

December 12, 2019
Revised December 23, 2019



Dammon Engineering, Inc.
554 Old Spanish Trail
Slidell, Louisiana 70458

Attn: Mr. David Dammon
E: david@dammonengineering.com
P: 985.649.5832

Re: Limited Asbestos Bulk Sampling Services
State Police Troop L Headquarters
2600 North Causeway Boulevard
Mandeville, Louisiana
Terracon Project No. ET197285

Dear Mr. Dammon:

Terracon Consultants, Inc. (Terracon) conducted limited asbestos bulk sampling on December 3 and 16, 2019, at the State Police Troop L Headquarters in Mandeville, Louisiana. As outlined in Terracon Proposal No. PET197285 dated November 6, 2019, our scope of services was limited to the collection of bulk samples of suspect asbestos-containing materials (ACM) within the mechanical room (area of inspection) of the subject structure.

Limited asbestos bulk sampling was performed on December 3 and December 16, 2019, by Steven Latiolais, an LDEQ certified asbestos inspector (AI#: 200658). Fifteen asbestos bulk samples were collected from five homogeneous areas of suspect ACM. Bulk samples were submitted under chain of custody to EMSL Analytical, Inc. of Cinnaminson, New Jersey (NVLAP Accreditation No 101048-0; LELAP Accreditation No 04127) and EMSL Analytical, Inc. of Baton Rouge, Louisiana (NVLAP Accreditation No 200375-0; LELAP Accreditation No 01950) for analysis by polarized light microscopy with dispersion staining techniques per EPA methods (40 CFR 763, Subpart E). The asbestos content, if applicable, was determined by microscopic visual estimation.

ACM was confirmed to be present within the subject structure. Please review Table 1 below for an asbestos sample summary.

Table 1
Summary of Asbestos Sampling and Analytical Results

HA	Sample Number	Material Description	Material Location	Condition	Lab Results
01	01-1	White 6" mudded pipe elbow	Mechanical Room	Good	None Detected
	01-2				None Detected
	01-3				None Detected
02	02-1	White drywall and joint compound	Mechanical Room	Damaged	Drywall – None Detected Joint Compound – None Detected
	02-2				Drywall – None Detected Joint Compound – None Detected
	02-3				Drywall – None Detected Joint Compound – None Detected
03	03-1	Black HVAC vibration dampener	Mechanical Room	Good	None Detected
	03-2				None Detected
	03-3				None Detected
04	04-1	Black/gray HVAC air handler jacket	Mechanical Room	Good	None Detected
	04-2				None Detected
	04-3				None Detected
05	05-1	Black, tar-like pipe/pipe insulation covering	Mechanical Room at pipe junctions and pumps	Good	Layer 1 – 13%Chrysotile Layer 2 – 13% Chrysotile
	05-2				Not Analyzed – Positive Stop
	05-3				Not Analyzed – Positive Stop

Asbestos was detected in the black, tar-like pipe covering material. This material is considered Category II non-friable ACM. Terracon estimates approximately 24 square feet of this material is applied to soft fiberglass pipe insulations. According to LDEQ and EPA NESHAP regulations, Category II non-friable ACM is any material, excluding Category I non-friable ACM, that when dry, cannot be crumbled, pulverized, or reduced to powder by hand pressure. Category II non-friable ACM that has a high probability of becoming or has become crumbled, pulverized, or reduced to powder by the forces expected to act on the material in the course of demolition operations are considered Regulated Asbestos Containing Materials (RACM) and are required to be abated prior to demolition.

Terracon recommends that the pipe insulation and covering be removed prior to any renovation or demolition work that may disturb it. Terracon can assist Dammon Engineering, Inc. by preparing technical specifications (Project Design) for ACM removal. The specifications should include the scope of work, personal protective equipment, work procedures, air monitoring, disposal requirements, and related documentation.

It should be noted that suspect materials, other than those identified during this limited asbestos bulk sampling may exist within the building. Should suspect materials other than those that were identified during this sampling event be uncovered during demolition, those materials should be

Limited Asbestos Bulk Sampling

State Police Troop L ■ Mandeville, LA

December 12, 2019 ■ Terracon Project No. ET197285 REV1

assumed asbestos-containing until sampling and analysis can confirm or deny their asbestos content.

This limited asbestos survey was conducted in a manner consistent with the level of care and skill ordinarily exercised by members of the profession currently practicing under similar conditions in the same locale. The results, findings, conclusions and recommendations expressed in this report are based on conditions observed during our limited survey of the building. The information contained in this report is relevant to the date on which this survey was performed and should not be relied upon to represent conditions at a later date. This report has been prepared on behalf of and exclusively for use by Dammon Engineering, Inc. for specific application to their project as discussed. This report is not a bidding document. Contractors or consultants reviewing this report must draw their own conclusions regarding further investigation or remediation deemed necessary. Terracon does not warrant the work of regulatory agencies, laboratories or other third parties supplying information which may have been used in the preparation of this report. No warranty, express or implied is made.

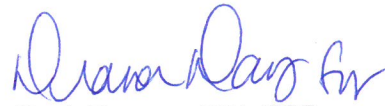
Terracon appreciates the opportunity to provide this service. If you have any questions regarding this report, please contact the undersigned at (504) 818-3638.

Sincerely,

Terracon Consultants, Inc.



Steven Latiolais
Staff Industrial Hygienist



Rush Bowers, CIH, CSP
Senior Industrial Hygiene Consultant

Attachments:

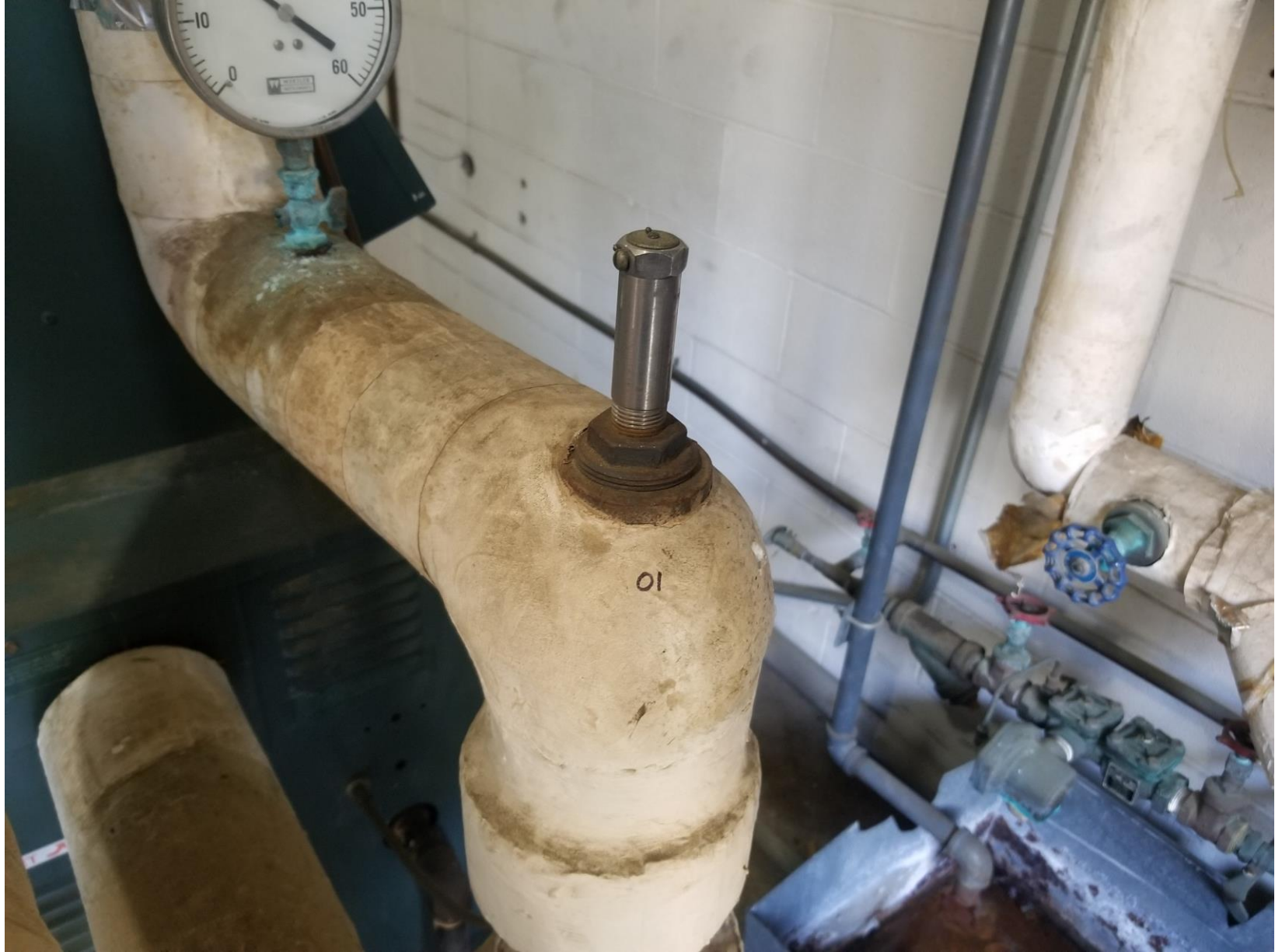
Photograph Log

Exhibit(s)

Laboratory Analysis Report

Accreditations

Photograph Log



View of HA-01: White 6" mudded pipe elbow.



View of HA-02: White drywall and joint compound.



View of HA-03: Black HVAC vibration dampener.

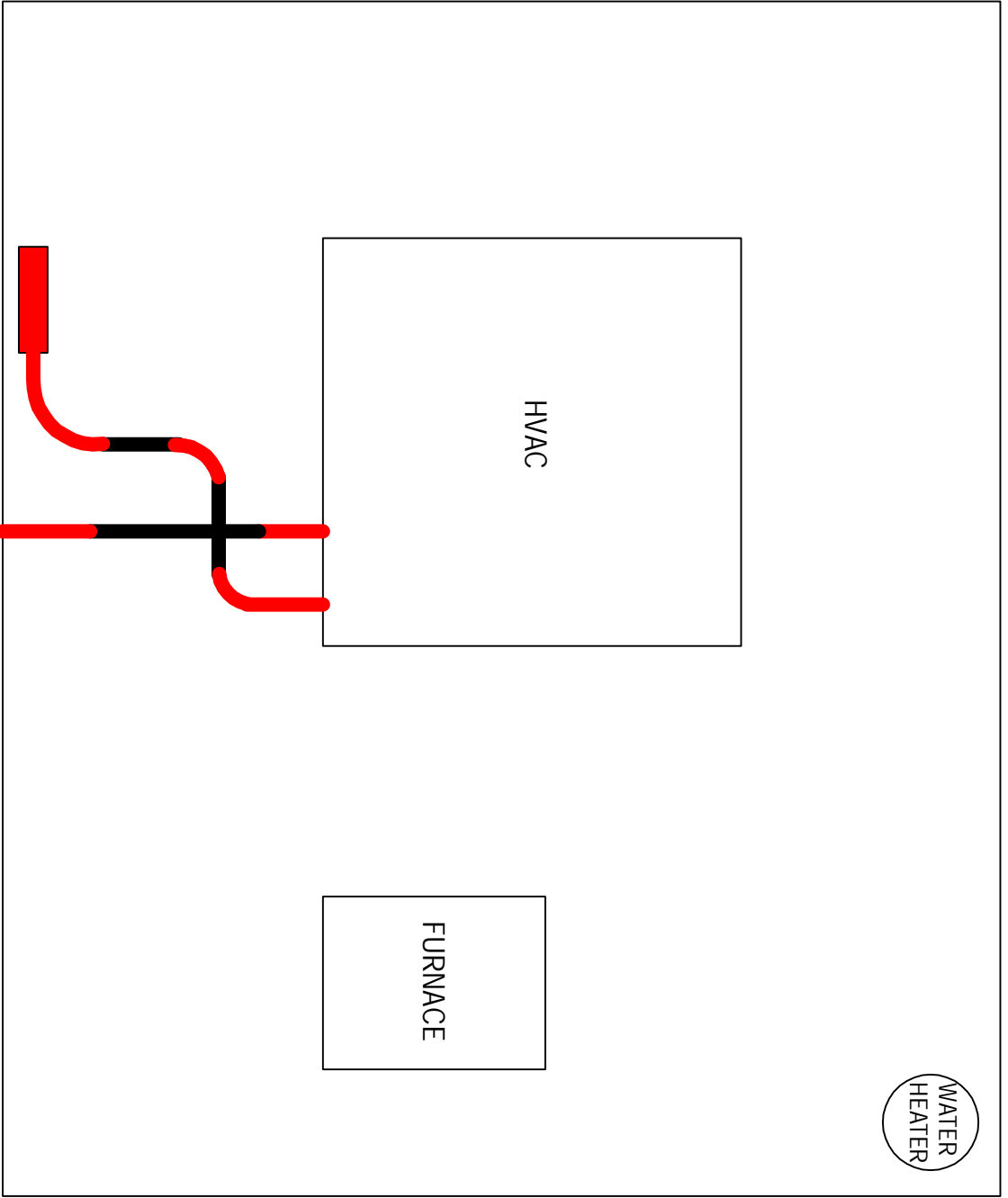


View of HA-04: Black/gray HVAC air handler jacket.



View of HA-05: Black, tar like pipe/pipe insulation covering.

Exhibit(s)



WATER HEATER

HVAC

FURNACE



LEGEND

ACM BLACK, TAR LIKE COVERING ON PIPES/PIPE INSULATION

Project Mgr:	SML	Project No:	ET191285
Drawn By:	SML	Scale:	NOT TO SCALE
Checked By:	JMM	File No:	EXHIBIT 1.dwg
Approved By:	JRB	Date:	DECEMBER 2019

Terracon
 Consulting Engineers and Scientists
 524 ELMWOOD PARK BLVD NEW ORLEANS, LA 70123
 (504) 818-3638

CONFIRMED ACM LOCATIONS - MECHANICAL ROOM
 LOUISIANA STATE POLICE TROOP L
 2600 N. CAUSEWAY BOULEVARD
 MANDEVILLE, LA

EXHIBIT
1.0

THIS DIAGRAM IS FOR GENERAL LOCATION ONLY AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES.

Laboratory Analysis Report



EMSL Analytical, Inc.

18369 Petroleum Drive Baton Rouge, LA 70809
Tel/Fax: (225) 755-1920 / (225) 755-1989
<http://www.EMSL.com> / batonrougelab@emsl.com

EMSL Order: 251907727
Customer ID: TCNL25
Customer PO: ET197285
Project ID:


Attention: Steven Latiolais
Terracon Consultants
524 Elmwood Park Blvd.
Ste. 170
New Orleans, LA 70123
Project: Troop L/ET197285

Phone: (504) 818-3638
Fax:
Received Date: 12/17/2019 10:40 AM
Analysis Date: 12/17/2019
Collected Date: 12/16/2019

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
05-01-Wrap One <small>251907727-0001</small>	Mechanical Room - Pipe/Pipe Insulation Covering	Black Fibrous Homogeneous	20% Glass	67% Non-fibrous (Other)	13% Chrysotile
05-01-Wrap Two <small>251907727-0001A</small>	Mechanical Room - Pipe/Pipe Insulation Covering	Black Fibrous Homogeneous	20% Glass	67% Non-fibrous (Other)	13% Chrysotile
05-02 <small>251907727-0002</small>	Mechanical Room - Pipe/Pipe Insulation Covering				Positive Stop (Not Analyzed)
05-03 <small>251907727-0003</small>	Mechanical Room - Pipe/Pipe Insulation Covering				Positive Stop (Not Analyzed)

Analyst(s) _____
Tyler Pullig (2)



Jamie Laginess, Laboratory Operations Manager
or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method"), but augmented with procedures outlined in the 1993 ("final") version of the method. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. All samples received in acceptable condition unless otherwise noted. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. EMSL recommends gravimetric reduction for all non-friable organically bound materials prior to analysis. Estimation of uncertainty is available on request.

Samples analyzed by EMSL Analytical, Inc. Baton Rouge, LA NVLAP Lab Code 200375-0, LELAP 01950, TX 300238

Initial report from: 12/17/2019 17:25:37



EMSL ANALYTICAL, INC.
LABORATORY PRODUCTS TRAINING

Asbestos Bulk Building Material Chain of Custody

EMSL Order Number (Lab Use Only):

7727

18369 Petroleum Drive

Baton Rouge, LA 70809

PHONE: (225) 755-1920

FAX: (225) 755-1989

Company: Terracon		EMSL-Bill to: <input type="checkbox"/> Same <input checked="" type="checkbox"/> Different If Bill to is Different note instructions in Comments**	
Street: 524 Elmwood Park Boulevard Suite 170		Third Party Billing requires written authorization from third party	
City: New Orleans	State/Province: LA	Zip/Postal Code: 70123	Country: US
Report To (Name): Steven Latiolais		Telephone #: 504-818-3638	
Email Address: steven.latiolais@terracon.com		Fax #:	Purchase Order: ET197285
Project Name/Number: Troop UET197285		Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email <input type="checkbox"/> Mail	
U.S. State Samples Taken: LA		CT Samples: <input type="checkbox"/> Commercial/Taxable <input type="checkbox"/> Residential/Tax Exempt	

Turnaround Time (TAT) Options* - Please Check

- 3 Hour 6 Hour 24 Hour 48 Hour 72 Hour 96 Hour 1 Week 2 Week

*For TEM Air 3 hr through 6 hr, please call ahead to schedule. *There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service. Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.

PLM - Bulk (reporting limit)

TEM - Bulk

- PLM EPA 600/R-93/116 (<1%)
 PLM EPA NOB (<1%)
 Point Count 400 (<0.25%) 1000 (<0.1%)
 Point Count w/Gravimetric 400 (<0.25%) 1000 (<0.1%)
 NIOSH 9002 (<1%)
 NY ELAP Method 198.1 (friable in NY)
 NY ELAP Method 198.6 NOB (non-friable-NY)
 OSHA ID-191 Modified
 Standard Addition Method

- TEM EPA NOB - EPA 600/R-93/116 Section 2.5.5.1
 NY ELAP Method 198.4 (TEM)
 Chatfield Protocol (semi-quantitative)
 TEM % by Mass - EPA 600/R-93/116 Section 2.5.5.2
 TEM Qualitative via Filtration Prep Technique
 TEM Qualitative via Drop Mount Prep Technique

Other

Check For Positive Stop - Clearly Identify Homogenous Group Date Sampled: 12/16/2019

Samplers Name: Steven M. Latiolais

Samplers Signature: *[Signature]*

Sample #	HA #	Sample Location	Material Description
05-1	05	Mechanical Room	Black, tar-like pipe/pipe insulation covering
05-2	05	Mechanical Room	Black, tar-like pipe/pipe insulation covering
05-3	05	Mechanical Room	Black, tar-like pipe/pipe insulation covering

Client Sample # (s):	Total # of Samples:
Relinquished (Client): <i>[Signature]</i> to FedEx Date: 12/16/19 Time: 1715	
Received (Lab): <i>[Signature]</i> Date: 12/17/19 Time: 10:40am	

Comments/Special Instructions:
 Bill To: Terracon, 524 Elmwood Park Boulevard, Suite 170, New Orleans, LA, 70123, US
 Attention: Steven Latiolais Phone: 504-818-3638 Email: Steven.Latiolais@terracon.com Purchase Order:

ⓔ 7958 0297 7032
 1 of 1



EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077

Tel/Fax: (800) 220-3675 / (856) 786-5974

<http://www.EMSL.com> / cinnasblab@EMSL.com

EMSL Order: 041934802

Customer ID: TCNL25

Customer PO: ET197285

Project ID:

Attention: Steven Latiolais
Terracon Consultants
524 Elmwood Park Blvd.
Ste. 170
New Orleans, LA 70123

Project: 2660 N. Causeway / ET197285

Phone: (504) 818-3638

Fax:

Received Date: 12/05/2019 9:15 AM

Analysis Date: 12/05/2019 - 12/07/2019

Collected Date: 12/03/2019

Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
01-1 <i>041934802-0001</i>	White 6" Mudded Pipe Elbow	White Fibrous Homogeneous	30% Cellulose 10% Min. Wool	60% Non-fibrous (Other)	None Detected
01-2 <i>041934802-0002</i>	White 6" Mudded Pipe Elbow	White Fibrous Homogeneous	20% Cellulose 10% Min. Wool	70% Non-fibrous (Other)	None Detected
01-3 <i>041934802-0003</i>	White 6" Mudded Pipe Elbow	White Fibrous Homogeneous	30% Cellulose 20% Min. Wool	50% Non-fibrous (Other)	None Detected
02-1-Drywall <i>041934802-0004</i>	White Drywall	Brown/White Fibrous Homogeneous	20% Cellulose 8% Glass	72% Non-fibrous (Other)	None Detected
02-1-Joint Compound <i>041934802-0004A</i>	Joint Compound	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
02-2-Drywall <i>041934802-0005</i>	White Drywall	Brown/White Fibrous Homogeneous	20% Cellulose 10% Glass	70% Non-fibrous (Other)	None Detected
02-2-Joint Compound <i>041934802-0005A</i>	Joint Compound	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
02-3-Drywall <i>041934802-0006</i>	White Drywall	Brown/White Fibrous Homogeneous	30% Cellulose 5% Glass	65% Non-fibrous (Other)	None Detected
02-3-Joint Compound <i>041934802-0006A</i>	Joint Compound	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
03-1 <i>041934802-0007</i>	Black HVAC Vibration Dampener	Black Fibrous Homogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
03-2 <i>041934802-0008</i>	Black HVAC Vibration Dampener	Black Fibrous Homogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
03-3 <i>041934802-0009</i>	Black HVAC Vibration Dampener	Black Non-Fibrous Homogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
04-1 <i>041934802-0010</i>	Black/Gray HVAC Air Handler Jacket	Gray/Black Fibrous Homogeneous	65% Min. Wool	35% Non-fibrous (Other)	None Detected
04-2 <i>041934802-0011</i>	Black/Gray HVAC Air Handler Jacket	Gray/Black Fibrous Homogeneous	60% Min. Wool	40% Non-fibrous (Other)	None Detected
04-3 <i>041934802-0012</i>	Black/Gray HVAC Air Handler Jacket	Black Fibrous Homogeneous	60% Min. Wool 30% Glass	10% Non-fibrous (Other)	None Detected

Initial report from: 12/07/2019 15:16:19



EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077

Tel/Fax: (800) 220-3675 / (856) 786-5974

<http://www.EMSL.com> / cinnasblab@EMSL.com

EMSL Order: 041934802

Customer ID: TCNL25

Customer PO: ET197285

Project ID:

Analyst(s)

Dave Poitras (5)

Meshal Masih (10)

Samantha Rundstrom, Laboratory Manager
or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method"), but augmented with procedures outlined in the 1993 ("final") version of the method. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. All samples received in acceptable condition unless otherwise noted. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. EMSL recommends gravimetric reduction for all non-friable organically bound materials prior to analysis. Estimation of uncertainty is available on request.

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036, PA ID# 68-00367, LA #04127

Initial report from: 12/07/2019 15:16:19

Accreditations

STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY

certifies that

Steven Latiolais

**Has complied with all requirements of the Louisiana Department of Environmental Quality
and is authorized to perform the duties of**

Asbestos Inspector

Accreditation No. MI200658

AI No. 200658

Date of Issuance March 13, 2019

Expiration March 21, 2020

**Failure to comply with all applicable provisions of La. R.S. 2025.E. (1)(a) and La. R.S. 2025.F. (2)(a)
may result in civil and/or criminal enforcement actions by the State.**

Paul Bergeron

**Permit Support Services Division
Office of Environmental Services**



**STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY**

Is hereby granting a Louisiana Environmental Laboratory Accreditation to



**EMSL Analytical Inc
18369 Petroleum Dr
Baton Rouge, Louisiana 70809**

**Agency Interest No. 205208
Activity No. ACC20190001**

According to the Louisiana Administrative Code, Title 33, Part I, Subpart 3, LABORATORY ACCREDITATION, the State of Louisiana formally recognizes that this laboratory is technically competent to perform the environmental analyses listed on the scope of accreditation detailed in the attachment.

The laboratory agrees to perform all analyses listed on this scope of accreditation according to the Part I, Subpart 3 requirements and acknowledges that continued accreditation is dependent on successful ongoing compliance with the applicable requirements of Part I. Please contact the Department of Environmental Quality, Louisiana Environmental Laboratory Accreditation Program (LELAP) to verify the laboratory's scope of accreditation and accreditation status.

Accreditation by the State of Louisiana is not an endorsement or a guarantee of validity of the data generated by the laboratory. Accreditation of the environmental laboratory does not imply that a product, process, system, or person is approved by LELAP. To be accredited initially and maintain accreditation, the laboratory agrees to participate in two single-blind, single-concentration PT studies, where available, per year for each field of testing for which it seeks accreditation or maintains accreditation as required in LAC 33:I.4711.

Cheryl Sonnier Nolan
Administrator
Public Participation and Permit Support Services Division

Issued Date:

27 June 2019

Effective Date: July 1, 2019
Expiration Date: June 30, 2020
Certificate Number: 01950



STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY

Effective Date: July 1, 2019

18369 Petroleum Dr, Baton Rouge, Louisiana 70809

Certificate Number: 01950

EMSL Analytical Inc
AI Number: 205208
Activity No. ACC20190001
Expiration Date: June 30, 2020

Air Emissions

Analyte	Method Name	Method Code	Type	AB
1520 - Asbestos	40 CFR Part 763, Subpart E, Appendix A (Mandatory TEM)	2062	NVLAP	LA
100683 - Fungal - Direct Examination (Air)	EMSL Micro-SOP-201	9321	A2LA	LA
1075 - Lead	NIOSH 7082, Rev.2	90012230	A2LA	LA

Non Potable Water

Analyte	Method Name	Method Code	Type	AB
NONE	NONE	NONE	NONE	NONE

Solid Chemical Materials

Analyte	Method Name	Method Code	Type	AB
100095 - Asbestos in Bulk Insulation	40 CFR 763, Subpart E, Appendix E (Section 1.PLM)	2004	NVLAP	LA
100681 - Fungal - Direct Examination (Bulk)	EMSL Micro-SOP-200	9322	A2LA	LA
100682 - Fungal - Direct Examination (Surface)	EMSL Micro-SOP-200	9322	A2LA	LA
1075 - Lead	EPA 3050	10135203	A2LA	LA
1075 - Lead	EPA 7000	10157401	A2LA	LA
1520 - Asbestos	EPA 600/R-93/116	10294583	NVLAP	LA

Biological Tissue

Analyte	Method Name	Method Code	Type	AB
NONE	NONE	NONE	NONE	NONE



**STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY**

Is hereby granting a Louisiana Environmental Laboratory Accreditation to



**EMSL Analytical Inc
200 Rt 130 N
Cinnaminson, New Jersey 08077**

**Agency Interest No. 131900
Activity No. ACC20190002**

According to the Louisiana Administrative Code, Title 33, Part I, Subpart 3, LABORATORY ACCREDITATION, the State of Louisiana formally recognizes that this laboratory is technically competent to perform the environmental analyses listed on the scope of accreditation detailed in the attachment.

The laboratory agrees to perform all analyses listed on this scope of accreditation according to the Part I, Subpart 3 requirements and agrees to adapt to any changes in the requirements. It also acknowledges that continued accreditation is dependent on successful ongoing compliance with the applicable requirements of Part I and the 2009 TNI Standard by which the laboratory was assessed. Please contact the Department of Environmental Quality, Louisiana Environmental Laboratory Accreditation Program (LELAP) to verify the laboratory's scope of accreditation and accreditation status.

Accreditation by the State of Louisiana is not an endorsement or a guarantee of validity of the data generated by the laboratory. Accreditation of the environmental laboratory does not imply that a product, process, system, or person is approved by LELAP. To be accredited initially and maintain accreditation, the laboratory agrees to participate in two single-blind, single-concentration PT studies, where available, per year for each field of testing for which it seeks accreditation or maintains accreditation as required in LAC 33:I.4711.

Cheryl Sonnier Nolan
Administrator
Public Participation and Permit Support Services Division

Issued Date: 21 June 2019
Effective Date: **July 1, 2019**
Expiration Date: **June 30, 2020**
Certificate Number: **04127**



STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY

EMSL Analytical Inc
AI Number: 131900
Activity No.: ACC20190002
Expiration Date: June 30, 2020

Effective Date: July 1, 2019

200 Rt 130 N, Cinnaminson, New Jersey 08077

Certificate Number: 04127

Air Emissions

Analyte	Method Name	Method Code	Type	AB
100173 - Asbestos by Phase Contrast Microscopy	NIOSH 7400 (A Rules)	899	NELAP	NJ
100131 - Airborne Asbestos	40 CFR Part 763, Subpart E, Appendix A (Mandatory TEM)	2062	NELAP	NJ
100683 - Fungal - Direct Examination (Air)	EMSL 05-TP-003.5	2885	AIHA	LA
100679 - Fungal Growth in Culturable Air Samples	EMSL SOP M005	2887	AIHA	LA
100231 - Lead in Paint	EPA 7420	10164406	AIHA	LA
100233 - Lead in Soil	EPA 7420	10164406	AIHA	LA
100232 - Lead in Wipes	EPA 7420	10164406	AIHA	LA
100230 - Lead in Airborne Dust	NIOSH 7082, Rev.2	90012230	AIHA	LA
1000 - Aluminum	NIOSH 7300	90012401	AIHA	LA
1005 - Antimony	NIOSH 7300	90012401	AIHA	LA
1010 - Arsenic	NIOSH 7300	90012401	AIHA	LA
1015 - Barium	NIOSH 7300	90012401	AIHA	LA
1020 - Beryllium	NIOSH 7300	90012401	AIHA	LA
1023 - Bismuth	NIOSH 7300	90012401	AIHA	LA
1025 - Boron	NIOSH 7300	90012401	AIHA	LA
1030 - Cadmium	NIOSH 7300	90012401	AIHA	LA
1035 - Calcium	NIOSH 7300	90012401	AIHA	LA
1040 - Chromium	NIOSH 7300	90012401	AIHA	LA
1050 - Cobalt	NIOSH 7300	90012401	AIHA	LA
1055 - Copper	NIOSH 7300	90012401	AIHA	LA
1057 - Gallium	NIOSH 7300	90012401	AIHA	LA
1060 - Gold	NIOSH 7300	90012401	AIHA	LA
1070 - Iron	NIOSH 7300	90012401	AIHA	LA
1075 - Lead	NIOSH 7300	90012401	AIHA	LA
1080 - Lithium	NIOSH 7300	90012401	AIHA	LA
1085 - Magnesium	NIOSH 7300	90012401	AIHA	LA
1090 - Manganese	NIOSH 7300	90012401	AIHA	LA
1100 - Molybdenum	NIOSH 7300	90012401	AIHA	LA
1105 - Nickel	NIOSH 7300	90012401	AIHA	LA
1115 - Palladium	NIOSH 7300	90012401	AIHA	LA
1909 - Phosphorus	NIOSH 7300	90012401	AIHA	LA
1120 - Platinum	NIOSH 7300	90012401	AIHA	LA
1125 - Potassium	NIOSH 7300	90012401	AIHA	LA
1140 - Selenium	NIOSH 7300	90012401	AIHA	LA
1150 - Silver	NIOSH 7300	90012401	AIHA	LA
1162 - Tellurium	NIOSH 7300	90012401	AIHA	LA
1165 - Thallium	NIOSH 7300	90012401	AIHA	LA
1175 - Tin	NIOSH 7300	90012401	AIHA	LA
1180 - Titanium	NIOSH 7300	90012401	AIHA	LA
1183 - Tungsten	NIOSH 7300	90012401	AIHA	LA
1185 - Vanadium	NIOSH 7300	90012401	AIHA	LA
1190 - Zinc	NIOSH 7300	90012401	AIHA	LA
1192 - Zirconium	NIOSH 7300	90012401	AIHA	LA
100131 - Airborne Asbestos	NIOSH 7402, Rev.2	90018023	NELAP	NJ

Clients and Customers are urged to verify the laboratory's current certification status with the Louisiana Environmental Laboratory Accreditation Program.

Non Potable Water

Analyte	Method Name	Method Code	Type	AB
1000 - Aluminum	EPA 200.7, Rev.4.4	10013806	NELAP	NJ
1005 - Antimony	EPA 200.7, Rev.4.4	10013806	NELAP	NJ
1010 - Arsenic	EPA 200.7, Rev.4.4	10013806	NELAP	NJ
1015 - Barium	EPA 200.7, Rev.4.4	10013806	NELAP	NJ
1020 - Beryllium	EPA 200.7, Rev.4.4	10013806	NELAP	NJ
1025 - Boron	EPA 200.7, Rev.4.4	10013806	NELAP	NJ
1030 - Cadmium	EPA 200.7, Rev.4.4	10013806	NELAP	NJ
1035 - Calcium	EPA 200.7, Rev.4.4	10013806	NELAP	NJ
1040 - Chromium	EPA 200.7, Rev.4.4	10013806	NELAP	NJ
1050 - Cobalt	EPA 200.7, Rev.4.4	10013806	NELAP	NJ
1055 - Copper	EPA 200.7, Rev.4.4	10013806	NELAP	NJ
1070 - Iron	EPA 200.7, Rev.4.4	10013806	NELAP	NJ
1075 - Lead	EPA 200.7, Rev.4.4	10013806	NELAP	NJ
1085 - Magnesium	EPA 200.7, Rev.4.4	10013806	NELAP	NJ
1090 - Manganese	EPA 200.7, Rev.4.4	10013806	NELAP	NJ
1100 - Molybdenum	EPA 200.7, Rev.4.4	10013806	NELAP	NJ
1105 - Nickel	EPA 200.7, Rev.4.4	10013806	NELAP	NJ
1125 - Potassium	EPA 200.7, Rev.4.4	10013806	NELAP	NJ
1140 - Selenium	EPA 200.7, Rev.4.4	10013806	NELAP	NJ
1150 - Silver	EPA 200.7, Rev.4.4	10013806	NELAP	NJ
1155 - Sodium	EPA 200.7, Rev.4.4	10013806	NELAP	NJ
1165 - Thallium	EPA 200.7, Rev.4.4	10013806	NELAP	NJ
1175 - Tin	EPA 200.7, Rev.4.4	10013806	NELAP	NJ
1180 - Titanium	EPA 200.7, Rev.4.4	10013806	NELAP	NJ
1185 - Vanadium	EPA 200.7, Rev.4.4	10013806	NELAP	NJ
1190 - Zinc	EPA 200.7, Rev.4.4	10013806	NELAP	NJ
1000 - Aluminum	EPA 200.8, Rev.5.4	10014605	NELAP	NJ
1005 - Antimony	EPA 200.8, Rev.5.4	10014605	NELAP	NJ
1010 - Arsenic	EPA 200.8, Rev.5.4	10014605	NELAP	NJ
1015 - Barium	EPA 200.8, Rev.5.4	10014605	NELAP	NJ
1020 - Beryllium	EPA 200.8, Rev.5.4	10014605	NELAP	NJ
1030 - Cadmium	EPA 200.8, Rev.5.4	10014605	NELAP	NJ
1035 - Calcium	EPA 200.8, Rev.5.4	10014605	NELAP	NJ
1040 - Chromium	EPA 200.8, Rev.5.4	10014605	NELAP	NJ
1050 - Cobalt	EPA 200.8, Rev.5.4	10014605	NELAP	NJ
1055 - Copper	EPA 200.8, Rev.5.4	10014605	NELAP	NJ
1070 - Iron	EPA 200.8, Rev.5.4	10014605	NELAP	NJ
1075 - Lead	EPA 200.8, Rev.5.4	10014605	NELAP	NJ
1085 - Magnesium	EPA 200.8, Rev.5.4	10014605	NELAP	NJ
1090 - Manganese	EPA 200.8, Rev.5.4	10014605	NELAP	NJ
1100 - Molybdenum	EPA 200.8, Rev.5.4	10014605	NELAP	NJ
1105 - Nickel	EPA 200.8, Rev.5.4	10014605	NELAP	NJ
1125 - Potassium	EPA 200.8, Rev.5.4	10014605	NELAP	NJ
1140 - Selenium	EPA 200.8, Rev.5.4	10014605	NELAP	NJ
1150 - Silver	EPA 200.8, Rev.5.4	10014605	NELAP	NJ
1155 - Sodium	EPA 200.8, Rev.5.4	10014605	NELAP	NJ
1165 - Thallium	EPA 200.8, Rev.5.4	10014605	NELAP	NJ
1175 - Tin	EPA 200.8, Rev.5.4	10014605	NELAP	NJ
1180 - Titanium	EPA 200.8, Rev.5.4	10014605	NELAP	NJ
1185 - Vanadium	EPA 200.8, Rev.5.4	10014605	NELAP	NJ
1190 - Zinc	EPA 200.8, Rev.5.4	10014605	NELAP	NJ
1075 - Lead	EPA 200.9, Rev.2.2	10015404	NELAP	NJ
1095 - Mercury	EPA 245.1	10036609	NELAP	NJ
1045 - Chromium VI	SM 3500-Cr D, 18th ED	20009001	NELAP	NJ

EMSL Analytical Inc

Effective Date: July 1, 2019

Certificate Number: 04127

AI Number: 131900
Activity No.: ACC20190002
Expiration Date: June 30, 2020

Clients and Customers are urged to verify the laboratory's current certification status with the Louisiana Environmental Laboratory Accreditation Program.

Solid Chemical Materials

Analyte	Method Name	Method Code	Type	AB
100095 - Asbestos in Bulk Insulation	EPA 600/M4-82-020 (PLM)	1488	NELAP	NJ
100030 - Asbestos in Friable Material	EPA 600/M4-82-020 (PLM)	1488	NELAP	NJ
100171 - Asbestos by Transmission Electron Microscopy	NYS DOH ELAP 198.4	2015	State	NY
100172 - Asbestos by Polarized Light Microscopy	NYS DOH ELAP 198.6	2223	State	NY
100681 - Fungal - Direct Examination (Bulk)	EMSL SOP M041	2886	AIHA	LA
100682 - Fungal - Direct Examination (Surface)	EMSL SOP M041	2886	AIHA	LA
100674 - Fungal Growth in Culturable Bulk Samples	EMSL SOP M005	2887	AIHA	LA
100676 - Fungal Growth in Culturable Surface Bulk Samples	EMSL SOP M005	2887	AIHA	LA
1466 - Toxicity Characteristic Leaching Procedure (TCLP)	EPA 1311	10118806	NELAP	NJ
1400 - Acid Digestion of Sediments, Sludges, and soils	EPA 3050B	10135601	NELAP	NJ
1000 - Aluminum	EPA 6010D	10155916	NELAP	NJ
1005 - Antimony	EPA 6010D	10155916	NELAP	NJ
1010 - Arsenic	EPA 6010D	10155916	NELAP	NJ
1015 - Barium	EPA 6010D	10155916	NELAP	NJ
1020 - Beryllium	EPA 6010D	10155916	NELAP	NJ
1025 - Boron	EPA 6010D	10155916	NELAP	NJ
1030 - Cadmium	EPA 6010D	10155916	NELAP	NJ
1035 - Calcium	EPA 6010D	10155916	NELAP	NJ
1040 - Chromium	EPA 6010D	10155916	NELAP	NJ
1050 - Cobalt	EPA 6010D	10155916	NELAP	NJ
1055 - Copper	EPA 6010D	10155916	NELAP	NJ
1070 - Iron	EPA 6010D	10155916	NELAP	NJ
1075 - Lead	EPA 6010D	10155916	NELAP	NJ
1080 - Lithium	EPA 6010D	10155916	NELAP	NJ
1085 - Magnesium	EPA 6010D	10155916	NELAP	NJ
1090 - Manganese	EPA 6010D	10155916	NELAP	NJ
1100 - Molybdenum	EPA 6010D	10155916	NELAP	NJ
1105 - Nickel	EPA 6010D	10155916	NELAP	NJ
1125 - Potassium	EPA 6010D	10155916	NELAP	NJ
1140 - Selenium	EPA 6010D	10155916	NELAP	NJ
1150 - Silver	EPA 6010D	10155916	NELAP	NJ
1155 - Sodium	EPA 6010D	10155916	NELAP	NJ
1160 - Strontium	EPA 6010D	10155916	NELAP	NJ
1165 - Thallium	EPA 6010D	10155916	NELAP	NJ
1175 - Tin	EPA 6010D	10155916	NELAP	NJ
1180 - Titanium	EPA 6010D	10155916	NELAP	NJ
1185 - Vanadium	EPA 6010D	10155916	NELAP	NJ
1190 - Zinc	EPA 6010D	10155916	NELAP	NJ
1000 - Aluminum	EPA 6020B	10156420	NELAP	NJ
1005 - Antimony	EPA 6020B	10156420	NELAP	NJ
1010 - Arsenic	EPA 6020B	10156420	NELAP	NJ
1015 - Barium	EPA 6020B	10156420	NELAP	NJ
1020 - Beryllium	EPA 6020B	10156420	NELAP	NJ
1025 - Boron	EPA 6020B	10156420	NELAP	NJ
1030 - Cadmium	EPA 6020B	10156420	NELAP	NJ
1035 - Calcium	EPA 6020B	10156420	NELAP	NJ

EMSL Analytical Inc

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Solid Chemical Materials

Analyte	Method Name	Method Code	Type	AB
1040 - Chromium	EPA 6020B	10156420	NELAP	NJ
1050 - Cobalt	EPA 6020B	10156420	NELAP	NJ
1055 - Copper	EPA 6020B	10156420	NELAP	NJ
1070 - Iron	EPA 6020B	10156420	NELAP	NJ
1075 - Lead	EPA 6020B	10156420	NELAP	NJ
1085 - Magnesium	EPA 6020B	10156420	NELAP	NJ
1090 - Manganese	EPA 6020B	10156420	NELAP	NJ
1100 - Molybdenum	EPA 6020B	10156420	NELAP	NJ
1105 - Nickel	EPA 6020B	10156420	NELAP	NJ
1125 - Potassium	EPA 6020B	10156420	NELAP	NJ
1140 - Selenium	EPA 6020B	10156420	NELAP	NJ
1150 - Silver	EPA 6020B	10156420	NELAP	NJ
1155 - Sodium	EPA 6020B	10156420	NELAP	NJ
1160 - Strontium	EPA 6020B	10156420	NELAP	NJ
1165 - Thallium	EPA 6020B	10156420	NELAP	NJ
1175 - Tin	EPA 6020B	10156420	NELAP	NJ
1180 - Titanium	EPA 6020B	10156420	NELAP	NJ
1185 - Vanadium	EPA 6020B	10156420	NELAP	NJ
1190 - Zinc	EPA 6020B	10156420	NELAP	NJ
1075 - Lead	EPA 7000B	10157707	NELAP	NJ
1045 - Chromium VI	EPA 7196A	10162400	NELAP	NJ
1075 - Lead	EPA 7420	10164406	NELAP	NJ
1075 - Lead	EPA 7421	10164600	NELAP	NJ
1095 - Mercury	EPA 7471B	10166402	NELAP	NJ
100172 - Asbestos by Polarized Light Microscopy	EPA 600/R-93/116	10294583	NELAP	NJ

Biological Tissue

Analyte	Method Name	Method Code	Type	AB
NONE	NONE	NONE	NONE	NONE

United States Department of Commerce
National Institute of Standards and Technology



Certificate of Accreditation to ISO/IEC 17025:2017

NVLAP LAB CODE: 101048-0

EMSL Analytical, Inc.
Cinnaminson, NJ

*is accredited by the National Voluntary Laboratory Accreditation Program for specific services,
listed on the Scope of Accreditation, for:*

Asbestos Fiber Analysis

*This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017.
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality
management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).*

2019-07-01 through 2020-06-30

Effective Dates



Dana S. Gorman
For the National Voluntary Laboratory Accreditation Program



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

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Email: bellis@emsl.com
<http://www.emsl.com>

ASBESTOS FIBER ANALYSIS

NVLAP LAB CODE 101048-0

Bulk Asbestos Analysis

<u>Code</u>	<u>Description</u>
18/A01	EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples
18/A03	EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

Airborne Asbestos Analysis

<u>Code</u>	<u>Description</u>
18/A02	U.S. EPA's "Interim Transmission Electron Microscopy Analytical Methods-Mandatory and Nonmandatory-and Mandatory Section to Determine Completion of Response Actions" as found in 40 CFR, Part 763, Subpart E, Appendix A.

A handwritten signature in black ink, appearing to read "Dana S. Laman".

For the National Voluntary Laboratory Accreditation Program