container cap. Be careful not to touch the inside of the sampling container or cap with your fingers. When possible, hold the sampling container in one hand and the cap in the other or set the cap on a clean surface. Quickly position the sampling container under the water flow.
3. Fill to at least the 100 mL mark. Leave some air space.
4. Quickly remove the sampling container from the waterflow.
5. Replace cap and tighten.
6. Completely fill out the chain of custody form.
7. Sample must be placed in coolers for laboratory submittal.

GROUP:  
Inorganic

SUBGROUP:

Phosphorus-Total

BOTTLE: One 125 ml

Preservative: PH<2 1:1 Nitric Acid

Test Method: EPA 200.7 ICP

PROCEDURE:

1. Using waterproof ink, fill out and attach label. At a minimum, include the Well ID number, sampling point and date.
2. Remove the sampling container cap. Be careful not to touch the inside of the sampling container or cap with your fingers. When possible, hold the sampling container in one hand and the cap in the other or set the cap on a clean surface. Quickly position the sampling container under the water flow.
3. Fill to the shoulder of the container. Do not over fill.
4. Quickly remove the sampling container from the water flow.
5. Bottle contains Nitric Acid Preservative.
6. Replace cap and tighten.
7. Completely fill out the chain of custody form.
8. Sample must be placed in coolers for laboratory submittal.

GROUP:  
Inorganic

SUBGROUP:  
Ammonia, TKN

BOTTLE: 125-mL

Preservative: PH <2 with 1:1 Sulfuric Acid

Holding time: 28 Days

Test Method: ASTM D6919-03, SM 4500-Norg C

#### PROCEDURE

1. Using waterproof ink, fill out and attach label. At a minimum, include the Well ID number, sampling point and date.
2. Remove the sampling container cap. Be careful not to touch the inside of the sampling container or cap with your fingers. When possible, hold the sampling container in one hand and the cap in the other or set the cap on a clean surface. Quickly position the sampling container under the water flow.
3. Fill to the shoulder of the container. Do not over fill.
4. Quickly remove the sampling container from the water flow.
5. Bottle contains Sulfuric Acid Preservative.
6. Replace cap and tighten.
7. Completely fill out the chain of custody form.
8. Sample must be placed in coolers for laboratory submittal