



Mystic Air Quality Consultants, Inc.

1204 North Road, Groton, Connecticut 06340

www.mysticair.com

maq2@aol.com

800 247-7746

June 10, 2015

Stephen Banks
Ledyard Water Pollution Control Authority
82 Town Farm Rd.
Ledyard, CT
06339

Re: **Limited & Directed Survey and Lead-in-Paint Screening (6/1/15)**
Ledyard Water Pollution Control Authority
82 Town Farm Rd.
Ledyard, CT

Dear Mr. Banks:

As requested, Mystic Air Quality Consultants, Inc. conducted a limited and directed asbestos survey of accessible materials at the location noted above on June 1st, 2015. This survey was conducted by Greg Eident, Connecticut State licensed asbestos inspector (license #000908), to determine the presence of asbestos-containing materials. The samples collected were analyzed by polarized light microscopy at Environmental Hazards Services (NVLAP # 101882-0) in Virginia.

In addition to the asbestos survey, a limited and directed lead in paint screening of painted surfaces using a calibrated Niton XRF Spectrum Analyzer at the location noted above. The testing involved placing a calibrated X-ray fluorescence analyzer against representative painted surfaces to measure the concentration of lead in the paint at that location. The analyzer measures a square centimeter of surface area. **Should there be more than 1 milligram of lead (0.9 mg/cm² to allow for equipment variation) detected in that location, the surface is considered by State law to be lead painted.** Lead-painted surfaces are considered toxic to children under the age of six and to women who are pregnant.

Summary of the Asbestos Findings-

Upon testing by polarized light microscopy, the following samples were found to be asbestos containing:

Sample #s	Material/Location	Estimated Affected Area
ACM	Flashing/On elbows and ends of pipe, South clarigester	6 sq. ft.
7-9	Pipe Covering/On pipe, South clarigester	10 sq. ft.
13-15	Flashing/On elbows and ends of pipe, North clarigester	6 sq. ft.
16-18	Pipe Covering/On pipe, North clarigester	30 sq. ft.

Inspector Noted: Some areas were not able to be inspected due to confined space limitation and water obstacles



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Non-asbestos containing material

The roster of suspect materials (Enclosure 3), lists the materials tested. Those that are not already referred to as asbestos containing or assumed asbestos, can be categorized as non-asbestos containing materials.

Implications of the findings

As required by state and federal regulations prior to renovation or demolition, any asbestos-containing materials listed above that could be disturbed by a renovation, will need to be removed by a licensed asbestos abatement contractor employing trained and certified personnel who follow all pertinent asbestos abatement regulations.

Limitations of the Asbestos survey

This survey and report only deal with accessible areas of the building. Additionally, there may be other non-accessible materials above ceilings, behind walls, and below floors that become evident during your renovation activity. Should the requisite EPA/OSHA competent person working for the contractor discover such materials they will need to be tested for asbestos content so determinations of their abatement and disposal (if required) can be made.

Summary of Lead-In-Paint Screening-

The results of the testing have determined the following lead painted surface was found to be above the State of Connecticut toxic level of lead in paint:

<u>Location</u>	<u>Surface Tested</u>	<u>Reading</u>
North Clarigester	Decking	1.5
North Clarigester	Wheel/Main Drive	2.2
South Clarigester	Decking	1.5
South Clarigester	Wheel/Main Drive	1.5
Pump Station #1	Conduit Pole	2.1
Pump Station #2	Conduit Pole	3.5
North Frickling Filter	Exterior Wall	1.2
North Frickling Filter	Rim	1.5

See Enclosure (5) for the lead screening results.



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OSHA and lead in construction

In addition there are requirements concerning employee exposure to lead in the workplace that apply to this property (OSHA lead standard 1926.62). Essentially these are federal OSHA standards that contractors you might hire to do renovations, repairs, remodeling/demolition are required to follow.

Regardless of the test results, please note that OSHA does not consider lead-in-construction pre-testing of paint in place as indicative of exposure potential because certain types of work procedures can actually release harmful levels of lead by separating it from the paint and making it airborne as dust. Activities such as dry scraping, sanding or abrading painted surfaces are typical workplace procedures that can create this situation.

Sincerely,

A handwritten signature in cursive script, appearing to read "C. Eident".

Christopher J. Eident CIH, CSP, RS
CEO

- Enclosure 1- Asbestos Lab Results
- Enclosure 2- Chain of Custody
- Enclosure 3- Roster of Suspect Materials
- Enclosure 4- XRF Screening Explanation
- Enclosure 5- Inspectors' Lead Screening Results



Environmental Hazards Services, L.L.C.
 7469 Whitepine Rd
 Richmond, VA 23237
 Telephone: 800.347.4010

Asbestos Bulk Analysis Report

Report Number: 15-06-00361

Client: Mystic Air Quality Consultants
 1204 North Road Rt. 117
 Groton, CT 06340

Received Date: 06/02/2015
 Analyzed Date: 06/05/2015
 Reported Date: 06/05/2015

Project/Test Address: 82 Town Farm Road; Ledyard, CT

Client Number:
 07-2564

Fax Number:
 860-449-8860

Laboratory Results

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
15-06-00361-001	1		Black Brittle; Hard; Inhomogeneous	NAD	100% Non-Fibrous
15-06-00361-002	2		Black Brittle; Hard; Inhomogeneous	NAD	100% Non-Fibrous
15-06-00361-003	3		Black Brittle; Hard; Inhomogeneous	NAD	100% Non-Fibrous
15-06-00361-004	7		Black Tar-Like; Fibrous; Inhomogeneous	NAD	45% Cellulose 55% Non-Fibrous
15-06-00361-005	8		Black Tar-Like; Fibrous; Inhomogeneous	Trace <1% Chrysotile	55% Cellulose 45% Non-Fibrous

Total Asbestos: Trace <1%

3% Chrysotile present in tar-like material.

Environmental Hazards Services, L.L.C

Client Number: 07-2564

Report Number: 15-06-00361

Project/Test Address: 82 Town Farm Road; Ledyard, CT

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
15-06-00361-006	9(Duplicate 1 of 2 Samples)		Black Tar-Like; Fibrous; Inhomogeneous	3% Chrysotile	45% Cellulose 52% Non-Fibrous
Total Asbestos: 3%					
Chrysotile present in tar-like material.					
15-06-00361-007	9(Duplicate 2 of 2 Samples)		Black Tar-Like; Homogeneous	8% Chrysotile	5% Cellulose 87% Non-Fibrous
Total Asbestos: 8%					
15-06-00361-008	10(Duplicate 1 of 2 Samples)		Black Tar-Like; Fibrous; Inhomogeneous	4% Chrysotile	30% Cellulose 10% Fibrous Glass 56% Non-Fibrous
Total Asbestos: 4%					
Chrysotile present in tar-like material.					
15-06-00361-009	11(Duplicate 1 of 2 Samples)		Black Tar-Like; Fibrous; Inhomogeneous	3% Chrysotile	30% Cellulose 15% Fibrous Glass 52% Non-Fibrous
Total Asbestos: 3%					
Chrysotile present in tar-like material.					
15-06-00361-010	10(Duplicate 2 of 2 Samples)		Tan Paint-Like; Black Brittle; Hard; Inhomogeneous	NAD	100% Non-Fibrous
15-06-00361-011	11(Duplicate 2 of 2 Samples)		Tan Paint-Like; Black Brittle; Hard; Inhomogeneous	NAD	100% Non-Fibrous
15-06-00361-012	12		Tan Paint-Like; Black Brittle; Hard; Inhomogeneous	NAD	100% Non-Fibrous

Environmental Hazards Services, L.L.C

Client Number: 07-2564

Report Number: 15-06-00361

Project/Test Address: 82 Town Farm Road; Ledyard, CT

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
15-06-00361-013	13		Black Tar-Like; Homogeneous	3% Chrysotile	2% Cellulose 95% Non-Fibrous
Total Asbestos: 3%					
15-06-00361-014	14			Did Not Analyze (Positive Stop)	
15-06-00361-015	15			Did Not Analyze (Positive Stop)	
15-06-00361-016	16		Black Tar-Like; Fibrous; Inhomogeneous	5% Chrysotile	55% Cellulose 40% Non-Fibrous
Total Asbestos: 5%					
Chrysotile present in top tar layer.					
15-06-00361-017	17			Did Not Analyze (Positive Stop)	
15-06-00361-018	18			Did Not Analyze (Positive Stop)	

Environmental Hazards Services, L.L.C

Client Number: 07-2564

Report Number: 15-06-00361

Project/Test Address: 82 Town Farm Road; Ledyard, CT

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
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QC Sample: 78-M12012-1

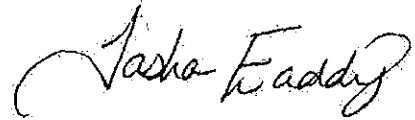
QC Blank: SRM 1866 Fiberglass

Reporting Limit: 1% Asbestos

Method: EPA Method 600/R-93/116, EPA Method 600/M4-82-020

Analyst: Sami Hosn

Reviewed By Authorized Signatory:



Tasha Eaddy
QA/QC Clerk

The condition of the samples analyzed was acceptable upon receipt per laboratory protocol unless otherwise noted on this report. Each distinct component in an inhomogeneous sample was analyzed separately and reported as a composite. Results represent the analysis of samples submitted by the client. Sample location, description, area, volume, etc., was provided by the client. This report cannot be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government. This report shall not be reproduced except in full, without the written consent of the Environmental Hazards Service, L.L.C. California Certification #2319 NY ELAP #11714 NVLAP #101882-0 VELAP 460172. All information concerning sampling location, date, and time can be found on Chain-of-Custody. Environmental Hazards Services, L.L.C. does not perform any sample collection.

Environmental Hazards Services, L.L.C. recommends reanalysis by point count (for more accurate quantification) or Transmission Electron Microscopy (TEM), (for enhanced detection capabilities) for materials regulated by EPA NESHAP (National Emission Standards for Hazardous Air Pollutants) and found to contain less than ten percent (<10%) asbestos by polarized light microscopy (PLM). Both services are available for an additional fee.

400 Point Count Analysis, where noted, performed per EPA Method 600/R-93/116 with a Reporting Limit of 0.25%.

* All California samples analyzed by Polarized Light Microscopy, EPA Method 600/M4-82-020, Dec. 1982.

LEGEND: NAD = no asbestos detected



Environmental Hazards Services, LLC
 www.ehs-lab.com 7469 Whitepine Rd
 (800)347-4010 Richmond, VA
 (804)275-4907 (fax) 23237

Asbestos Chain-of-Custody

*Did not rec'd samples 4-6, rec'd duplicate samples of 7-9. rec'd 6/14/15
 9-10-11

15-06-00361



Due Date:
 06/05/2015
 (Friday)
 AE

City/state/zip: Groton, Ct. 06340

Acct. Number: 07-2564

City/State(required) LEDYARD, CT

Mystic Air Client: LEDYARD WPCA

Company Name: Mystic Air Quality Consultants Address: 1204 North Rd., Groton, CT 06340

Phone: 860 449 8903 Fax: 860 449 8903 E-mail: maqc2@aol.com

Project Name and Address: 82 TOWN FARM ROAD

Collected by: GREG EPENT Signature: *[Signature]*

Turn around time: Standard One day (will call ahead)

No.	Client's Sample No.	Date Collected	PLM Analysis	Other Analysis Specify	Material Description	Sample Location	Comments
1	1-3	6/1/15	X	Pos. stop	COATING	*SEE RASTER*	*BULK*
2	4-6				FLASHING		
3	7-9				PIPE COVERING		
4	10-12				COATING		
5	13-15				FLASHING		
6	16-18	X	X	X	PIPE COVERING	X	X
7							
8							
9							
10							
11							
12							
13							
14							
15							

Released by: GREG EPENT Signature: *[Signature]* date: 6/1/15

Received by: S. Nicolita Signature: *[Signature]* date: 6-2-15



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CLARIGESTERS

SUSPECT ASBESTOS CONTAINING MATERIALS ROSTER

SITE: 82 TOWN FARM ROAD
LEDYARD, CT

DATE: 6/1/15

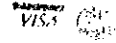
Demo Pre-Reno Limited & Directed

Sample Numbers	Type of Material	Quantity	Condition	Location of Materials
1-3	COATING	~3000 ft ²	DAMAGED	INSIDE SOUTH CLARIGESTER
ACM 4-6	FLASHING	6 ft ²		ON WALLS AND PEBRIS AT BOTTOM OF TANK
7-9	PIPE COVERING	10 ft ²		ON ELBOWS OF PIPE SOUTH CLARIGESTER
				ON PIPE SOUTH CLARIGESTER
10-12	COATING	~3000 ft ²		INSIDE NORTH CLARIGESTER
13-15	FLASHING	6 ft ²		ON WALLS AND PEBRIS AT BOTTOM of tank
16-18	PIPE COVERING	30 ft ²	X	ON ELBOWS + ENDS OF PIPE NORTH CLARIGESTER
				ON PIPE NORTH CLARIGESTER

COMMENTS: * AREAS WERE NOT ABLE TO BE INSPECTED DUE TO CONFINED SPACE LIMITATIONS * (ALSO WATER OBSTACLES)

Inspector: GREG EIDENT

Page 1 of 1





Mystic Air Quality Consultants, Inc.

1204 North Road (Rt. 117) Groton, Connecticut 06340

Information on Lead Testing

Lead-Based Paint Survey

Testing Equipment: LPA-1 RMD, XRF

For the lead based paint survey, measurements were taken with a calibrated XRF (X-ray Fluorescence) Spectrum Analyzer, using the State of Connecticut testing protocol for spectrum analyzers. Measurements were taken in each area of at least one accessible painted wall, ceiling, window, door, baseboard, and any other painted surface (except factory painted metal surfaces in good condition).

Locations of these areas is indicated alphabetically, with (A) being the street side of the building and/or room, and (B), (C) and (D) respectively following in a clockwise direction.

If the accompanying report sheets have more than one measurement listed per substrate, the last measurement is the definitive one for that surface.

Communications (24 hours): _____

Office: (860) 449-8903

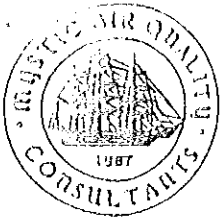
website: www.mysticair.com

FAX: (860) 449-8860

e-mail: maqc2@aol.com

Toll Free: 1 (800) 247-7746

Enclosure 4 Page 1 Of 2



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Limitations and Uses of Inspection Data

This inspection for lead base painted surfaces is a "representative areas" survey as indicated on page 1 of this enclosure.

Limitations of this report

This report does not make any claims about the surfaces in the structure that are of the same type of material, but which were not themselves tested.

As a specific example of this limitation, if only one window in a room were tested, its results can not be presumed to be applicable to other windows in that (or any other) room. If any assumptions are to be made from the results of this report, they would have to be made in favor of treating an area as if it were lead-base painted (in a "universal precaution" approach).

Use of this report

This report **can not** be used as a lead abatement or management plan.

The data in this report could only become part of a lead abatement or management plan if it were to be augmented by

- (a) assumptions that all non-tested areas were lead based
- or
- (b) with additional testing to determine each specific area as it will be addressed in the lead abatement or management plan.

Next step for lead based paint

Subsequent steps to this "representative areas" inspection include creation of a written lead abatement plan, or a lead management plan, in cases where lead based paint was detected and the authority initiating the inspection considers the presence of lead based paint cause for instituting an abatement and/or management activity.

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Enclosure 4 Page 2 Of 2



Mystic Air Quality Consultants, Inc.

1204 North Road (Rt. 117) Groton, Connecticut 06340

Client:

LEDYARO WPCA

Site Address:

82 TOWN FARM ROAD
LEDYARO, CT

Date:

6/1/15

* XRF SCREENING *

ROOM	SURFACE TESTED	Reading mg/cm2	Lead yes/no	Paint Condition.
CLARIGESTER NORTH	EXTERIOR WALL NORTH	.5	No	DAMAGED
	EXTERIOR WALL SOUTH	.6	No	
	PIPE	.5	No	
	LADDER	.3	No	
	STAIR CASE	0	No	
	RAILING	.3	No	
	DECKING/WALKWAY	1.5	YES	
	WHEEL/MAIN DRIVE	2.2	YES	
	POWER/CONTROL BOX	.1	No	X

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ENCLOSURE 5 PAGE 1 OF 4



Mystic Air Quality Consultants, Inc.

1204 North Road (Rt. 117) Groton, Connecticut 06340

Client:

LEDYARD WPCA

Site Address:

82 TOWN FARM ROAD
LEDYARD, CT 06339

Date:

6/1/15

CAL 1.0, 0.9, 0.9

XRF SCREENING #

ROOM	SURFACE TESTED	Reading mg/cm2	Lead yes/no	Paint Condition
CLARIGESTER SOUTH	EXTERIOR WALL (NORTH)	.2	No	DAMAGED
	EXTERIOR WALL (SOUTH)	.2	No	
	DISCHARGE PIPE	0	No	
	STAR CASE	0	No	
	LADDER	.3	No	
	DECKING/WALKWAY	1.5	YES	
	WHEEL/MAIN DRIVE	1.5	YES	
	RAILING	.3	No	
	POWER/CONTROL BOX	0	No	X

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Inspector: GREG EDENT

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Toll Free: 1 (800) 247-7746



Mystic Air Quality Consultants, Inc.

1204 North Road (Rt. 117) Groton, Connecticut 06340

Client:

LEDYARD WPCA

Site Address:

82 TOWN FARM ROAD
LEDYARD, CT

Date:

6/1/15

* XRF SCREENING *

ROOM	SURFACE TESTED	Reading mg/cm2	Lead yes/no	Paint Condition.
WELL #1 (SOUTHERN MOST)	LID	.5	No	DAMAGED
	SIDE	0		
X	POLE	.6		
WELL #2 (MIDDLE)	LID	.3		
" "	SIDE	.2		
WELL #3 (NORTHERN MOST)	LID	.4		
" "	SIDE	.2		
PUMP STATION #1	LID	.7	X	
" "	CONDUIT POLE	2.1	YES	
PUMP STATION #2	LID	.6	No	
" "	CONDUIT POLE	3.5	YES	X

Communications (24 hours):

Office: (860) 449-8903

website: www.mysticair.com

Inspector: GREG ELDENT

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ENCLOSURE 5 PAGE 3 OF 11



Mystic Air Quality Consultants, Inc.

1204 North Road (Rt. 117) Groton, Connecticut 06340

Client:

LEOYARD WPCA

Site Address:

82 TOWN FARM ROAD
LEOYARD, CT 06339

Date:

6/1/15

* XRF SCREENING

ROOM	SURFACE TESTED	Reading mg/cm2	Lead yes/no	Paint Condition.
TRICKLING FILTER (NORTH)	EXTERIOR WALL	1.2	YES	DAMAGED
	RIM	1.5	YES	
	INTERIOR WALL	0	NO	
X	TURNING UNIT	0	NO	
TRICKLING FILTER (SOUTH)	EXTERIOR WALL	0		
	RIM	0		
	INTERIOR WALL	0		
X	TURNING UNIT	0	X	X

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1000 THE GROTON ROAD