

RESOLUTION NO. 2019- 140

A RESOLUTION AUTHORIZING THE ISSUANCE OF AN AMENDATORY SUPPLEMENTAL CHANGE ORDER NO. 3 TO CONTRACT NO. C18-0086, ISSUED TO ENVIRONMENTAL STRATEGIES & APPLICATIONS, INC., MIDDLESEX, NJ, IN THE AMOUNT OF \$13,655.00.

WHEREAS, the City Council of the City of Vineland, on October 9, 2018, adopted Resolution No. 2018-397, entitled “A RESOLUTION AUTHORIZING AN AGREEMENT FOR PROFESSIONAL SERVICES WITH ENVIRONMENTAL STRATEGIES & APPLICATIONS, INC., MIDDLESEX, NJ, FOR PUBLIC WORKS GROUNDWATER CONTAMINATION REMEDIAL SUPPORT, IN AN AMOUNT NOT TO EXCEED \$305,619.00”; and

WHEREAS, N.J.A.C. 5:30-11.1, et seq., sets forth the requirements for the processing of change orders; and

WHEREAS, the Acting City Engineer has requested that an amendment be made to contract awarded to Environmental Strategies & Applications, Inc., Middlesex, NJ for Public Works Groundwater Contamination Remedial Support, as authorized by Resolution No. 2018-397: said amendment is made necessary to provide for asbestos abatement and disposal at the out-of-service maintenance garage, as required by NJDEP prior to demolition of said garage; and

WHEREAS, the Chief Financial Officer has certified that funds for the amendment requested herein are available; now, therefore,

BE IT RESOLVED by the Council of the City of Vineland as follows:

1. THAT Resolution No. October 9, 2018, adopted Resolution No. Resolution No. 2018-397, entitled “A RESOLUTION AUTHORIZING AN AGREEMENT FOR PROFESSIONAL SERVICES WITH ENVIRONMENTAL STRATEGIES & APPLICATIONS, INC., MIDDLESEX, NJ, FOR PUBLIC WORKS GROUNDWATER CONTAMINATION REMEDIAL SUPPORT, IN AN AMOUNT NOT TO EXCEED \$305,619.00”; be and the same is hereby amended and supplemented to increase maximum amount of the contract by \$13,655.00.

2. THAT the Purchasing Agent be and the same is hereby authorized to issue an amendatory supplemental change order #3 to Contract No. C18-0086, issued to Environmental Strategies & Applications, Inc., Middlesex, NJ, in the amount of \$13,655.00.

Adopted:

President of Council

ATTEST:

City Clerk



April 2, 2019

REPORT

TO: THE MAYOR AND COUNCIL

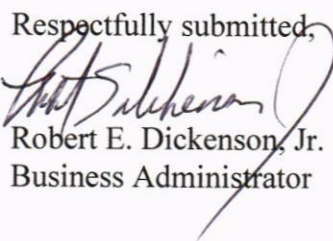
Amendatory Supplemental Change Order No. 3
Contract No. C18-0086
Public Works Groundwater Contamination Remedial Support
Environmental Strategies & Applications, Inc., Middlesex, NJ

We are requesting that an amendatory supplemental change order be issued to Contract No. C18-0086, issued to Environmental Strategies & Applications, Inc., Middlesex, NJ for Public Works Groundwater Contamination Remedial Support. This contract was authorized by Resolution No. 2018-397, adopted by City Council on October 9, 2018.

Prior to demolition of the out-of-service Public Works maintenance garage, a pre-demolition asbestos containing materials building inspection and lead-based paint survey was conducted, as described in the attached report.

The change order requested, in the amount of \$13,655.00, will provide for asbestos abatement and disposal at said garage. This change order, plus change order #1 (\$10,800) and change order #2 (\$61,405.00), will increase the original contract amount from \$305,619.00 to \$391,479.00.

The amendatory supplemental change order for which authorization is herein requested may be authorized in accordance with N.J.A.C. 5:30-11.1 et seq.

Respectfully submitted,

Robert E. Dickenson, Jr.
Business Administrator

RD/rl
Encl.

REQUEST FOR CHANGE ORDER

FOR:

Public Works Groundwater Contamination Remedial Support



PROJECT NAME

TO: BUSINESS ADMINISTRATION

DEPARTMENT: Engineering

FROM: Mike Russo

This is a request for change order # 3 to Contract # C18-0086 for:

Project Name Public Works Groundwater Contamination Remedial Support

Name/Address of

Contractor: Environmental Strategies & Applications, Inc. 495 Union Avenue, Suite 1D, Middlesex, NJ 08846

The change order is necessary because: (use additional pages if necessary to explain your reason and you must attach *documentation to support the necessity of this change order.

*(Documentation from contractor, engineer, etc.)


Change order for Asbestos Abatement and disposal at existing garage. This is required by NJDEP

prior to demolishing and disposing of the garage. See attached proposal & Asbestos Report.

Original Contract Amount:	\$ <u>305,619.00</u>
Amount of this change order:	\$ <u>13,655.00</u>
Previous Change Orders:	\$ <u>72,205.00</u>
Total Revised Amount:	\$ <u>391,479.00</u>

APPROVED BY: David Maillet

Print/type


Signature

NOTE:

CHANGE ORDERS CANNOT EXCEED 20% OF THE ORIGINAL CONTRACT AMOUNT

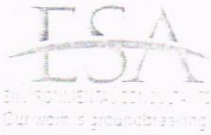
Please provide the account number that the change order will be charged to:

Account # 021-0-00-00-0000-2-5518601

CC: Purchasing Division



3-25-19



ENVIRONMENTAL STRATEGIES & APPLICATIONS, INC.
495 Union Avenue, Suite 1D, Middlesex, NJ 08846

phone: 732.469.8888
fax: 732.369.1120
email: info@askESA.com
web: askESA.com

CHANGE ORDER FORM

CHANGE ORDER #: ^2395
PROJECT #: X4081
DATE: 03/22/2019

CLIENT:

Mr. Michael Russo
640 E. Wood Street
PO Box 1508
Vineland, NJ 08362-1508

PROJECT:

Remediation Services PO# 18-006560
Vineland Department of Public Works
1086 East Walnut Road
City of Vineland
Cumberland County, NJ 08362-1508

DESCRIPTION OF CHANGE(S):

ESA conducted a pre-demolition asbestos-containing material (ACM) building inspection of the out-of-service maintenance garage building located at the Site. ESA summarized its findings in a March 11, 2019 report. ESA's assessment and review of the analytical data identified ACM (greater than 1% asbestos) in pipe wrap insulation and exterior window caulking. ACM abatement must be performed to facilitate building demolition and meet municipal and State permitting requirements. Due to the presence of these ACMs, the abatement of those materials must be conducted pursuant to the New Jersey Uniform Construction Code Asbestos Hazard Abatement Subcode (N.J.A.C 5:23-8) and Occupational Safety and Health Administration (OSHA) 29 CFR 1926.1101 as it pertains to asbestos. Therefore, ESA has prepared the following Change Order (CO) Scope of Work (SOW) for abatement of the identified ACM.

Task 1: Project Management and Coordination

ESA will provide technical project management services necessary to effectively manage and execute this project that include, but are not limited to, site access coordination, scheduling, contractor coordination, project updates, recommendations and communications with CLIENT. Task 1 includes submittal of the required 10-day Notification of ACM abatement to the State of New Jersey.

Task 2: ACM Abatement Activities

ESA will manage and oversee the abatement of the identified ACMs conducted by a New Jersey licensed asbestos abatement contractor. During the work the garage building will be treated as a contaminated work area for the protection of the abatement workers pursuant to OSHA CFR 1926.1101. The workers will wear, half-face negative pressure respirator, Tyvek suits in addition to level C personal protective equipment (PPE). The waste generated during the clean-up activities will be double bagged and disposed of as general construction debris. All the interior surface will be wet-wiped and/or vacuumed with a HEPA filtered vacuum. ESA estimates abatement of approximately 537 linear feet of window caulking, approximately 131 linear feet of 4-inch pipe wrap and approximately 69 linear feet of 2-inch pipe wrap.

During ESA's abatement activities, perimeter air monitoring will be conducted by a 3rd party New Jersey Department of Community Affairs certified Asbestos Safety Control Monitoring (ASCM) Firm (i.e. an ASCM

ESA Change Order X4081 CO^2395
Vineland Department of Public Works

1086 East Walnut Road
City of Vineland

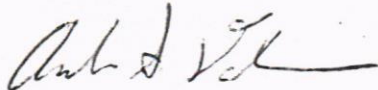
certified Firm approved to work for the City of Vineland) retained by the City of Vineland. The abatement will be conducted in accordance with the ACM Abatement Workplan prepared by the same 3rd party.

Once the abatement activities are complete, a visual inspection of the work areas and clearance air sampling will be conducted by the 3rd party ASCM Firm retained by the City of Vineland to demonstrate the ACM has been properly abated and the concentration of asbestos fibers remaining in the ambient air are below the acceptance criteria.

Task 3: Letter Report

ESA will prepare a summary letter report detailing the clean-up procedures, the steps taken to protect worker exposure and a summary of the abatement activities performed. The report will also include waste disposal documentation.

WE AGREE to the change(s) specified above to be completed at the additional price of: **\$13,655.00**



ESA Authorized Signature

Date

03/22/2019

ACCEPTANCE: The above prices and specifications of this CHANGE ORDER are satisfactory and are hereby accepted. All work will be performed under the same terms and conditions as specified in the original Professional Services Agreement contract executed between ESA and City of Vineland, unless otherwise stipulated.

CLIENT Authorized Signature

Date

ENVIRONMENTAL STRATEGIES & APPLICATIONS, INC.
RATE SCHEDULE
 EFFECTIVE JANUARY 1, 2019 – DECEMBER 31, 2019

PERSONNEL: All rates are per hour.

Principal / Principal Consultant	\$220
Program Director/Executive/LSRP	\$195
Senior Project Manager	\$165
Certified Industrial Hygienist	\$175
Project Manager	\$145
Certified Indoor Environmental Consultant	\$120
Associate Project Manager	\$105
Industrial Hygienist	\$100
EPA/AHERA Asbestos Building Inspector	\$100
Geologist/Hydrogeologist/Env. Scientist II	\$85
CAD/GIS/Designer	\$85
Mold Inspector	\$80
Environmental Scientist I	\$75
Environmental Technician	\$60
Administrative Support	\$55

EQUIPMENT: All rates are per day, except where noted.

Disposables	\$35
Magnetometer	\$25
Hand Auger w/one extension	\$20
Vehicle (Incl. gas, mileage & tolls)	\$175
Water Level Indicator	\$35
Product Level Indicator	\$50
5-gallon Carbon Filter Unit	\$15

CONSUMABLES: All rates are per unit.

Tyvek Suits, each	\$25
55-gallon Drum	\$75
Tubing – HDPE ½" OD x 3/8" ID (per foot)	\$0.48
Bailer – SCW 0.75" x 36" Poly	\$7.50
Bailer – SCDW 1.5" x 12" Poly	\$7.50
Bailer – SCDW 1.5" x 36" Poly	\$10
5-gram EnCore Kit (Set of 3)	\$42
25-gram EnCore Kit for SPLP	\$15

ESA's rates include an assessed 6.0% insurance surcharge and a 2% office services surcharge.
 Personnel are billed portal to portal.
 Rates for expert preparation, depositions, and testimony are 2 times those listed.
 Rates subject to change upon 30 days' notification.



March 11, 2019

Mr. Michael Russo, Assistant Engineer, Civil
City of Vineland
640 East Wood Street
PO Box 1508
Vineland, NJ 08362-1508

**Re: Pre-Demolition Asbestos Building Inspection & Lead-Based Paint Survey
Vineland Department of Public Works
1086 East Walnut Road
Vineland, Cumberland County, New Jersey 08360
ESA Project No. X4081**

Dear Mr. Myers:

This letter report summarizes the pre-demolition asbestos containing materials (ACM) building inspection and lead-based paint (LBP) survey conducted on February 5, 2019 by Environmental Strategies and Applications, Inc. (ESA) and February 12, 2019 by Garden State Environmental, Inc. (GSE), respectively, at the above referenced property (Site).

1. Executive Summary

The scope of work was completed pursuant to ESA's Change Order No. 2381 dated December 21, 2018 and as authorized by Anthony R. Fanucci, Mayor, Keith Petrosky, City Clerk, and Miguel A. Mercado, QPA, Purchasing Agent of the City of Vineland ("CLIENT"). As part of the on-going soil and ground water remediation, CLIENT intends to demolish the existing maintenance garage at the Site. Prior to demolition, the State of New Jersey's Department of Community Affairs (DCA), which administers/enforces asbestos regulations in the state through the Uniform Construction Code, issued a directive to all local building code officials within the state not to issue a demolition permit without the completion/documentation of an asbestos and lead-based paint pre-demolition survey. This directive is applicable to both residential and commercial structures. Mr. Zachary Levin, Environmental Protection Agency (EPA) / Asbestos Hazard Emergency Response Act (AHERA) accredited Asbestos Building Inspector #RWJ 3482AA, conducted the asbestos building inspection and sampling. Mr. Darren Slack, NJ Lead Paint Inspector/Risk Assessor Certification #018847, conducted the LBP survey.

ENVIRONMENTAL STRATEGIES & APPLICATIONS, INC.
495 Union Avenue, Suite 1D, Middlesex, NJ 08846

phone: 732.469.8888
email: info@askESA.com
web: askESA.com

2. Asbestos Inspection Observations

ESA identified the following twelve (12) homogeneous areas that potentially contain asbestos:

2.1 Homogeneous Sampling Area (HSA) #1 – Main Roof Asphalt Shingles

ESA observed green asphalt shingles located on the main roof of the maintenance garage. Similar green asphalt shingles were also present on the lower eastern roof over a door located at the southeastern portion of the maintenance garage. Based on the square footage of the roofing material (more than 5,000 square feet), ESA collected seven (7) samples designated HSA-1-1 through HSA-1-7.

2.2 HSA #2 – Western Roof Asphalt Shingles

ESA observed black asphalt shingles located on the western roof of the maintenance garage. It should be noted that this roof is located above the office and lavatory area of the maintenance garage and is composed of different shingles than the main roof. Based on the square footage of the roofing material (less than 1,000 square feet), ESA collected three (3) samples designated HSA-2-1 through HSA-2-3.

2.3 HSA #3 – Exterior Window Caulking

ESA observed window caulk around exterior windows throughout the maintenance garage. Based on the square footage of the window caulk (less than 1,000 square feet), ESA collected three (3) samples designated HSA-3-1 through HSA-3-3.

2.4 HSA #4 – Chimney Flashing and Mastic

ESA observed metal flashing with mastic around the chimney of the western roof of the maintenance garage. Based on the square footage of the chimney flashing (less than 1,000 square feet), ESA collected three (3) samples designated HSA-4-1 through HSA-4-3.

2.5 HSA #5 – Southern Roof Peak Caulking

ESA observed black caulking along the southern peak of the main roof of the maintenance garage. Based on the square footage of the roof caulk (less than 1,000 square feet), ESA collected three (3) samples designated HSA-5-1 through HSA-5-3.

2.6 HSA #6 – Flashing Above Storage Containers

ESA observed black flashing with mastic above the storage containers adjacent to the northern wall of the maintenance garage. Based on the square footage of the black flashing (less than 1,000 square feet), ESA collected three (3) samples designated HSA-6-1 through HSA-6-3.

2.7 HSA #7 – Cove Base in Office

ESA observed black cove base with mastic along the lower sheetrock walls in the office of the maintenance garage. The office is located in the western central portion of the maintenance garage. Based on the

square footage of the cove base (less than 1,000 square feet), ESA collected three (3) samples designated HSA-7-1 through HSA-7-3.

2.8 HSA #8 – Ceiling in Office

ESA observed white fiber board ceiling tiles in the office of the maintenance garage. Based on the square footage of the fiber board ceiling (less than 1,000 square feet), ESA collected three (3) samples designated HSA-8-1 through HSA-8-3.

2.9 HSA #9 – Joint Compound in Office

ESA observed white joint compound between pieces of sheetrock walls in the office of the maintenance garage. Based on the square footage of the joint compound (less than 1,000 square feet), ESA collected three (3) samples designated HSA-9-1 through HSA-9-3.

2.10 HSA #10 – Maintenance Garage Ceiling

ESA observed brown fiber board ceiling throughout the main portion of the maintenance garage. Based on the square footage of the fiber board ceiling (more than 5,000 square feet), ESA collected seven (7) samples designated HSA-10-1 through HSA-10-7.

2.11 HSA #11 – Storage Room Floor Tile

ESA observed gray floor tile in a storage room of the maintenance garage. The storage room is located at the southeastern portion of the maintenance garage. Based on the square footage of the floor tile (less than 1,000 square feet), ESA collected three (3) samples designated HSA-11-1 through HSA-11-3.

2.12 HSA #12 Pipe Wrap Insulation

ESA observed air-cell pipe wrap insulation throughout the main portion of the maintenance garage and in the lavatory. The lavatory is located in the southwestern portion of the maintenance garage. The pipe wrap insulation is presumed ACM (PACM) and due to its poor condition, sampling was not conducted because of the potential for the release of airborne asbestos fibers.

3. Asbestos Laboratory Analytical Results

ESA transported a total of 41 bulk samples to EMSL Analytical Services, Inc., an accredited laboratory, located in Piscataway, New Jersey for analysis. The samples were initially analyzed for Polarized Light Microscopy (PLM) and then further analyzed for transmission electron microscopy (TEM) methods with a one-week laboratory turnaround time. A copy of the sample chain-of-custody form and complete laboratory report are included as **Appendix A**. The sample results are summarized below.

Table 1: February 6, 2019 Asbestos Sampling Event		
Sample ID	Location/Description	Percentage/Asbestos Type
HSA-1-1 through HSA-1-7	Main roof asphalt shingles – black/green	Non-detect
HSA-2-1 through HSA-2-3	Western roof asphalt shingles – black	Non-detect
HSA-3-1 through HSA-3-3	Exterior window caulking	4%-5% Chrysotile
HSA-4-1 through HSA-4-3	Chimney flashing and mastic	Non-detect
HSA-5-1 through HSA-5-3	Southern roof peak caulking – black	Non-detect
HSA-6-1 through HSA-6-3	Flashing above storage containers – black	Non-detect
HSA-7-1 through HSA-7-3	Cove base in office – black	Non-detect
HSA-8-1 through HSA-8-3	Ceiling in office – white fiber board	Non-detect
HSA-9-1 through HSA-9-3	Joint compound in office – white	Non-detect
HSA-10-1 through HSA-10-7	Maintenance garage ceiling – brown fiber board	Non-detect
HSA-11-1 through HSA-11-3	Storage room floor tile – gray	Non-detect
HSA-12	Pipe Wrap Insulation	PACM*

*Presumed Asbestos Containing Material based on professional experience and industry accepted presumptions.

4. Asbestos Inspection Conclusions and Recommendations

ESA's assessment and review of the asbestos analytical data identified two (2) HSAs to contain asbestos above the regulatory action level of 1%.

- HSA #3 – Exterior window caulking
- HSA #12 – Pipe wrap insulation

Prior to the demolition of structures, installations, and buildings (excluding residential buildings that have four or fewer dwelling units) containing ACMs, EPA requires removal of ACMs, and Occupational Safety and Health Administration (OSHA) recommends utilizing proper worker safety practices as it pertains to asbestos (i.e. containment, wet methods, personal protective equipment, etc.) to control asbestos emissions and minimize the release of asbestos fibers during building demolition, waste packaging, transportation, and disposal. Therefore, ESA recommends the exterior window caulking and pipe wrap insulation in the maintenance garage be removed by a New Jersey licensed asbestos abatement contractor with third party asbestos air monitoring oversight prior to the demolition of the maintenance garage. For the purposes of the asbestos abatement, ESA estimates approximately 200 linear feet of pipe wrap insulation consisting of 131 linear feet of 4-inch pipe wrap and 69 linear feet of 2-inch pipe wrap. ESA estimates approximately 537 linear feet of window caulking varying from 0.5-inches to 1.0 inch thick. It should be noted that the pipe wrap insulation is generally in good condition; however, there are certain areas that are considered damaged. In addition, the window caulking is significantly damaged, and deteriorating in some areas.

5. Lead-Based Paint Conclusions and Recommendations

ESA performed the LBP survey with a Niton XLp 300A XRF Lead-Based Paint Analyzer. ESA analyzed forty-two (42) interior and exterior painted surfaces during the survey. It should not be used to assess whether an individual has been exposed to harmful levels of lead and/or the future for potential for future exposure. However, this information can provide the basis for a more detailed risk assessment, which includes an in depth, hazard evaluation as well as soil, and dust wipe sampling. ESA identified three (3) building LBP surfaces that had readings above the regulatory action level of 1.0 mg/cm².

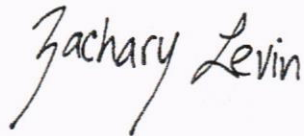
- Maintenance garage metal columns
- Maintenance garage metal window molding
- Lavatory metal window molding

Per the Lead Renovation, Repair, and Painting Rule, the EPA recommends that contractors who demolish a structure use lead-safe practices (i.e. wet methods, personal protective equipment, etc.) to control lead emissions and minimize the release of lead particles during building demolition, waste packaging, transportation, and disposal during demolition activities (40 C.F.R. Part 745, Subpart E). Therefore, ESA recommends using lead-safe work practices during the demolition of the maintenance garage metal columns and metal window molding, and the lavatory metal window molding, A copy of the complete Lead Paint Inspection Report is included as **Appendix B**.

If you have any questions regarding this report, please call me to discuss at 732-469-8888. Thank you for the opportunity to assist you in this regard.

Sincerely,

For Environmental Strategies & Applications, Inc.




Zachary Levin
EPA/AHERA Asbestos Building Inspector Reg#: RWJ 3482AA

Appendix A
Asbestos Laboratory Report

ENVIRONMENTAL STRATEGIES & APPLICATIONS, INC.
495 Union Avenue, Suite 1D, Middlesex, NJ 08846

phone: 732.469.8888
email: info@askESA.com
web: askESA.com





EMSL Analytical, Inc.

1056 Stelton Road Piscataway, NJ 08854
Phone/Fax: (732) 981-0550 / (732) 981-0551
<http://www.EMSL.com> / piscatawaylab@emsl.com

EMSL Order ID: 051900670
Customer ID: ENVI60
Customer PO: X4081
Project ID:

Attn: Zachary Levin
Environmental Strategies & Applications
495 Union Avenue
Suite 1D
Middlesex, NJ 08846

Phone: (732) 469-8888
Fax: (732) 469-1120
Collected: 2/14/2019
Received: 2/14/2019
Analyzed: 2/20/2019

Proj: Vineland X4081

Summary Test Report for Asbestos Analysis in Accordance with N.J.A.C. 8:60 and 12:120 via EPA 600/R-93/116

Client Sample ID: 1-1-Shingle 1

Lab Sample ID: 051900670-0001

Sample Description: Western Roof Over Entrance/Green Asphalt Shingle

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/15/2019	Black/Green	8.0%	92.0%	None Detected	
TEM Grav. Reduction	2/20/2019	Black/Green	0.0%	100.0%	None Detected	

Client Sample ID: 1-1-Shingle 2

Lab Sample ID: 051900670-0001A

Sample Description: Western Roof Over Entrance/Green Asphalt Shingle

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/15/2019	White/Black	12.0%	88.0%	None Detected	
TEM Grav. Reduction	2/20/2019	White/Black	0.0%	100.0%	None Detected	

Client Sample ID: 1-2-Shingle 1

Lab Sample ID: 051900670-0002

Sample Description: Western Roof Over Entrance/Green Asphalt Shingle

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/15/2019	Black/Green	12.0%	88.0%	None Detected	
TEM Grav. Reduction	2/20/2019	Black/Green	0.0%	100.0%	None Detected	

Client Sample ID: 1-2-Shingle 2

Lab Sample ID: 051900670-0002A

Sample Description: Western Roof Over Entrance/Green Asphalt Shingle

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/15/2019	White/Black	8.0%	92.0%	None Detected	
TEM Grav. Reduction	2/20/2019	White/Black	0.0%	100.0%	None Detected	

Client Sample ID: 1-3-Shingle 1

Lab Sample ID: 051900670-0003

Sample Description: Eastern Side of Western Roof/Green Asphalt Shingle

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/18/2019	Black/Green	8.0%	92.0%	None Detected	
TEM Grav. Reduction	2/20/2019	Black/Green	0.0%	100.0%	None Detected	

Client Sample ID: 1-3-Shingle 2

Lab Sample ID: 051900670-0003A

Sample Description: Eastern Side of Western Roof/Green Asphalt Shingle

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/18/2019	White/Black	5.0%	95.0%	None Detected	
TEM Grav. Reduction	2/20/2019	White/Black	0.0%	100.0%	None Detected	



EMSL Analytical, Inc.

1056 Stelton Road Piscataway, NJ 08854
Phone/Fax: (732) 981-0550 / (732) 981-0551
<http://www.EMSL.com> / piscatawaylab@emsl.com

EMSL Order ID: 051900670
Customer ID: ENVI60
Customer PO: X4081
Project ID:

Summary Test Report for Asbestos Analysis in Accordance with N.J.A.C. 8:60 and 12:120 via EPA 600/R-93/116

Client Sample ID: 1-4-Shingle 1 **Lab Sample ID:** 051900670-0004
Sample Description: Eastern Side of Western Roof/Green Asphalt Shingle

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/15/2019	Black/Green	14.0%	86.0%	None Detected	
TEM Grav. Reduction	2/20/2019	Black/Green	0.0%	100.0%	None Detected	

Client Sample ID: 1-4-Shingle 2 **Lab Sample ID:** 051900670-0004A
Sample Description: Eastern Side of Western Roof/Green Asphalt Shingle

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/15/2019	White/Black	8.0%	92.0%	None Detected	
TEM Grav. Reduction	2/20/2019	White/Black	0.0%	100.0%	None Detected	

Client Sample ID: 1-5-Shingle 1 **Lab Sample ID:** 051900670-0005
Sample Description: West Side of Roof (Western)/Green Asphalt Shingle

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/15/2019	Black/Green	16.0%	84.0%	None Detected	
TEM Grav. Reduction	2/20/2019	Black/Green	0.0%	100.0%	None Detected	

Client Sample ID: 1-5-Shingle 2 **Lab Sample ID:** 051900670-0005A
Sample Description: West Side of Roof (Western)/Green Asphalt Shingle

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/15/2019	White/Black	8.0%	92.0%	None Detected	
TEM Grav. Reduction	2/20/2019	White/Black	0.0%	100.0%	None Detected	

Client Sample ID: 1-6-Shingle 1 **Lab Sample ID:** 051900670-0006
Sample Description: West Central Peak of Roof/Green Asphalt Shingle

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/18/2019	Black/Green	9.0%	91.0%	None Detected	
TEM Grav. Reduction	2/20/2019	Black/Green	0.0%	100.0%	None Detected	

Client Sample ID: 1-6-Shingle 2 **Lab Sample ID:** 051900670-0006A
Sample Description: West Central Peak of Roof/Green Asphalt Shingle

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/18/2019	White/Black	6.0%	94.0%	None Detected	
TEM Grav. Reduction	2/20/2019	White/Black	0.0%	100.0%	None Detected	

Client Sample ID: 1-7-Shingle 1 **Lab Sample ID:** 051900670-0007
Sample Description: Western North Side of Roof/Green Asphalt Shingle

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/15/2019	Black/Green	12.0%	88.0%	None Detected	
TEM Grav. Reduction	2/20/2019	Black/Green	0.0%	100.0%	None Detected	



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EMSL Order ID: 051900670
Customer ID: ENVI60
Customer PO: X4081
Project ID:

Summary Test Report for Asbestos Analysis in Accordance with N.J.A.C. 8:60 and 12:120 via EPA 600/R-93/116

Client Sample ID: 1-7-Shingle 2 **Lab Sample ID:** 051900670-0007A
Sample Description: Western North Side of Roof/Green Asphalt Shingle

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/15/2019	White/Black	12.0%	88.0%	None Detected	
TEM Grav. Reduction	2/20/2019	White/Black	0.0%	100.0%	None Detected	

Client Sample ID: 2-1 **Lab Sample ID:** 051900670-0008
Sample Description: East Center of Western Roof/Asphalt Shingle Black with Brown Specks

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/15/2019	Brown/Black	12.0%	88.0%	None Detected	
TEM Grav. Reduction	2/20/2019	Brown/Black	0.0%	100.0%	None Detected	

Client Sample ID: 2-2 **Lab Sample ID:** 051900670-0009
Sample Description: Center of West Roof/Asphalt Shingle Black with Brown Specks

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/15/2019	Brown/Black	8.0%	92.0%	None Detected	
TEM Grav. Reduction	2/20/2019	Brown/Black	0.0%	100.0%	None Detected	

Client Sample ID: 2-3 **Lab Sample ID:** 051900670-0010
Sample Description: North East Corner of West Roof/Asphalt Shingle Black with Brown Specks

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/18/2019	Brown/Black	6.0%	94.0%	None Detected	
TEM Grav. Reduction	2/20/2019	Brown/Black	0.0%	100.0%	None Detected	

Client Sample ID: 3-1 **Lab Sample ID:** 051900670-0011
Sample Description: West Central Window/Window Caulk

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/15/2019	Gray	0.0%	96.0%	4% Chrysotile	

Client Sample ID: 3-2 **Lab Sample ID:** 051900670-0012
Sample Description: South Side Window/Window Caulk

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/15/2019	Gray	2.0%	94.0%	4% Chrysotile	

Client Sample ID: 3-3 **Lab Sample ID:** 051900670-0013
Sample Description: East Central Window/Window Caulk

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/18/2019	Gray	0.0%	95.0%	5% Chrysotile	



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EMSL Order ID: 051900670
Customer ID: ENVI60
Customer PO: X4081
Project ID:

Summary Test Report for Asbestos Analysis in Accordance with N.J.A.C. 8:60 and 12:120 via EPA 600/R-93/116

Client Sample ID: 4-1 **Lab Sample ID:** 051900670-0014
Sample Description: South West Corner/Chimney Flashing & Mastic

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/15/2019	Clear	<1%	100.0%	None Detected	Mastic Only; Flashing is Metal
TEM Grav. Reduction	2/20/2019	Clear	0.0%	100.0%	None Detected	

Client Sample ID: 4-2 **Lab Sample ID:** 051900670-0015
Sample Description: East Side/Chimney Flashing & Mastic

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/15/2019	Clear	2.0%	98.0%	None Detected	Mastic Only; Flashing is Metal
TEM Grav. Reduction	2/20/2019	Clear	0.0%	100.0%	None Detected	

Client Sample ID: 4-3 **Lab Sample ID:** 051900670-0016
Sample Description: North Side/Chimney Flashing & Mastic

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/18/2019	Clear	0.0%	100.0%	None Detected	Mastic Only; Flashing is Metal
TEM Grav. Reduction	2/20/2019	Clear	0.0%	100.0%	None Detected	

Client Sample ID: 5-1 **Lab Sample ID:** 051900670-0017
Sample Description: West Corner/Black Caulking Along Roof Peak

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/15/2019	Black	24.0%	76.0%	None Detected	
TEM Grav. Reduction	2/20/2019	Black	0.0%	100.0%	None Detected	

Client Sample ID: 5-2 **Lab Sample ID:** 051900670-0018
Sample Description: Central Portion of Roof/Black Caulking Along Roof Peak

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/15/2019	Black	20.0%	80.0%	None Detected	
TEM Grav. Reduction	2/20/2019	Black	0.0%	100.0%	None Detected	

Client Sample ID: 5-3 **Lab Sample ID:** 051900670-0019
Sample Description: West Corner of Roof/Black Caulking Along Roof Peak

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/18/2019	Black	6.0%	94.0%	None Detected	
TEM Grav. Reduction	2/20/2019	Black	0.0%	100.0%	None Detected	

Client Sample ID: 6-1 **Lab Sample ID:** 051900670-0020
Sample Description: Central Portion/Black Flashing Above Storage Containers

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/15/2019	Black	16.0%	84.0%	None Detected	
TEM Grav. Reduction	2/20/2019	Black	0.0%	100.0%	None Detected	



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EMSL Order ID: 051900670
 Customer ID: ENVI60
 Customer PO: X4081
 Project ID:

Summary Test Report for Asbestos Analysis in Accordance with N.J.A.C. 8:60 and 12:120 via EPA 600/R-93/116

Client Sample ID: 6-2 **Lab Sample ID:** 051900670-0021
Sample Description: East Side/Black Flashing Above Storage Containers

TEST	Analyzed Date	Cplor	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/15/2019	Black	8.0%	92.0%	None Detected	
TEM Grav. Reduction	2/20/2019	Black	0.0%	100.0%	None Detected	

Client Sample ID: 6-3 **Lab Sample ID:** 051900670-0022
Sample Description: West Side/Black Flashing Above Storage Containers

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/18/2019	Black	10.0%	90.0%	None Detected	
TEM Grav. Reduction	2/20/2019	Black	0.0%	100.0%	None Detected	

Client Sample ID: 7-1 **Lab Sample ID:** 051900670-0023
Sample Description: Central Front Facing Wall/Black Covebase- Mastic Lower Sheet Rock Walls on Office

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/15/2019	Tan	0.0%	100.0%	None Detected	
TEM Grav. Reduction	2/20/2019	Tan	0.0%	100.0%	None Detected	

Client Sample ID: 7-2 **Lab Sample ID:** 051900670-0024
Sample Description: Left-Hand Side Wall/Black Covebase- Mastic Lower Sheet Rock Walls on Office

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/15/2019	Tan	2.0%	98.0%	None Detected	
TEM Grav. Reduction	2/20/2019	Tan	0.0%	100.0%	None Detected	

Client Sample ID: 7-3 **Lab Sample ID:** 051900670-0025
Sample Description: Right-Hand Side Wall/Black Covebase- Mastic Lower Sheet Rock Walls on Office

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/18/2019	Tan	0.0%	100.0%	None Detected	
TEM Grav. Reduction	2/20/2019	Tan	0.0%	100.0%	None Detected	

Client Sample ID: 8-1 **Lab Sample ID:** 051900670-0026
Sample Description: Central Portion/(White) Board Ceiling (Office)

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/15/2019	Gray	72.0%	28.0%	None Detected	

Client Sample ID: 8-2 **Lab Sample ID:** 051900670-0027
Sample Description: Eastern Portion/(White) Board Ceiling (Office)

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/15/2019	Gray	68.0%	32.0%	None Detected	



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EMSL Order ID: 051900670
Customer ID: ENV160
Customer PO: X4081
Project ID:

Summary Test Report for Asbestos Analysis in Accordance with N.J.A.C. 8:60 and 12:120 via EPA 600/R-93/116

Client Sample ID: 8-3 **Lab Sample ID:** 051900670-0028
Sample Description: Western Portion/(White) Board Ceiling (Office)

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/18/2019	Gray	63.0%	37.0%	None Detected	

Client Sample ID: 9-1 **Lab Sample ID:** 051900670-0029
Sample Description: Central Portion/White Joint Cmpnd Btwn Drywall

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/15/2019	White	0.0%	100.0%	None Detected	

Client Sample ID: 9-2 **Lab Sample ID:** 051900670-0030
Sample Description: Eastern Portion/White Joint Cmpnd Btwn Drywall

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/15/2019	White	0.0%	100.0%	None Detected	

Client Sample ID: 9-3 **Lab Sample ID:** 051900670-0031
Sample Description: Western Portion/White Joint Cmpnd Btwn Drywall

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/18/2019	White	<1%	100.0%	None Detected	

Client Sample ID: 10-1 **Lab Sample ID:** 051900670-0032
Sample Description: Southern Portion/Brown Fiberboard Ceiling Tile

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/15/2019	Brown	88.0%	12.0%	None Detected	

Client Sample ID: 10-2 **Lab Sample ID:** 051900670-0033
Sample Description: South Eastern Portion/Brown Fiberboard Ceiling Tile

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/15/2019	Brown	88.0%	12.0%	None Detected	

Client Sample ID: 10-3 **Lab Sample ID:** 051900670-0034
Sample Description: South Eastern Portion/Brown Fiberboard Ceiling Tile

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/18/2019	Brown	80.0%	20.0%	None Detected	

Client Sample ID: 10-4 **Lab Sample ID:** 051900670-0035
Sample Description: South Eastern Portion/Brown Fiberboard Ceiling Tile

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/15/2019	Brown	88.0%	12.0%	None Detected	



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EMSL Order ID: 051900670
Customer ID: ENVI60
Customer PO: X4081
Project ID:

Summary Test Report for Asbestos Analysis in Accordance with N.J.A.C. 8:60 and 12:120 via EPA 600/R-93/116

Client Sample ID: 10-5 **Lab Sample ID:** 051900670-0036
Sample Description: North Central Wall/Brown Fiberboard Ceiling Tile

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/15/2019	Brown	88.0%	12.0%	None Detected	

Client Sample ID: 10-6 **Lab Sample ID:** 051900670-0037
Sample Description: North Central Wall/Brown Fiberboard Ceiling Tile

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/18/2019	Brown	89.0%	11.0%	None Detected	

Client Sample ID: 10-7 **Lab Sample ID:** 051900670-0038
Sample Description: North Central Wall/Brown Fiberboard Ceiling Tile

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/15/2019	Brown	88.0%	12.0%	None Detected	

Client Sample ID: 11-1-Floor Tile **Lab Sample ID:** 051900670-0039
Sample Description: Eastern Portion/Grey Floor Tile w/ Mastic

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/15/2019	Gray	0.0%	100.0%	None Detected	
TEM Grav. Reduction	2/20/2019	Gray	0.0%	100.0%	None Detected	

Client Sample ID: 11-1-Mastic **Lab Sample ID:** 051900670-0039A
Sample Description: Eastern Portion/Grey Floor Tile w/ Mastic

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/15/2019	Tan	4.0%	96.0%	None Detected	
TEM Grav. Reduction	2/20/2019	Tan	0.0%	100.0%	None Detected	

Client Sample ID: 11-2-Floor Tile **Lab Sample ID:** 051900670-0040
Sample Description: Western Portion/Grey Floor Tile w/ Mastic

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/15/2019	Gray	0.0%	100.0%	None Detected	
TEM Grav. Reduction	2/20/2019	Gray	0.0%	100.0%	None Detected	

Client Sample ID: 11-2-Mastic **Lab Sample ID:** 051900670-0040A
Sample Description: Western Portion/Grey Floor Tile w/ Mastic

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/15/2019	Tan	2.0%	98.0%	None Detected	
TEM Grav. Reduction	2/20/2019	Tan	0.0%	100.0%	None Detected	



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EMSL Order ID: 051900670
Customer ID: ENVI60
Customer PO: X4081
Project ID:

Summary Test Report for Asbestos Analysis in Accordance with N.J.A.C. 8:60 and 12:120 via EPA 600/R-93/116

Client Sample ID: 11-3-Floor Tile **Lab Sample ID:** 051900670-0041
Sample Description: Central Portion/Grey Floor Tile w/ Mastic

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/18/2019	Gray	0.0%	100.0%	None Detected	
TEM Grav. Reduction	2/20/2019	Gray	0.0%	100.0%	None Detected	

Client Sample ID: 11-3-Mastic **Lab Sample ID:** 051900670-0041A
Sample Description: Central Portion/Grey Floor Tile w/ Mastic

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	2/18/2019	Tan	12.0%	88.0%	None Detected	
TEM Grav. Reduction	2/20/2019	Tan	0.0%	100.0%	None Detected	

Analyst(s):

Colin Slattery	PLM (35) TEM Grav. Reduction (29)
Nicholas Maslowski	PLM (16) TEM Grav. Reduction (6)

Reviewed and approved by:

Chaoyut Sae Lao, Laboratory Manager
or Other Approved Signatory

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Samples analyzed by EMSL Analytical, Inc. Piscataway, NJ NYS ELAP 11423, NVLAP Lab Code 101048-2, NJ NELAC 12037, CT PH-0266

Initial report from: 02/21/2019 08:31:31



Asbestos Bulk Building Material Chain of Custody

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (800) 220-3675
FAX: (856) 786-5974

EMSL Order Number (Lab Use Only):

051900670

Company: ESA ENVIRONMENTAL CONSULTANTS		EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different <small>If Bill to is Different note instructions in Comments**</small> ENV160	
Street: 495 UNION AVENUE		<small>Third Party Billing requires written authorization from third party</small>	
City: MIDDLESEX	State/Province: NJ	Zip/Postal Code: 08846	Country: USA
Report To (Name): MARC BUNTING		Telephone #: 732 469 8888	
Email Address: MBUNTING@ASKESA.COM		Fax #: 732 469 1120	Purchase Order: X4081
Project Name/Number: VENLAND X4081		Please Provide Results: <input type="checkbox"/> Fax <input checked="" type="checkbox"/> Email	
U.S. State Samples Taken: NJ		CT Samples: <input type="checkbox"/> Commercial/Taxable <input type="checkbox"/> Residential/Tax Exempt	
Turnaround Time (TAT) Options* - Please Check			
<input type="checkbox"/> 3 Hour <input type="checkbox"/> 6 Hour <input type="checkbox"/> 24 Hour <input type="checkbox"/> 48 Hour <input type="checkbox"/> 72 Hour <input type="checkbox"/> 96 Hour <input checked="" type="checkbox"/> 1 Week <input type="checkbox"/> 2 Week			
<small>*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</small>			
PLM - Bulk (reporting limit)		TEM - Bulk	
<input checked="" type="checkbox"/> PLM EPA 600/R-93/116 (<1%)		<input checked="" type="checkbox"/> TEM EPA NOB - EPA 600/R-93/116 Section 2.5.5.1 (CONTINGENT ON PLM RESULT)	
<input type="checkbox"/> PLM EPA NOB (<1%)		<input type="checkbox"/> NY ELAP Method 198.4 (TEM)	
Point Count <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%)		<input type="checkbox"/> Chatfield Protocol (semi-quantitative)	
Point Count w/Gravimetric <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%)		<input type="checkbox"/> TEM % by Mass - EPA 600/R-93/116 Section 2.5.5.2	
<input type="checkbox"/> NIOSH 9002 (<1%)		<input type="checkbox"/> TEM Qualitative via Filtration Prep Technique	
<input type="checkbox"/> NY ELAP Method 198.1 (friable in NY)		<input type="checkbox"/> TEM Qualitative via Drop Mount Prep Technique	
<input type="checkbox"/> NY ELAP Method 198.6 NOB (non-friable-NY)		Other	
<input type="checkbox"/> OSHA ID-191 Modified		<input type="checkbox"/>	
<input type="checkbox"/> Standard Addition Method			
<input type="checkbox"/> Check For Positive Stop - Clearly Identify Homogenous Group		Date Sampled: 2/06/2019	
Samplers Name: Zachary Levin		Samplers Signature: <i>Zachary Levin</i>	
Sample #	HA #	Sample Location	Material Description
1	1	WESTERN ROOF OVER ENTRANCE	GREEN ASPHALT SHINGLE
2	1	WESTERN ROOF OVER ENTRANCE	GREEN ASPHALT SHINGLE
3	1	EASTERN SIDE OF WESTERN ROOF	GREEN ASPHALT SHINGLE
4	1	EASTERN SIDE OF WESTERN ROOF	GREEN ASPHALT SHINGLE
5	1	WEST SIDE OF ROOF (WESTERN)	GRGEN ASPHALT SHINGLE
6	1	WEST CENTRAL PEAK OF ROOF	GREEN ASPHALT SHINGLE
7	1	WESTERN NORTH SIDE OF ROOF	GREEN ASPHALT SHINGLE
1	2	EAST CENTER OF WESTERN ROOF	ASPHALT SHINGLE BLACK WITH BROWN SPECKS
2	2	CENTER OF WEST ROOF	ASPHALT SHINGLE BLACK WITH BROWN SPECKS
3	2	NORTH EAST CORNER OF WEST ROOF	ASPHALT SHINGLE BLACK WITH BROWN SPECKS
Client Sample # (s):		Total # of Samples:	
Relinquished (Client): <i>Smartline W&E</i>		Date: 2/14/19	Time: 0938
Received (Lab):		Date:	Time:
Comments/Special Instructions: Spoke to Ench: Combined all samples to be analyzed by PLM EPA 600/R-93/116. If NOB NEG, go to TEM CR 02/14/19			

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 FEB 14 2019 WALKIN
 BY *GRAND* 0938
 EMSL PISCATAWAY



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LABORATORY PRODUCTS TRAINING

Asbestos Bulk Building Material
Chain of Custody
EMSL Order Number (Lab Use Only):

051900670

EMSL ANALYTICAL, INC.
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FAX: (856) 786-5974

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	HA #	Sample Location	Material Description
1	3	WEST CENTRAL WINDOW	WINDOW CAULK
2	3	SOUTH SIDE WINDOW	WINDOW CAULK
3	3	EAST CENTRAL WINDOW	WINDOW CAULK
1	4	SOUTH WEST CORNER	CHIMNEY FLASHING + MASTIC
2	4	EAST SIDE	CHIMNEY FLASHING + MASTIC
3	4	NORTH SIDE	CHIMNEY FLASHING + MASTIC
1	5	WEST CORNER	BLACK CAULKING ALONG ROOF PEAK
2	5	CENTRAL PORTION OF ROOF	BLACK CAULKING ALONG ROOF PEAK
3	5	WEST CORNER OF ROOF	BLACK CAULKING ALONG ROOF PEAK
1	6	CENTRAL PORTION	BLACK FLASHING ABOVE STORAGE CONTAINERS
2	6	EAST SIDE	BLACK FLASHING ABOVE STORAGE CONTAINERS
3	6	WEST SIDE	BLACK FLASHING ABOVE STORAGE CONTAINERS
1	7	CENTRAL FRONT FACING WALL	BLACK COVE BASE - MASTIC LOWER SHEET ROCK WALLS ON OFFICE
2	7	LEFT - HAND SIDE WALL	
3	7	RIGHT - HAND SIDE WALL	
1	8	CENTRAL PORTION	(WHITE) BOARD CEILING (OFFICE)
2	8	EASTERN PORTION	(WHITE) BOARD CEILING (OFFICE)
3	8	WESTERN PORTION	(WHITE) BOARD CEILING (OFFICE)
1	9	CENTRAL PORTION	WHITE JOINT COMPOUND BTWN DRYWALL
2	9	EASTERN PORTION	WHITE JOINT COMPOUND BTWN DRYWALL
3	9	WESTERN PORTION	WHITE JOINT COMPOUND BTWN DRYWALL
1	10	SOUTHERN PORTION	BROWN FIBERBOARD CEILING TILE
2	10	SOUTH EASTERN PORTION	
3	10	SOUTH EASTERN PORTION	
*Comments/Special Instructions:			

Page 2 of 3 pages

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Asbestos Bulk Building Material Chain of Custody

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Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Table with 4 columns: Sample #, HA #, Sample Location, Material Description. Contains handwritten entries for samples 4-7 and 1-3.

*Comments/Special Instructions:

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Appendix B
Lead Paint Inspection Report

ENVIRONMENTAL STRATEGIES & APPLICATIONS, INC.
495 Union Avenue, Suite 1D, Middlesex, NJ 08846

phone: 732.469.8888
email: info@askESA.com
web: askESA.com



February 26, 2019

Mr. Andrew Daher
Environmental Strategies & Applications, Inc.
495 Union Avenue, Suite 1D
Middlesex, NJ 08846

RE: Lead Paint Inspection Report
1086 East Walnut Street
Vineland, NJ

Dear Mr. Daher:

On February 12, 2019, Garden State Environmental, Inc. (GSE) with our partner company, Mandell Environmental Consulting, conducted a limited inspection for the possible presence of Lead-Based Paint at 1086 East Walnut Street in Vineland, NJ. Sampling of selected areas was performed using a Niton XLP 300A XRF Lead-Based Paint Analyzer. The inspection was conducted by Darren Slack, NJ Lead Paint Inspector/Risk Assessor Certification # 018847. The inspection was not intended to be a full survey in accordance with HUD Guidelines.

The enclosed information will primarily assist you in identifying the location(s) of lead-based paint on the exterior and interior painted surfaces tested during the inspection. It should not be used to assess whether an individual has been exposed to harmful levels of lead and/or the future for potential for future exposure. However, this information can provide the basis for a more detailed risk assessment, which includes an in depth, hazard evaluation as well as soil, and dust wipe sampling.

The XRF results section of this report provides a listing of all the reading collected during the inspection, organized by room and structure type. The positive readings are highlighted in red and include those readings that were at or above the action level 1.0 mg/cm^2 . However, some painted surfaces may contain levels of lead below 1.0 mg/cm^2 (e.g. inconclusive), which could create dust or lead-contaminated soil hazards if the paint is turned into dust by abrasion, scraping, or sanding.

When reviewing the reports please consider that XRF readings were only collected on representative painted surfaces which were visible to the inspector at the time of the inspection, and accessible from ground level. Readings were not collected in areas where the presence or absence of paint could not be determined, or accessed. The overall condition of the painted surfaces at these locations is also provided.

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If you have any questions regarding this report, please contact our office at 201-652-1119.

Very truly yours,

A handwritten signature in black ink, appearing to read "Bruce Wolf". The signature is written in a cursive style with a large, sweeping initial "B" and a distinct "W".

Bruce D. Wolf, MPA, HO, IH, IEC
Sr. Vice President
NJDOH Licensed Indoor Environmental Consultant #1124

BDW/jb

LEAD PAINT INSPECTION REPORT

INSPECTION FOR: Garden State Environmental, Inc.
555 Broad Street, Suite K
Glen Rock, NJ 07452

PERFORMED AT: 1086 East Walnut Street
Vineland, NJ

INSPECTION DATE: 02/12/19

INSTRUMENT TYPE: Niton XLp 300A
XRF Lead-Based Paint Analyzer
Serial Number: 89266

ACTION LEVEL: 1.0 mg/cm²

OPERATOR LICENSE: #018847

THIS REPORT IS NON TRANSFERABLE

The measurements contained within are accurate to the best of our knowledge. Mandell Lead Inspectors Inc. does not under any circumstances make any representation guarantee or warranty as to the reported or future condition of the property.

SIGNED: Darren Slack Date: 2-15-19

Darren Slack
Mandell Lead Inspectors, Inc.
409 Minnisink Road, Suite 102
Totowa, NJ 07512
(973) 785-7574

XRF RESULTS

EXPLANATION OF TERMS AND ABBREVIATIONS

The following information has been provided to assist you with the attached Lead-Based Paint Inspection Report.

Action Level – The level at or above which any paint, shellac, varnish, or other coating is considered to be lead-based and, consequently, appropriate abatement and/or interim control measures should be considered. Currently, the action level as outlined in State and Federal guidelines is 1.0 milligrams/square centimeter (1.0 mg/cm²) as measured by X-Ray Fluorescence (XRF) testing, or 0.5% by weight as measured by laboratory analysis.

Reading No. – Corresponds to a specific XRF measurement as taken in a numerical sequence during the inspection.

Surface – The general location of a measurement relative to a wall on the exterior of the house or within a particular room. Wall A corresponds to the front entry wall, while walls B through D are identified proceeding in a clockwise direction.

Structure – A major component such as a window, wall, or staircase located inside or outside of the house, upon which a measurement or set of measurements were collected.

Location – The specific area on a structure where a measurement was collected.

Member – A portion of a structure such as a window jam, door header, or stair riser where a measurement was collected.

Friction Surface – Any interior or exterior surface such as a window, stair tread, or floor subject to friction or abrasion.

Impact Surface – An interior or exterior surface such as surfaces on doors subject to damage by repeated impact or contact.

Paint Condition – A subjective classification of the condition of a painted surface upon which a measurement was collected. Paint is classified into one of two categories that include "sound" or "unsound". A "sound" surface is considered to be completely intact and free from any visible signs of damage or deterioration. All other surfaces are considered "unsound". Regardless of the paint condition at the time of inspection, all friction and impact surfaces are considered "unsound" due to the ongoing generation of dust that is inherent to these surfaces during use. If test results indicate the presence of lead-based paint, particularly on an "unsound" surface, steps should be taken to establish and maintain a lead-safe condition.

I=Intact: Paint surface is smooth, continuous and free of surface defect that would result in the release of paint dust or chips.

F=Fair: Large surfaces – a surface where less than or equal to two square feet of surface are not intact. Areas without large surfaces – surface where less than or equal to 10 percent of the surface is not intact.

P=Poor: Large surfaces – a surface where more than two square feet of surface are not intact. Areas without large surfaces – surface where more than 10 percent of the surface is not intact.

XRF RESULTS

Index	Time	Room	Wall	Component	Substrate	Paint Condition	Results	PbC	Units
1	2019-02-12 10:49							2.51 ± 0.00	cps
2	2019-02-12 10:51	Calibration	*	*	*	*	Positive	1.00 ± 0.10	mg/cm ²
3	2019-02-12 10:52	Calibration	*	*	*	*	Positive	1.00 ± 0.10	mg/cm ²
4	2019-02-12 10:54	Calibration	*	*	*	*	Positive	1.10 ± 0.10	mg/cm ²
5	2019-02-12 10:56	Main Garage	A	Wall	Concrete	Deteriorated	Negative	0.01 ± 0.02	mg/cm ²
7	2019-02-12 10:56	Main Garage	B	Wall	Concrete	Deteriorated	Negative	0.01 ± 0.02	mg/cm ²
8	2019-02-12 10:57	Main Garage	B	Door Molding	Wood	Deteriorated	Negative	0.00 ± 0.02	mg/cm ²
9	2019-02-12 10:57	Main Garage	B	Column	Metal	Deteriorated	Positive	2.00 ± 0.20	mg/cm ²
10	2019-02-12 10:57	Main Garage	B	Column	Metal	Deteriorated	Positive	1.90 ± 0.20	mg/cm ²
11	2019-02-12 10:57	Main Garage	B	Column	Metal	Deteriorated	Positive	2.50 ± 1.50	mg/cm ²
12	2019-02-12 10:58	Main Garage	B	Door	Metal	Deteriorated	Negative	0.00 ± 0.02	mg/cm ²
13	2019-02-12 10:58	Main Garage	B	Door Molding	Metal	Deteriorated	Negative	0.00 ± 0.02	mg/cm ²
14	2019-02-12 10:58	Main Garage	B	Wall	Concrete	Deteriorated	Negative	0.02 ± 0.02	mg/cm ²
15	2019-02-12 10:59	Main Garage	B	Column	Metal	Deteriorated	Positive	1.60 ± 0.20	mg/cm ²
16	2019-02-12 10:59	Main Garage	B	Window Molding	Metal	Deteriorated	Negative	0.40 ± 0.10	mg/cm ²
17	2019-02-12 11:00	Main Garage	D	Door	Metal	Deteriorated	Negative	0.00 ± 0.02	mg/cm ²
18	2019-02-12 11:00	Main Garage	D	Door Molding	Metal	Deteriorated	Negative	0.00 ± 0.02	mg/cm ²
19	2019-02-12 11:00	Main Garage	D	Column	Metal	Deteriorated	Negative	0.17 ± 0.15	mg/cm ²
20	2019-02-12 11:01	Main Garage	D	Column	Metal	Deteriorated	Positive	2.10 ± 0.70	mg/cm ²
21	2019-02-12 11:01	Main Garage	D	Column	Metal	Deteriorated	Positive	1.30 ± 0.20	mg/cm ²
22	2019-02-12 11:01	Main Garage	D	Window Molding	Metal	Deteriorated	Positive	1.20 ± 0.20	mg/cm ²
23	2019-02-12 11:02	Main Garage	D	Window Molding	Metal	Deteriorated	Positive	1.20 ± 0.10	mg/cm ²
24	2019-02-12 11:02	Main Garage	D	Column	Metal	Deteriorated	Positive	1.70 ± 0.20	mg/cm ²
25	2019-02-12 11:03	Main Garage	D	Wall	Concrete	Deteriorated	Negative	0.01 ± 0.02	mg/cm ²
26	2019-02-12 11:03	Main Garage	D	Wall	Concrete	Deteriorated	Negative	0.01 ± 0.02	mg/cm ²
27	2019-02-12 11:04	Main Garage	D	Door	Metal	Deteriorated	Negative	0.00 ± 0.02	mg/cm ²
28	2019-02-12 11:04	Main Garage	D	Door Molding	Metal	Deteriorated	Negative	0.00 ± 0.02	mg/cm ²
29	2019-02-12 11:04	Main Garage	D	Door Molding	Concrete	Deteriorated	Negative	0.01 ± 0.02	mg/cm ²
30	2019-02-12 11:05	Bathroom	A	Window Molding	Metal	Deteriorated	Positive	2.40 ± 0.20	mg/cm ²
31	2019-02-12 11:05	Bathroom	B	Window Molding	Metal	Deteriorated	Positive	2.20 ± 0.20	mg/cm ²
33	2019-02-12 11:06	Bathroom	B	Wall	Concrete	Deteriorated	Negative	0.01 ± 0.02	mg/cm ²
34	2019-02-12 11:06	Bathroom	D	Wall	Concrete	Deteriorated	Negative	0.00 ± 0.02	mg/cm ²
35	2019-02-12 11:07	Bathroom	C	Wall	Concrete	Deteriorated	Negative	0.02 ± 0.04	mg/cm ²
36	2019-02-12 11:08	Bathroom	Center	Floor	Concrete	Deteriorated	Negative	0.02 ± 0.03	mg/cm ²
37	2019-02-12 11:09	Office	A	Wall	Plaster/Sheetrock	Deteriorated	Negative	0.00 ± 0.02	mg/cm ²

XRF RESULTS

Index	Time	Room	Wall	Component	Substrate	Paint Condition	Results	Pb/C	Units
38	2019-02-12 11:09	Office	B	Wall	Plaster/Sheetrock	Deteriorated	Negative	0.00 ± 0.02	mg/cm ²
39	2019-02-12 11:09	Office	B	Window Molding	Wood	Deteriorated	Negative	0.00 ± 0.02	mg/cm ²
41	2019-02-12 11:09	Office	C	Wall	Plaster/Sheetrock	Deteriorated	Negative	0.00 ± 0.02	mg/cm ²
42	2019-02-12 11:10	Office	D	Wall	Plaster/Sheetrock	Deteriorated	Negative	0.00 ± 0.02	mg/cm ²
43	2019-02-12 11:11	Exterior	D	Wall	Concrete	Deteriorated	Negative	0.07 ± 0.05	mg/cm ²
44	2019-02-12 11:11	Exterior	D	Door Molding	Metal	Deteriorated	Negative	0.00 ± 0.02	mg/cm ²
45	2019-02-12 11:11	Exterior	D	Door	Metal	Deteriorated	Negative	0.00 ± 0.02	mg/cm ²
46	2019-02-12 11:12	Exterior	D	Window Molding	Metal	Deteriorated	Negative	0.30 ± 0.19	mg/cm ²
47	2019-02-12 11:13	Exterior	A	Wall	Concrete	Deteriorated	Negative	0.07 ± 0.04	mg/cm ²
48	2019-02-12 11:13	Exterior	A	Window Molding	Metal	Deteriorated	Negative	0.70 ± 0.30	mg/cm ²
49	2019-02-12 11:14	Exterior	B	Wall	Concrete	Deteriorated	Negative	0.08 ± 0.06	mg/cm ²
50	2019-02-12 11:17	Calibration	*	*	*	*	Positive	1.00 ± 0.10	mg/cm ²
51	2019-02-12 11:18	Calibration	*	*	*	*	Positive	1.00 ± 0.10	mg/cm ²
52	2019-02-12 11:20	Calibration	*	*	*	*	Positive	1.00 ± 0.10	mg/cm ²