

# INITIAL AHERA ASBESTOS SURVEY



HIDDEN VALLEY HIGH SCHOOL

5000 TITAN TRAIL  
CAVE SPRING, VIRGINIA 24018

ECS PROJECT NO. 47:3555

FOR

ROANOKE COUNTY SCHOOLS

NOVEMBER 17, 2017





November 17, 2017

Mr. George Assaid  
Roanoke County Schools  
5937 Cove Road

Roanoke, Virginia 24019  
gassaid@rcs.k12.va.us

ECS Project No. 47:3555

Reference: Initial AHERA Asbestos Survey, Hidden Valley High School, 5000 Titan Trail, Cave Spring, Virginia

Dear Mr. Assaid:

ECS Mid-Atlantic, LLC (ECS) is pleased to provide Roanoke County Schools with the results of the above referenced Initial AHERA Asbestos Survey performed at Hidden Valley High School located at 5000 Titan Trail in Cave Spring, Virginia. This report summarizes our observations, analytical results, findings, and recommendations related to the work performed. The work described in this report was performed by ECS in general accordance with the Scope of Services described in ECS Proposal Number 47: and the terms and conditions of the agreement authorizing those services.

ECS appreciates this opportunity to provide Roanoke County Schools with our services. If we can be of further assistance to you, please do not hesitate to contact us.

Sincerely,

ECS Mid-Atlantic, LLC

A handwritten signature in black ink, appearing to read 'Robert Curran', written in a cursive style.

Robert Curran  
Environmental Scientist  
rcurran@ecslimited.com  
804-353-6333

A handwritten signature in black ink, appearing to read 'Chris Chapman', written in a cursive style.

Christopher J. Chapman, CIH  
Director of Industrial Hygiene  
cchapman@ecslimited.com  
804-353-6333

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## **EXECUTIVE SUMMARY**

The subject building consists of the Hidden Valley High School located at 5000 Titan Trail in Cave Spring, Virginia. The building consists of two floor levels and was reportedly constructed in 1999. The facility consists of various classrooms, offices, storage rooms, cafeteria, bathrooms, gymnasiums, locker rooms and various athletic rooms and a library.

Per the United States Environmental Protection Agency (US EPA) requirements, the purpose of the survey was to evaluate the building materials within the school areas for asbestos-containing materials (ACMs). The non-invasive survey was performed in general per US EPA Standard 40 CFR 763 Subpart E, Asbestos Hazard Emergency Response Act (AHERA) and OSHA Standard 29 CFR 1926.1101 Inspection Protocol.

The survey was performed for the readily accessible interior areas of the facility. Exterior and roofing materials were not included in this assessment as these areas are excluded under AHERA. During the survey, ECS attempted to locate suspect asbestos-containing building materials (ACBMs) in readily accessible areas. However, due to the destructive means required to access some materials, certain areas were deemed inaccessible (i.e. behind solid walls or sub-grade materials) and were not surveyed for suspect ACBMs. Unidentified suspect ACMs may be located in these and/or other inaccessible areas.

During our assessment, a total of 78 bulk samples were collected and a total of 121 layers were analyzed by the laboratory. Based on the laboratory analysis of the suspect bulk samples collected during the survey, none of the materials sampled were reported to contain asbestos. Please refer to Table 1 for a list of the suspect asbestos bulk samples collected during our survey. Our findings and recommendations for are discussed further in this report provided further in the report.

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## 1.0 SITE DESCRIPTION

The subject building consists of the Hidden Valley High School located at 5000 Titan Trail in Cave Spring, Virginia. The building consists of two floor levels and was reportedly constructed in 1999. The facility consists of various classrooms, offices, storage rooms, cafeteria, bathrooms, gymnasiums, locker rooms and various athletic rooms and a library.

## 2.0 PURPOSE

The Asbestos Hazard Emergency Response Act (AHERA) requires public school districts to inspect their schools for asbestos-containing building materials and prepare management plans for identified asbestos containing materials and to take action to prevent or reduce asbestos hazards. This is based on an "in-place" management of asbestos-containing materials. Personnel working on asbestos activities in schools must be trained and accredited in accordance with US EPA Asbestos Model Accreditation Plan requirements. Prior to renovation or demolition of asbestos containing materials facility owners must also comply with the US EPA Asbestos National Emissions Standards for Hazardous Air Pollutants (NESHAP) regulations.

The purpose of the Asbestos Containing Materials (AHERA) Survey was to identify asbestos-containing materials (ACMs) which may require special handling and/or disposal if removed disturbed during normal routine maintenance activities performed on the building.

## 3.0 METHODOLOGY

ECS performed the authorized Scope of Services in general accordance with our proposal, standard industry practice(s) and methods specified by regulation(s) for the identification of Asbestos-Containing Materials (ACMs). The following represents a summary of our onsite work performed on August 18, 2017.

### 3.1 Asbestos-Containing Materials

The non-invasive asbestos survey was performed by asbestos inspectors (License No. 3303003809) who have received EPA accredited training and are licensed by the Commonwealth of Virginia. Samples were collected in general accordance with EPA Standard 40 CFR 763 Subpart E, Asbestos Hazard Emergency Response Act (AHERA) and OSHA Standard 29 CFR 1926.1101 Inspection Protocol. Multiple samples of each unique material were submitted. Samples were analyzed using "Positive Stop" methodology. If one sample of a homogeneous material is reported to contain asbestos, the remaining samples of that material are not analyzed. EPA regulations stipulate that if one sample contains asbestos the entire quantity of that material contains asbestos, regardless of additional analysis.

Samples of suspect ACMs were collected utilizing hand tools and placed into individual, labeled plastic bags. Unique bulk suspect ACM samples were submitted to Environmental Hazards Services, LLC (EHS), Inc. in Richmond, Virginia for analysis via Polarized Light Microscopy (PLM) in accordance with current EPA-600 methodology. Materials consisting of additional layers were analyzed separately. EHS is listed as an accredited laboratory by the National Voluntary Laboratory Accreditation Plan



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(NVLAP) managed by the National Institute of Standards and Technology (NIST) for bulk sample analysis by currently approved EPA methodology by PLM.

During the survey, ECS attempted to identify suspect ACMs in readily accessible areas. However, due to the destructive means required to identify some materials, certain areas were deemed inaccessible (i.e. behind walls or sub grade materials) and were not surveyed for suspect ACMs. Unidentified suspect ACMs may be located in these and/or other inaccessible areas. In total, 78 bulk representative samples were submitted to the laboratory of which 121 layers were analyzed.

## 4.0 RESULTS

The following is a summary of laboratory results, findings and observations.

### 4.1 Asbestos-Containing Materials

Asbestos-Containing Material (ACMs) are defined as any material containing more than one percent (>1%) asbestos as determined using the method specified in Appendix A, Subpart F, 40 CFR Part 763, Section 1, PLM.

None of the materials submitted for analysis to EHS were reported to contain asbestos. Please refer to Table 1 attached to this report for a list of the suspect asbestos bulk samples collected during our survey.

### 4.2 Suspect or Assumed Asbestos-Containing Materials

Due to the inaccessibility or the destructive means that asbestos sampling requires, additional suspect ACMs may remain within the building hidden behind inaccessible areas that include, but are not limited to, sub-grade walls, structural members, topping slabs, sub-grade sealants, flooring located below underlayments, areas behind exterior walls, pipe trenches, and subsurface utilities, etc.. These areas/materials were deemed inaccessible and were not assessed during this survey.

If these materials are discovered during construction activities, they should be presumed to contain asbestos and be treated as asbestos-containing materials (ACMs) or, otherwise, sampled immediately upon discovery and prior to disturbance for asbestos content by a certified asbestos inspector in accordance with 29 CFR 1926.1101.

Materials which are commonly suspected to contain asbestos located in inaccessible areas of similarly constructed buildings include:

- Ceramic Wall/Floor Tile Mastics/Compounds;
- Fire Door and associated Casing Insulation in locations requiring a rated fire door and door casing;
- Roof Structures – roof systems;
- Waterproofing Membrane/Mastics/vapor barriers within exterior wall cavities, behind Interior finishes, exterior veneer and/or subgrade walls;
- Wood Flooring Felts



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## 5.0 RECOMMENDATIONS AND REGULATORY REQUIREMENTS

Based on our understanding of the purpose of the Initial AHERA Asbestos Survey, the results of laboratory analysis, and our findings and observations, ECS presents the following recommendations.

### 5.1 Asbestos-Containing Materials

None of the bulk samples submitted to EHS were reported to contain detectable concentrations of asbestos. If additional suspect asbestos-containing materials are uncovered during future renovation activities which were not accessible during this sampling event, it is recommended that these materials be sampled or tested immediately upon discovery for asbestos content by a certified asbestos inspector in accordance with 29 CFR 1926.1101.

Suspect ACMs may be present in inaccessible areas and portions of the building which were not assessed due to occupancy or locked areas. Prior to any renovation efforts which will involve any of those areas or the demolition of the building, a follow-up survey should be performed to include destructive means to access these areas as necessary. ECS recommends that this report be filed as part of the school facilities AHERA documentation.

## 6.0 LIMITATIONS

The conclusions and recommendations presented within this report are based upon a reasonable level of assessment within normal bounds and standards of professional practice for a site in this particular geographic setting. ECS is not responsible or liable for the discovery and elimination of hazards that may potentially cause damage, accidents, or injuries.

The observations, conclusions, and recommendations pertaining to environmental conditions at the subject site are necessarily limited to conditions observed, and/or materials reviewed at the time this study was undertaken. No warranty, expressed or implied, is made with regard to the conclusions and recommendations presented within this report. This report is provided for the exclusive use of the client. This report is not intended to be used or relied upon in connection with other projects or by other unidentified third parties without the written consent of ECS and the client.

During this study, samples were submitted for analysis at an accredited laboratory via polarized light microscopy. As with any similar survey of this nature, actual conditions exist only at the precise locations from which samples were collected. Certain inferences are based on the results of this sampling and related testing to form a professional opinion of conditions in areas beyond those from which the samples were collected. No other warranty, expressed or implied, is made.

Our recommendations are in part based on federal, state, and local regulations and guidelines. ECS does not assume the responsibility of the person(s) in charge of the site, or otherwise undertake responsibility for reporting to any local, state, or federal public agencies, any conditions at the site that may present a potential danger to public health, safety, or the environment. Under this scope of services, ECS assumes no responsibility regarding any response actions initiated as a result of these findings. General compliance with regulations and response actions are the sole responsibility of the Client and should be conducted in accordance with local, state, and/or federal requirements.





# **Appendix I: Asbestos Bulk Sample Results**

**TABLE 1**  
**BULK SAMPLING OF SUSPECT ASBESTOS-CONTAINING MATERIALS**

<u>Sample #</u>	<u>Sampling Location</u>	<u>Material/Description</u>	<u>Analytical Results</u>
1-1	HALL @ ROOM 402	White CMU Wall Coating	NAD
1-2	SPECIAL EDUCATION OFFICE	White CMU Wall Coating	NAD
1-3	MAIN GYM	White CMU Wall Coating	NAD
1-4	ROOM 222	White CMU Wall Coating	NAD
1-5	MAIN STREET HALL @ 9TH GRADE HALL	White CMU Wall Coating	NAD
1-6	ROOM 107	White CMU Wall Coating	NAD
1-7	ROOM 118	White CMU Wall Coating	NAD
2-1A	LAUNDRY ROOM	Grey 4" Vinyl Cove Baseboard	NAD
2-1B	LAUNDRY ROOM	Beige Mastic Associated with Grey 4" VCB	NAD
2-2A	2ND FLOOR STAIRWELL @ ROOM 215	Grey 4" Vinyl Cove Baseboard	NAD
2-2B	2ND FLOOR STAIRWELL @ ROOM 215	Beige Mastic Associated with Grey 4" VCB	NAD
2-3	ROOM 114	Grey 4" Vinyl Cove Baseboard and Mastic	Did Not Analyze (Sample Container)
3-1A	LOWER HALLWAY @ EXIT 7	White Speckled 12"x12" Floor Tile	NAD
3-1B	LOWER HALLWAY @ EXIT 7	Yellow Mastic Associated with White Speckled Floor Tile	NAD
3-1C	LOWER HALLWAY @ EXIT 7	Brown/Black Flooring Underlayment	NAD
3-2A	MAIN STREET HALLWAY @ LIBRARY ENTRANCE	White Speckled 12"x12" Floor Tile	NAD
3-2B	MAIN STREET HALLWAY @ LIBRARY ENTRANCE	Yellow Mastic Associated with White Speckled Floor Tile	NAD
3-2C	MAIN STREET HALLWAY @ LIBRARY ENTRANCE	Grey Leveling Compound	NAD
3-3A	LOWER HALLWAY @ EXIT 5	White Speckled 12"x12" Floor Tile	NAD
3-3B	LOWER HALLWAY @ EXIT 5	Yellow Mastic Associated with White Speckled Floor Tile	NAD

Table Notes:

NAD = No Asbestos Detected

N/A = Sample Not Analyzed; Positive Stop

**Bold** - Asbestos Containing Materials

<u>Sample #</u>	<u>Sampling Location</u>	<u>Material/Description</u>	<u>Analytical Results</u>
4-1A	MAIN STREET HALLWAY @ ROOM 218	Grey Speckled 12"x12" Floor Tile	NAD
4-1B	MAIN STREET HALLWAY @ ROOM 218	Clear Mastic Associated with Grey Speckled Floor Tile	NAD
4-2A	CAFETERIA @ DISH LINE	Grey Speckled 12"x12" Floor Tile	NAD
4-2B	CAFETERIA @ DISH LINE	Clear Mastic Associated with Grey Speckled Floor Tile	NAD
5-1A	LOWER HALL @ ROOM 111	Yellow Mottled 12"x12" Floor Tile	NAD
5-1B	LOWER HALL @ ROOM 111	Yellow Mastic Associated with Yellow Floor Tile	NAD
5-1C	LOWER HALL @ ROOM 111	Grey Leveling Compound	NAD
6-1A	HALL @ MEN'S LOCKER ROOM	White with Grey Smear 12"x12" Floor Tile	NAD
6-1B	HALL @ MEN'S LOCKER ROOM	Clear Mastic Associated with White/Grey Smear Floor Tile	NAD
6-2A	HALL @ MECHANICAL ROOM	White with Grey Smear 12"x12" Floor Tile	NAD
6-2B	HALL @ MECHANICAL ROOM	Yellow Mastic Associated with White/Grey Smear Floor Tile	NAD
6-2C	HALL @ MECHANICAL ROOM	Grey Leveling Compound	NAD
7-1	ATHLETIC DIRECTOR'S OFFICE	Pinhole/Divot Ceiling Tile	NAD
7-2	ROOM 218	Pinhole/Divot Ceiling Tile	NAD
7-3	ROOM 119	Pinhole/Divot Ceiling Tile	NAD
8-1	ROOM 131	Spray-on Fireproofing	NAD
8-2	WEIGHT ROOM	Spray-on Fireproofing	NAD
8-3	WEIGHT ROOM	Spray-on Fireproofing	NAD
8-4	WEIGHT ROOM	Spray-on Fireproofing	NAD
8-5	WEIGHT ROOM	Spray-on Fireproofing	NAD
9-1	LOWER HALL LOCKERS @ ROOM 122	Drywall Wall	NAD
9-2A	LOWER HALL LOCKERS @ ROOM 122	Drywall Wall	NAD

Table Notes:

NAD = No Asbestos Detected

N/A = Sample Not Analyzed; Positive Stop

**Bold** - Asbestos Containing Materials

<u>Sample #</u>	<u>Sampling Location</u>	<u>Material/Description</u>	<u>Analytical Results</u>
9-2B	LOWER HALL LOCKERS @ ROOM 122	Ceiling Tile	NAD
9-3A	MAIN OFFICE	Drywall Wall	NAD
9-3B	MAIN OFFICE	Drywall Joint Compound	NAD
9-4A	MAIN OFFICE	Drywall Wall	NAD
9-4B	MAIN OFFICE	Drywall Joint Compound	NAD
10-1A	LOWER HALL @ EXIT 7	Grey Mottled 12"x12" Floor Tile	NAD
10-1B	LOWER HALL @ EXIT 7	Clear Mastic Associated with Grey Mottled Floor Tile	NAD
10-1C	LOWER HALL @ EXIT 7	White Leveling Compound	NAD
10-1D	LOWER HALL @ EXIT 7	Grey Leveling Compound	NAD
10-2	LOWER HALL @ ROOM 134	Grey Mottled 12"x12" Floor Tile	NAD
11-1A	MAIN STREET HALLWAY @ ROOM 210	Blue Mottled 12"x12" Floor Tile	NAD
11-1B	MAIN STREET HALLWAY @ ROOM 210	Yellow Mastic Associated with Blue Mottled Floor Tile	NAD
11-1C	MAIN STREET HALLWAY @ ROOM 210	Grey Leveling Compound	NAD
12-1A	MAIN STREET HALLWAY @ ROOM 211	Dark Blue Mottled 12"x12" Floor Tile	NAD
12-1B	MAIN STREET HALLWAY @ ROOM 211	Yellow Mastic Associated with Dark Blue Floor Tile	NAD
13-1A	CUSTODIAN WORKSHOP	Drywall Ceiling	NAD
13-1B	CUSTODIAN WORKSHOP	Drywall Joint Compound	NAD
13-2A	CUSTODIAN WORKSHOP	Drywall Ceiling	NAD
13-2B	CUSTODIAN WORKSHOP	Drywall Joint Compound	NAD
14-1A	MAIN STREET HALLWAY @ ROOM 219	Red Mottled 12"x12" Floor Tile	NAD
14-1B	MAIN STREET HALLWAY @ ROOM 219	Yellow Mastic Associated with Red Mottled Floor Tile	NAD
15-1	KITCHEN	Smooth Ceiling Tile	NAD

Table Notes:

NAD = No Asbestos Detected

N/A = Sample Not Analyzed; Positive Stop

**Bold** - Asbestos Containing Materials

<u>Sample #</u>	<u>Sampling Location</u>	<u>Material/Description</u>	<u>Analytical Results</u>
15-2	KITCHEN	Smooth Ceiling Tile	NAD
16-1A	LOWER LEVEL STORAGE CLOSET	White HVAC Duct Wrap Mastic	NAD
16-1B	LOWER LEVEL STORAGE CLOSET	HVAC Duct Wrap	NAD
16-2A	LOWER LEVEL STORAGE CLOSET	White HVAC Duct Wrap Mastic	NAD
16-2B	LOWER LEVEL STORAGE CLOSET	HVAC Duct Wrap	NAD
17-1	LOWER LEVEL STORAGE CLOSET	Grey Metal HVAC Duct Mastic	NAD
17-2	LOWER LEVEL STORAGE CLOSET	Grey Metal HVAC Duct Mastic	NAD
18-1	MECHANICAL ROOM COLD WATER SUPPLY #6	White Fiberglass Pipe Insulation Mastic	NAD
18-2	MECHANICAL ROOM COLD WATER RETURN #5	White Fiberglass Pipe Insulation Mastic	NAD
19-1	MECHANICAL ROOM	Red Fire Stop Caulk	NAD
19-2	MECHANICAL ROOM	Red Fire Stop Caulk	NAD
20-1	ROOM 128	White Sink Undercoating	NAD
20-2	NURSES OFFICE	White Sink Undercoating	NAD
21-1	ROOM 308	Interior Metal Door Caulk	NAD
21-2	ROOM 214	Interior Metal Door Caulk	NAD
22-1	FIRST HALL @ T-2-GO	Interior Brick Column Caulk	NAD
22-2	FIRST HALL @ CONCESSION	Interior Brick Column Caulk	NAD
23-1	FIRST HALL @ ROOM 401	Interior Wall Expansion Caulk	NAD
23-2	FIRST HALL @ ROOM 401	Interior Wall Expansion Caulk	NAD
24-1	MECHANICAL ROOM AIR HANDLER UNIT 14	Brown Metal HVAC Duct Mastic	NAD
24-2	MECHANICAL ROOM AIR HANDLER UNIT 14	Brown Metal HVAC Duct Mastic	NAD
25-1	ROOM 403	Grey Sink Undercoating	NAD

Table Notes:

NAD = No Asbestos Detected

N/A = Sample Not Analyzed; Positive Stop

**Bold** - Asbestos Containing Materials

<u>Sample #</u>	<u>Sampling Location</u>	<u>Material/Description</u>	<u>Analytical Results</u>
25-2	ROOM 403	Grey Sink Undercoating	NAD
26-1	IT BUILDING BATHROOM	Drywall Wall	NAD
26-2	IT BUILDING BATHROOM	Drywall Wall	NAD
27-1A	IT BUILDING BATHROOM	Drywall Ceiling Joint Compound	NAD
27-1B	IT BUILDING BATHROOM	Drywall Ceiling	NAD
27-2A	IT BUILDING BATHROOM	Drywall Ceiling Joint Compound	NAD
27-2B	IT BUILDING BATHROOM	Drywall Ceiling	NAD
27-3A	IT BUILDING BATHROOM	Drywall Ceiling Joint Compound	NAD
27-3B	IT BUILDING BATHROOM	Drywall Ceiling	NAD
28-1A	BASEBALL FIELD HOUSE MAIN STORAGE AREA	Drywall Wall Joint Compound	NAD
28-1B	BASEBALL FIELD HOUSE MAIN STORAGE AREA	Drywall Wall	NAD
28-2A	BASEBALL FIELD HOUSE MAIN STORAGE AREA	Drywall Wall Joint Compound	NAD
28-2B	BASEBALL FIELD HOUSE MAIN STORAGE AREA	Drywall Wall	NAD
28-3A	BASEBALL FIELD HOUSE MAIN STORAGE AREA	Drywall Wall Joint Compound	NAD
28-3B	BASEBALL FIELD HOUSE MAIN STORAGE AREA	Drywall Wall	NAD
29-1	BASEBALL FIELD HOUSE MAIN STORAGE AREA	Drywall Texture Paint	NAD
29-2	BASEBALL FIELD HOUSE MAIN STORAGE AREA	Drywall Texture Paint	NAD
30-1A	BASEBALL FIELD HOUSE LOCKER AREA	Grey 12"x12" Floor Tile	NAD
30-1B	BASEBALL FIELD HOUSE LOCKER AREA	Yellow Mastic Associated with Grey Floor Tile	NAD
30-1C	BASEBALL FIELD HOUSE LOCKER AREA	Grey Leveling Compound	NAD
30-2A	BASEBALL FIELD HOUSE LOCKER AREA	Grey 12"x12" Floor Tile	NAD
30-2B	BASEBALL FIELD HOUSE LOCKER AREA	Yellow Mastic Associated with Grey Floor Tile	NAD

Table Notes:

NAD = No Asbestos Detected

N/A = Sample Not Analyzed; Positive Stop

**Bold** - Asbestos Containing Materials

<u>Sample #</u>	<u>Sampling Location</u>	<u>Material/Description</u>	<u>Analytical Results</u>
30-2C	BASEBALL FIELD HOUSE LOCKER AREA	Grey Leveling Compound	NAD
31-1A	BASEBALL FIELD HOUSE LOCKER AREA	Blue 4" Vinyl Cove Baseboard	NAD
31-1B	BASEBALL FIELD HOUSE LOCKER AREA	Yellow Mastic Associated with Blue VCB	NAD
31-2A	BASEBALL FIELD HOUSE LOCKER AREA	Blue 4" Vinyl Cove Baseboard	NAD
31-2B	BASEBALL FIELD HOUSE LOCKER AREA	Yellow Mastic Associated with Blue VCB	NAD
32-1	SOCCER FIELD HOUSE	White CMU Wall Coating	NAD
32-2	SOCCER FIELD HOUSE	White CMU Wall Coating	NAD
33-1A	SOCCER FIELD HOUSE	Drywall Joint Compound	NAD
33-1B	SOCCER FIELD HOUSE	Drywall Wall	NAD
33-2A	SOCCER FIELD HOUSE	Drywall Joint Compound	NAD
33-2B	SOCCER FIELD HOUSE	Drywall	NAD
34-1A	SOCCER FIELD HOUSE	Drywall Joint Compound	NAD
34-1B	SOCCER FIELD HOUSE	Drywall	NAD

Table Notes:

NAD = No Asbestos Detected

N/A = Sample Not Analyzed; Positive Stop

**Bold** - Asbestos Containing Materials

# **Appendix II: Site Photographs**





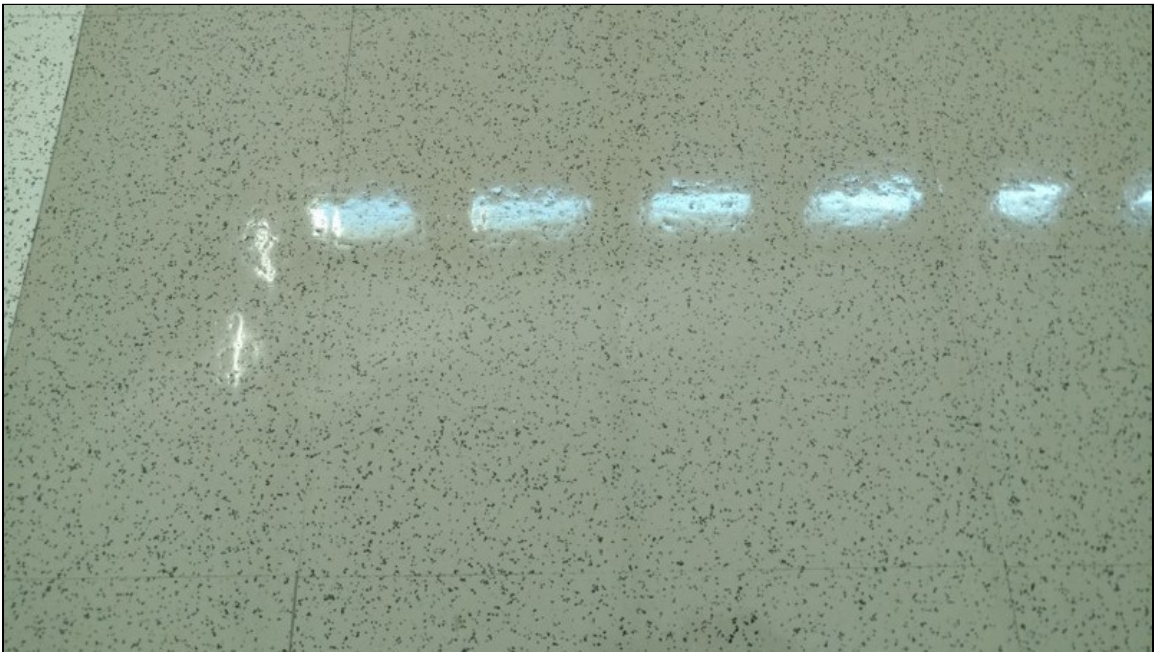
1 - View of typical CMU wall coating



2 - View of typical grey 4" vinyl cove baseboard



3 - View of typical white speckled 12"x12" floor tile



4 - View of typical grey speckled 12"x12" floor tile



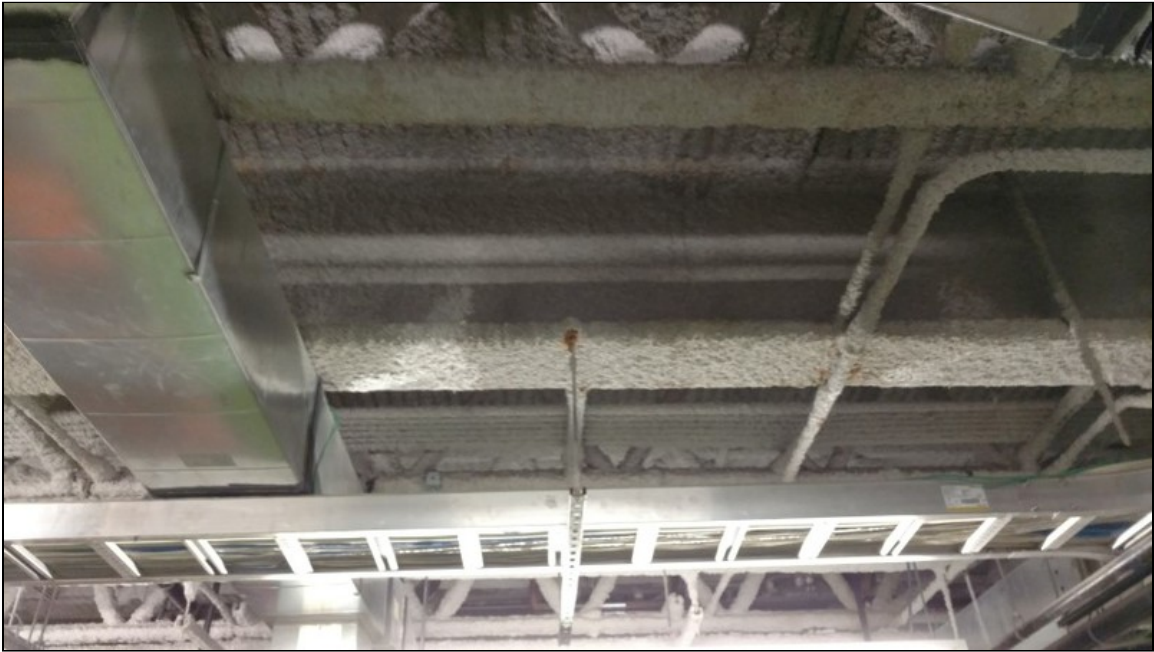
5 - View of typical yellow mottled floor tile



6 - View of typical white with grey smear 12"x12" floor tile



7 - View of typical pinhole/divot ceiling tile



8 - View of typical spray-on fireproofing



9 - View of typical grey mottled 12"x12" floor tile



10 - View of blue mottled 12"x12" floor tile



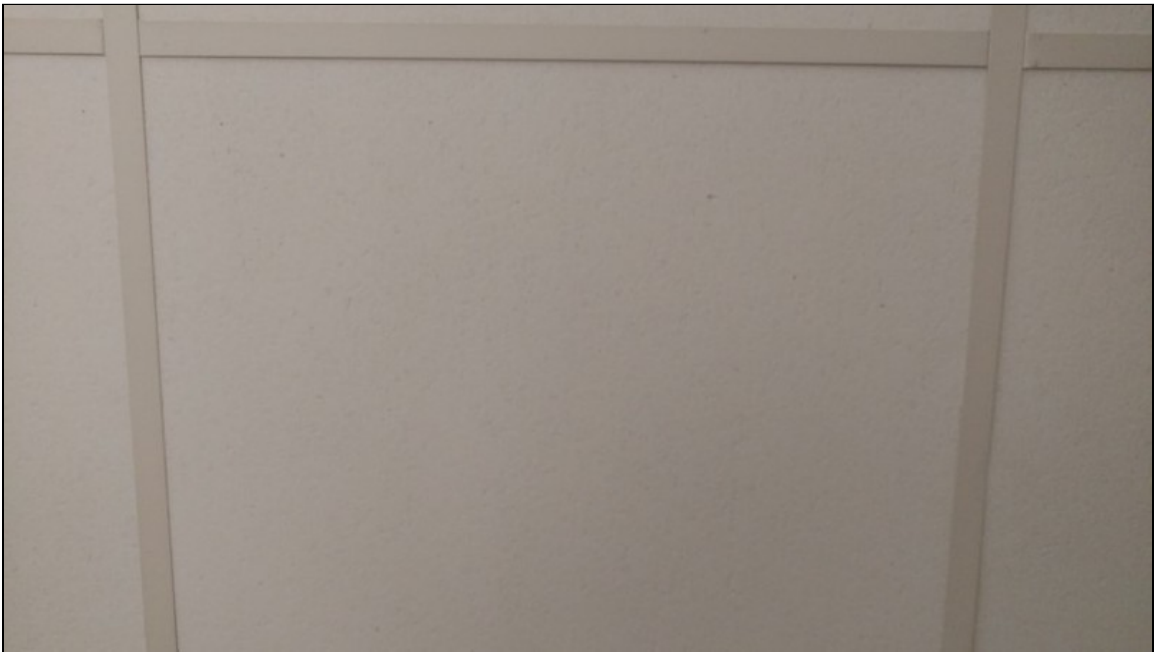
11 - View of typical dark blue mottled 12"x12" floor tile



12 - view of typical drywall ceiling



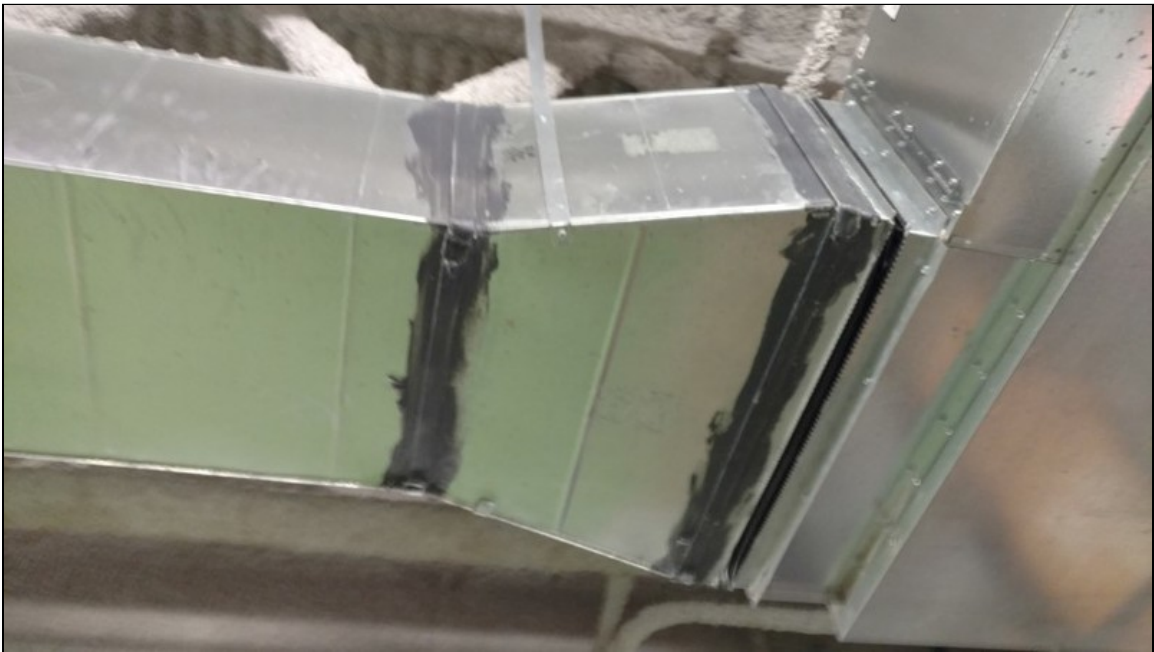
13 - View of typical red mottled 12"x12" floor tile



14 - View of typical smooth ceiling tile



15 - View of typical white HVAC duct wrap mastic



16 - View of typical grey metal HVAC duct mastic





17 - View of typical white fiberglass pipe insulation mastic



18 - View of typical red fire caulk



19 - View of typical white sink undercoating



20 - View of typical interior column caulk



21 - View of typical interior wall expansion caulk



22 - View of typical brown HVAC duct mastic



23 - View of typical grey sink undercoating

# **Appendix III: Laboratory Report(s)**



# Asbestos Bulk Analysis Report

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

**Report Number:** 17-08-02913

**Client:** ECS Mid-Atlantic - Roanoke  
7670 Enon Drive  
Suite 101  
Roanoke, VA 24019

**Received Date:** 08/21/2017  
**Analyzed Date:** 08/22/2017  
**Reported Date:** 08/24/2017

**Project/Test Address:** RCPS - Hidden Valley High School; Roanoke, VA

**Client Number:**  
200608

**Fax Number:**

## Laboratory Results

Lab Sample Number <i>Client Sample Number</i>	Layer Type	Lab Gross Description <i>Client Sample Description</i>	Asbestos	Other Materials
17-08-02913-001  1-1		White Brittle; Light Gray Paint-Like; Inhomogeneous  <i>CMU Wall Coating</i>	NAD	100% Non-Fibrous
17-08-02913-002  1-2		White Brittle; Light Gray Paint-Like; Inhomogeneous  <i>CMU Wall Coating</i>	NAD	100% Non-Fibrous
17-08-02913-003  1-3		White Brittle; Light Gray Paint-Like; Inhomogeneous  <i>CMU Wall Coating</i>	NAD	100% Non-Fibrous
17-08-02913-004  1-4		White Brittle; Light Gray Paint-Like; Inhomogeneous  <i>CMU Wall Coating</i>	NAD	100% Non-Fibrous
17-08-02913-005  1-5		White Brittle; Light Gray Paint-Like; Inhomogeneous  <i>CMU Wall Coating</i>	NAD	100% Non-Fibrous

# Environmental Hazards Services, L.L.C

**Client Number:** 200608  
**Project/Test Address:** RCPS - Hidden Valley High School;  
 Roanoke, VA

**Report Number:** 17-08-02913

Lab Sample Number <i>Client Sample Number</i>	Layer Type	Lab Gross Description <i>Client Sample Description</i>	Asbestos	Other Materials
17-08-02913-006  1-6		White Brittle; Light Gray Paint-Like; Inhomogeneous  <i>CMU Wall Coating</i>	NAD	100% Non-Fibrous
17-08-02913-007  1-7		White Brittle; Light Gray Paint-Like; Inhomogeneous  <i>CMU Wall Coating</i>	NAD	100% Non-Fibrous
17-08-02913-008A  2-1	Cove Base	Gray Vinyl; Homogeneous  <i>Grey 4" Vinyl Cove Baseboard and Mastic</i>	NAD	100% Non-Fibrous
17-08-02913-008B  2-1	Mastic	Beige Adhesive; Homogeneous  <i>Grey 4" Vinyl Cove Baseboard and Mastic</i>	NAD	100% Non-Fibrous
17-08-02913-009A  2-2	Cove Base	Gray Vinyl; Homogeneous  <i>Grey 4" Vinyl Cove Baseboard and Mastic</i>	NAD	100% Non-Fibrous
17-08-02913-009B  2-2	Mastic	Beige Adhesive; Homogeneous  <i>Grey 4" Vinyl Cove Baseboard and Mastic</i>	NAD	100% Non-Fibrous
17-08-02913-010  2-3			Did Not Analyze (Sample Container Empty)	
17-08-02913-011A  3-1	Tile	White Vinyl-Like; Homogeneous  <i>White Speckled 12"x12" Floor Tile and Mastic</i>	NAD	100% Non-Fibrous

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Lab Sample Number <i>Client Sample Number</i>	Layer Type	Lab Gross Description <i>Client Sample Description</i>	Asbestos	Other Materials
17-08-02913-011B  3-1	Mastic	Yellow Adhesive; Homogeneous  <i>White Speckled 12"x12" Floor Tile and Mastic</i>	NAD	3% Cellulose 97% Non-Fibrous
17-08-02913-011C  3-1	Underlay- ment	Brown-Black Fibrous; Homogeneous  <i>White Speckled 12"x12" Floor Tile and Mastic</i>	NAD	85% Cellulose 15% Non-Fibrous
17-08-02913-012A  3-2	Caulk	Gray Pliable; Homogeneous  <i>White Speckled 12"x12" Floor Tile and Mastic</i>	NAD	100% Non-Fibrous
17-08-02913-012B  3-2	Tile	White Vinyl-Like; Homogeneous  <i>White Speckled 12"x12" Floor Tile and Mastic</i>	NAD	100% Non-Fibrous
Insufficient amount of mastic present for analysis.				
17-08-02913-012C  3-2	Leveling Comp.	Gray Cementitious; Homogeneous  <i>White Speckled 12"x12" Floor Tile and Mastic</i>	NAD	2% Cellulose 98% Non-Fibrous
17-08-02913-013A  3-3	Tile	White Vinyl-Like; Homogeneous  <i>White Speckled 12"x12" Floor Tile and Mastic</i>	NAD	100% Non-Fibrous
17-08-02913-013B  3-3	Mastic	Yellow Adhesive; Homogeneous  <i>White Speckled 12"x12" Floor Tile and Mastic</i>	NAD	1% Cellulose 99% Non-Fibrous
17-08-02913-014A  4-1	Tile	Gray Vinyl-Like; Homogeneous  <i>Grey Speckled 12"x12" Floor Tile and Mastic</i>	NAD	100% Non-Fibrous



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Lab Sample Number <i>Client Sample Number</i>	Layer Type	Lab Gross Description <i>Client Sample Description</i>	Asbestos	Other Materials
17-08-02913-014B  4-1	Mastic	Clear Adhesive; Homogeneous  <i>Grey Speckled 12"x12" Floor Tile and Mastic</i>	NAD	1% Cellulose 99% Non-Fibrous
17-08-02913-015A  4-2	Tile	Gray Vinyl-Like; Homogeneous  <i>Grey Speckled 12"x12" Floor Tile and Mastic</i>	NAD	100% Non-Fibrous
17-08-02913-015B  4-2	Mastic	Clear-Yellow Adhesive; Homogeneous  <i>Grey Speckled 12"x12" Floor Tile and Mastic</i>	NAD	1% Cellulose 99% Non-Fibrous
17-08-02913-016A  5-1	Tile	Yellow Vinyl-Like; Homogeneous  <i>Yellow Mottled 12"x12" Floor Tile and Mastic</i>	NAD	100% Non-Fibrous
17-08-02913-016B  5-1	Mastic	Yellow Adhesive; Homogeneous  <i>Yellow Mottled 12"x12" Floor Tile and Mastic</i>	NAD	1% Cellulose 99% Non-Fibrous
17-08-02913-016C  5-1	Leveling Comp.	Gray Vinyl-Like; Homogeneous  <i>Yellow Mottled 12"x12" Floor Tile and Mastic</i>	NAD	1% Cellulose 99% Non-Fibrous
17-08-02913-017A  6-1	Tile	White Vinyl-Like; Homogeneous  <i>White with Grey Smear 12"x12" Floor Tile</i>	NAD	100% Non-Fibrous
17-08-02913-017B  6-1	Mastic	Clear Adhesive; Homogeneous  <i>White with Grey Smear 12"x12" Floor Tile</i>	NAD	1% Cellulose 99% Non-Fibrous

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Lab Sample Number <i>Client Sample Number</i>	Layer Type	Lab Gross Description <i>Client Sample Description</i>	Asbestos	Other Materials
17-08-02913-018A 6-2	Tile	White Vinyl-Like; Homogeneous <i>White with Grey Smear 12"x12" Floor Tile</i>	NAD	100% Non-Fibrous
17-08-02913-018B 6-2	Mastic	Yellow Adhesive; Homogeneous <i>White with Grey Smear 12"x12" Floor Tile</i>	NAD	1% Cellulose 99% Non-Fibrous
17-08-02913-018C 6-2	Leveling Comp.	Gray Granular; Homogeneous <i>White with Grey Smear 12"x12" Floor Tile</i>	NAD	1% Cellulose 99% Non-Fibrous
17-08-02913-019 7-1		Beige Fibrous; White Paint-Like; Inhomogeneous <i>Pinhole/Divot Ceiling Tile</i>	NAD	60% Cellulose 30% Fibrous Glass 10% Non-Fibrous
17-08-02913-020 7-2		Beige Fibrous; White Paint-Like; Inhomogeneous <i>Pinhole/Divot Ceiling Tile</i>	NAD	60% Cellulose 30% Fibrous Glass 10% Non-Fibrous
17-08-02913-021 7-3		Beige Fibrous; White Paint-Like; Inhomogeneous <i>Pinhole/Divot Ceiling Tile</i>	NAD	60% Cellulose 30% Fibrous Glass 10% Non-Fibrous
17-08-02913-022 8-1		Gray Fibrous; Homogeneous <i>Spray-on Fireproofing</i>	NAD	85% Cellulose 10% Hair 5% Non-Fibrous

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Lab Sample Number <i>Client Sample Number</i>	Layer Type	Lab Gross Description <i>Client Sample Description</i>	Asbestos	Other Materials
17-08-02913-023  8-2		Light Gray Powdery Fibrous; Homogeneous  <i>Spray-on Fireproofing</i>	NAD	30% Cellulose 70% Non-Fibrous
17-08-02913-024  8-3		Light Gray Powdery Fibrous; Homogeneous  <i>Spray-on Fireproofing</i>	NAD	30% Cellulose 70% Non-Fibrous
17-08-02913-025  8-4		Light Gray Powdery Fibrous; Homogeneous  <i>Spray-on Fireproofing</i>	NAD	35% Cellulose 65% Non-Fibrous
17-08-02913-026  8-5		Light Gray Powdery Fibrous; Homogeneous  <i>Spray-on Fireproofing</i>	NAD	35% Cellulose 65% Non-Fibrous
17-08-02913-027  9-1		White Chalky; Brown Fibrous; Light Gray Paint-Like; Inhomogeneous  <i>Drywall Wall</i>	NAD	15% Cellulose 85% Non-Fibrous
17-08-02913-028A  9-2	Drywall	White Chalky; Brown Fibrous; Inhomogeneous  <i>Drywall Wall</i>	NAD	10% Cellulose 90% Non-Fibrous
17-08-02913-028B  9-2	Ceiling Tile	Beige Fibrous; White Paint-Like; Inhomogeneous  <i>Drywall Wall</i>	NAD	60% Cellulose 30% Fibrous Glass 10% Non-Fibrous

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Lab Sample Number <i>Client Sample Number</i>	Layer Type	Lab Gross Description <i>Client Sample Description</i>	Asbestos	Other Materials
17-08-02913-029A  9-3	Drywall	White Chalky; Brown Fibrous; Inhomogeneous  <i>Drywall and Joint Compound Wall</i>	NAD	15% Cellulose 85% Non-Fibrous
17-08-02913-029B  9-3	Joint Comp.	White Granular; Light Gray Paint-Like; Inhomogeneous  <i>Drywall and Joint Compound Wall</i>	NAD	100% Non-Fibrous
17-08-02913-030A  9-4	Drywall	White Chalky; Brown Fibrous; Inhomogeneous  <i>Drywall and Joint Compound Wall</i>	NAD	15% Cellulose 85% Non-Fibrous
17-08-02913-030B  9-4	Joint Comp.	White Granular; Light Gray Paint-Like; Inhomogeneous  <i>Drywall and Joint Compound Wall</i>	NAD	100% Non-Fibrous
17-08-02913-031A  10-1	Tile	Gray Vinyl-Like; Homogeneous  <i>Grey Mottled 12"x12" Floor Tile and Mastic</i>	NAD	100% Non-Fibrous
17-08-02913-031B  10-1	Mastic	Clear Adhesive; Homogeneous  <i>Grey Mottled 12"x12" Floor Tile and Mastic</i>	NAD	100% Non-Fibrous
17-08-02913-031C  10-1	Other *	White Brittle; Homogeneous  <i>Grey Mottled 12"x12" Floor Tile and Mastic</i>	NAD	100% Non-Fibrous
*Leveling Compound I				
17-08-02913-031D  10-1	Other *	Gray Granular; Homogeneous  <i>Grey Mottled 12"x12" Floor Tile and Mastic</i>	NAD	100% Non-Fibrous

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Lab Sample Number <i>Client Sample Number</i>	Layer Type	Lab Gross Description <i>Client Sample Description</i>	Asbestos	Other Materials
<i>*Leveling Compound II</i>				
17-08-02913-032 <i>10-2</i>		Gray Vinyl-Like; Homogeneous <i>Grey Mottled 12"x12" Floor Tile and Mastic</i>	NAD	100% Non-Fibrous
Insufficient amount of mastic present for analysis.				
17-08-02913-033A <i>11-1</i>	Tile	Blue Vinyl-Like; Homogeneous <i>Blue Mottled 12"x12" Floor Tile</i>	NAD	100% Non-Fibrous
17-08-02913-033B <i>11-1</i>	Mastic	Yellow Adhesive; Homogeneous <i>Blue Mottled 12"x12" Floor Tile</i>	NAD	1% Cellulose 99% Non-Fibrous
17-08-02913-033C <i>11-1</i>	Leveling Comp.	Gray Granular; Homogeneous <i>Blue Mottled 12"x12" Floor Tile</i>	NAD	1% Cellulose 99% Non-Fibrous
17-08-02913-034A <i>12-1</i>	Tile	Dark Blue Vinyl-Like; Homogeneous <i>Dark Blue Mottled 12"x12" Floor Tile</i>	NAD	100% Non-Fibrous
17-08-02913-034B <i>12-1</i>	Mastic	Yellow Adhesive; Homogeneous <i>Dark Blue Mottled 12"x12" Floor Tile</i>	NAD	2% Cellulose 98% Non-Fibrous
17-08-02913-035A <i>13-1</i>	Drywall	White Chalky; Brown Fibrous; Inhomogeneous <i>Drywall and Joint Compound Ceiling</i>	NAD	15% Cellulose 85% Non-Fibrous

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17-08-02913-035B  13-1	Joint Comp.	White Granular; Homogeneous  <i>Drywall and Joint Compound Ceiling</i>	NAD	100% Non-Fibrous
17-08-02913-036A  13-2	Drywall	White Chalky; Brown Fibrous; Inhomogeneous  <i>Drywall and Joint Compound Ceiling</i>	NAD	15% Cellulose 85% Non-Fibrous
17-08-02913-036B  13-2	Joint Comp.	White Granular; Paint-Like; Inhomogeneous  <i>Drywall and Joint Compound Ceiling</i>	NAD	100% Non-Fibrous
17-08-02913-037A  14-1	Tile	Red Vinyl-Like; Homogeneous  <i>Red Mottled 12"x12" Floor Tile and Mastic</i>	NAD	100% Non-Fibrous
17-08-02913-037B  14-1	Mastic	Yellow Adhesive; Homogeneous  <i>Red Mottled 12"x12" Floor Tile and Mastic</i>	NAD	2% Cellulose 98% Non-Fibrous
17-08-02913-038  15-1		Gray Fibrous; White Paint-Like; Inhomogeneous  <i>Smooth Ceiling Tile</i>	NAD	80% Fibrous Glass 20% Non-Fibrous
17-08-02913-039  15-2		Gray Fibrous; White Paint-Like; Inhomogeneous  <i>Smooth Ceiling Tile</i>	NAD	80% Fibrous Glass 20% Non-Fibrous
17-08-02913-040A  16-1	Mastic	White Pliable; Homogeneous  <i>White HVAC Duct Wrap Mastic</i>	NAD	100% Non-Fibrous

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17-08-02913-040B  16-1	Covering/J acket	Tan/White Fibrous; Silver Foil; Inhomogeneous  <i>White HVAC Duct Wrap Mastic</i>	NAD	40% Cellulose 15% Fibrous Glass 45% Non-Fibrous
17-08-02913-041A  16-2	Mastic	White Pliable; Homogeneous  <i>White HVAC Duct Wrap Mastic</i>	NAD	100% Non-Fibrous
17-08-02913-041B  16-2	Covering/J acket	Tan/White Fibrous; Silver Foil; Inhomogeneous  <i>White HVAC Duct Wrap Mastic</i>	NAD	40% Cellulose 15% Fibrous Glass 45% Non-Fibrous
17-08-02913-042  17-1		Gray Adhesive; Homogeneous  <i>Grey Metal HVAC Duct Mastic</i>	NAD	2% Cellulose 98% Non-Fibrous
17-08-02913-043  17-2		Gray Adhesive; Homogeneous  <i>Grey Metal HVAC Duct Mastic</i>	NAD	2% Cellulose 98% Non-Fibrous
17-08-02913-044  18-1		White Adhesive; Homogeneous  <i>White Fiberglass Pipe Insulation Mastic</i>	NAD	100% Non-Fibrous
17-08-02913-045  18-2		White Adhesive; Homogeneous  <i>White Fiberglass Pipe Insulation Mastic</i>	NAD	100% Non-Fibrous

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Lab Sample Number <i>Client Sample Number</i>	Layer Type	Lab Gross Description <i>Client Sample Description</i>	Asbestos	Other Materials
17-08-02913-046  19-1		Red Pliable; Homogeneous  <i>Red Fire Stop Caulk</i>	NAD	15% Synthetic 85% Non-Fibrous
17-08-02913-047  19-2		Red Pliable; Homogeneous  <i>Red Fire Stop Caulk</i>	NAD	15% Synthetic 85% Non-Fibrous
17-08-02913-048  20-1		Off-White Flaky; Homogeneous  <i>White Sink Undercoating</i>	NAD	7% Cellulose 93% Non-Fibrous
17-08-02913-049  20-2		Off-White Flaky; Homogeneous  <i>White Sink Undercoating</i>	NAD	7% Cellulose 93% Non-Fibrous
17-08-02913-050  21-1		Blue/Tan Paint-Like; White Pliable; Inhomogeneous  <i>Interior Metal Door Caulk</i>	NAD	100% Non-Fibrous
17-08-02913-051  21-2		Off-White/Blue Paint-Like; Tan Pliable; Inhomogeneous  <i>Interior Metal Door Caulk</i>	NAD	100% Non-Fibrous
17-08-02913-052  22-1		Tan Pliable; Homogeneous  <i>Interior Brick Column Caulk</i>	NAD	100% Non-Fibrous
17-08-02913-053  22-2		Tan Pliable; Homogeneous  <i>Interior Brick Column Caulk</i>	NAD	100% Non-Fibrous



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Lab Sample Number <i>Client Sample Number</i>	Layer Type	Lab Gross Description <i>Client Sample Description</i>	Asbestos	Other Materials
17-08-02913-054  23-1		Off-White Paint-Like; White Pliable; Inhomogeneous  <i>Interior Wall Expansion Caulk</i>	NAD	100% Non-Fibrous
17-08-02913-055  23-2		Off-White Paint-Like; White Pliable; Inhomogeneous  <i>Interior Wall Expansion Caulk</i>	NAD	100% Non-Fibrous
17-08-02913-056  24-1		Brown Adhesive; Homogeneous  <i>Brown Metal HVAC Duct Mastic</i>	NAD	2% Cellulose 98% Non-Fibrous
17-08-02913-057  24-2		Brown Adhesive; Homogeneous  <i>Brown Metal HVAC Duct Mastic</i>	NAD	2% Cellulose 98% Non-Fibrous
17-08-02913-058  25-1		Gray Flaky; Homogeneous  <i>Grey Sink Undercoating</i>	NAD	10% Cellulose 90% Non-Fibrous
17-08-02913-059  25-2		Gray Flaky; Homogeneous  <i>Grey Sink Undercoating</i>	NAD	10% Cellulose 90% Non-Fibrous
17-08-02913-060  26-1		White Paint-Like; Brown Fibrous; Gray Chalky; Inhomogeneous  <i>Drywall and Joint Compound Wall</i>	NAD	15% Cellulose 85% Non-Fibrous
<b>Joint compound not present</b>				

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17-08-02913-061  26-2		White Paint-Like; Brown Fibrous; Gray Chalky; Inhomogeneous  <i>Drywall and Joint Compound Wall</i>	NAD	15% Cellulose 85% Non-Fibrous
Joint compound not present				
17-08-02913-062A  27-1	Joint Comp.	White Paint-Like; White Powdery; Inhomogeneous  <i>Drywall and Joint Compound Ceiling</i>	NAD	2% Cellulose 98% Non-Fibrous
17-08-02913-062B  27-1	Drywall	Brown Fibrous; Gray Chalky; Inhomogeneous  <i>Drywall and Joint Compound Ceiling</i>	NAD	15% Cellulose 85% Non-Fibrous
17-08-02913-063A  27-2	Joint Comp.	White Paint-Like; White Powdery; Inhomogeneous  <i>Drywall and Joint Compound Ceiling</i>	NAD	2% Cellulose 98% Non-Fibrous
17-08-02913-063B  27-2	Drywall	Brown Fibrous; Gray Chalky; Inhomogeneous  <i>Drywall and Joint Compound Ceiling</i>	NAD	15% Cellulose 85% Non-Fibrous
17-08-02913-064A  27-3	Joint Comp.	White Paint-Like; White Powdery; Inhomogeneous  <i>Drywall and Joint Compound Ceiling</i>	NAD	100% Non-Fibrous
17-08-02913-064B  27-3	Drywall	Brown Fibrous; Gray Chalky; Inhomogeneous  <i>Drywall and Joint Compound Ceiling</i>	NAD	15% Cellulose 85% Non-Fibrous

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17-08-02913-065A  28-1	Joint Comp.	White Paint-Like; White Chalky; Inhomogeneous  <i>Drywall and Joint Compound Wall</i>	NAD	2% Cellulose 98% Non-Fibrous
17-08-02913-065B  28-1	Drywall	Brown Fibrous; Off-White Chalky; Inhomogeneous  <i>Drywall and Joint Compound Wall</i>	NAD	15% Cellulose 10% Fibrous Glass 75% Non-Fibrous
17-08-02913-066A  28-2	Joint Comp.	White Paint-Like; White Chalky; Inhomogeneous  <i>Drywall and Joint Compound Wall</i>	NAD	2% Cellulose 98% Non-Fibrous
17-08-02913-066B  28-2	Drywall	Brown Fibrous; Off-White Chalky; Inhomogeneous  <i>Drywall and Joint Compound Wall</i>	NAD	15% Cellulose 10% Fibrous Glass 75% Non-Fibrous
17-08-02913-067A  28-3	Joint Comp.	White Paint-Like; White Chalky; Inhomogeneous  <i>Drywall and Joint Compound Wall</i>	NAD	2% Cellulose 98% Non-Fibrous
17-08-02913-067B  28-3	Drywall	Brown Fibrous; Off-White Chalky; Inhomogeneous  <i>Drywall and Joint Compound Wall</i>	NAD	15% Cellulose 5% Fibrous Glass 80% Non-Fibrous
17-08-02913-068  29-1		White Paint-Like; White Chalky; Gray Cementitious; Inhomogeneous  <i>Drywall Texture Paint</i>	NAD	100% Non-Fibrous

Unable to cleanly separate materials

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17-08-02913-069  29-2		White Paint-Like; White Chalky; Gray Cementitious; Inhomogeneous  <i>Drywall Texture Paint</i>	NAD	100% Non-Fibrous
17-08-02913-070A  30-1	Tile	Dark Gray Vinyl; Homogeneous  <i>Grey 12"x12" Floor Tile</i>	NAD	100% Non-Fibrous
17-08-02913-070B  30-1	Mastic	Yellow Adhesive; Homogeneous  <i>Grey 12"x12" Floor Tile</i>	NAD	2% Cellulose 98% Non-Fibrous
17-08-02913-070C  30-1	Leveling Comp.	Gray Granular; Homogeneous  <i>Grey 12"x12" Floor Tile</i>	NAD	100% Non-Fibrous
17-08-02913-071A  30-2	Tile	Dark Gray Vinyl; Homogeneous  <i>Grey 12"x12" Floor Tile</i>	NAD	100% Non-Fibrous
17-08-02913-071B  30-2	Mastic	Yellow Adhesive; Homogeneous  <i>Grey 12"x12" Floor Tile</i>	NAD	2% Cellulose 98% Non-Fibrous
17-08-02913-071C  30-2	Leveling Comp.	Gray Granular; Homogeneous  <i>Grey 12"x12" Floor Tile</i>	NAD	100% Non-Fibrous
17-08-02913-072A  31-1	Cove Base	Blue Pliable; Homogeneous  <i>Blue 4" Vinyl Cove Baseboard and Mastic</i>	NAD	100% Non-Fibrous

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17-08-02913-072B  31-1	Mastic	Yellow Adhesive; Homogeneous  <i>Blue 4" Vinyl Cove Baseboard and Mastic</i>	NAD	2% Cellulose 98% Non-Fibrous
17-08-02913-073A  31-2	Cove Base	Blue Pliable; Homogeneous  <i>Blue 4" Vinyl Cove Baseboard and Mastic</i>	NAD	100% Non-Fibrous
17-08-02913-073B  31-2	Mastic	Yellow Adhesive; Homogeneous  <i>Blue 4" Vinyl Cove Baseboard and Mastic</i>	NAD	2% Cellulose 98% Non-Fibrous
17-08-02913-074  32-1		White Paint-Like; White Powdery; Inhomogeneous  <i>CMU Wall Coating</i>	NAD	100% Non-Fibrous
17-08-02913-075  32-2		White Paint-Like; White Powdery; Gray Cementitious; Inhomogeneous  <i>CMU Wall Coating</i>	NAD	100% Non-Fibrous
Unable to cleanly separate materials				
17-08-02913-076A  33-1	Joint Comp.	White Chalky; Homogeneous  <i>Drywall and Joint Compound</i>	NAD	2% Cellulose 98% Non-Fibrous
17-08-02913-076B  33-1	Drywall	Brown Fibrous; Gray Chalky; Inhomogeneous  <i>Drywall and Joint Compound</i>	NAD	15% Cellulose 5% Fibrous Glass 80% Non-Fibrous

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Lab Sample Number <i>Client Sample Number</i>	Layer Type	Lab Gross Description <i>Client Sample Description</i>	Asbestos	Other Materials
17-08-02913-077A  33-2	Joint Comp.	White Paint-Like; White Chalky; Inhomogeneous  <i>Drywall and Joint Compound</i>	NAD	2% Cellulose 98% Non-Fibrous
17-08-02913-077B  33-2	Drywall	Brown Fibrous; Gray Chalky; Inhomogeneous  <i>Drywall and Joint Compound</i>	NAD	5% Cellulose 5% Fibrous Glass 90% Non-Fibrous
17-08-02913-078A  34-1	Joint Comp.	White Paint-Like; White Chalky; Inhomogeneous  <i>Drywall, Joint Compound and Texture Paint</i>	NAD	2% Cellulose 98% Non-Fibrous
17-08-02913-078B  34-1	Drywall	Brown Fibrous; Gray Chalky; Inhomogeneous  <i>Drywall, Joint Compound and Texture Paint</i>	NAD	15% Cellulose 10% Fibrous Glass 75% Non-Fibrous

# Environmental Hazards Services, L.L.C

**Client Number:** 200608  
**Project/Test Address:** RCPS - Hidden Valley High School;  
Roanoke, VA

**Report Number:** 17-08-02913

Lab Sample Number <i>Client Sample Number</i>	Layer Type	Lab Gross Description <i>Client Sample Description</i>	Asbestos	Other Materials
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**QC Sample:** 88-M22011-4, 84-M22010-2  
**QC Blank:** SRM 1866 Fiberglass  
**Reporting Limit:** 1% Asbestos  
**Method:** EPA Method 600/R-93/116, EPA Method 600/M4-82-020  
**Analyst:** Michelle Swift, Meredith  
Outlaw

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

79 PM



# Asbestos Chain-of-Custody

Environmental Hazards Services, LLC

27469 Whitepine Rd, Richmond, VA 23237

(800) 347-4010

[www.leadlab.com](http://www.leadlab.com)

Company Name: ECS Mid-Atlantic, LLC Address: 7670 Enon Dr. # 101 City/State/Zip: Roanoke/VA/24109  
 Phone: 540-362-2000 e-Mail: amoon@ecslimited.com Acct No. \_\_\_\_\_  
 Project Name: RCPS - Hidden Valley High School rcurran@ecslimited.com City/State: Roanoke/VA  
 Collected By: Robert Curran PO# 47:3555  
 Positive Stop Analysis:  Yes \*Analyze All Drywall/Joint Compound Date Collected: 8/18/2017

Turn Around Time: If no TAT is specified, samples will be processed as 3-Day TAT

1-Day  2-Day  3-Day  Same Day Analysis: PLM

No.	Client Sample ID	Sample Location
1-1	CMU Wall Coating	Hall @ Room 402
1-2	CMU Wall Coating	Special Education Office
1-3	CMU Wall Coating	Main Gym
1-4	CMU Wall Coating	Room 222
1-5	CMU Wall Coating	Main Street Hall @ 9th Grade Hall
1-6	CMU Wall Coating	Room 107
1-7	CMU Wall Coating	Room 118
2-1	Grey 4" Vinyl Cove Baseboard and Mastic	Laundry Room
2-2	Grey 4" Vinyl Cove Baseboard and Mastic	2nd Floor Stairwell @ Room 215
2-3	Grey 4" Vinyl Cove Baseboard and Mastic	Room 114
3-1	White Speckled 12"x12" Floor Tile and Mastic	Lower Hallway @ Exit 7
3-2	White Speckled 12"x12" Floor Tile and Mastic	Main Street Hallway @ Library Entrance
3-3	White Speckled 12"x12" Floor Tile and Mastic	Lower Hallway @ Exit 5
4-1	Grey Speckled 12"x12" Floor Tile and Mastic	Main Street Hallway @ Room 218
4-2	Grey Speckled 12"x12" Floor Tile and Mastic	Cafeteria @ Dish Line
5-1	Yellow Mottled 12"x12" Floor Tile and Mastic	Lower Hall @ Room 111
6-1	White with Grey Smear 12"x12" Floor Tile	Hall @ Men's Locker Room
6-2	White with Grey Smear 12"x12" Floor Tile	Hall @ Mechanical Room
6-2	Interior Door Caulk	Room 201
7-1	Pinhole/Divot Ceiling Tile	Athletic Director's Office
7-2	Pinhole/Divot Ceiling Tile	Room 218
7-3	Pinhole/Divot Ceiling Tile	Room 119
8-1	Spray-on Fireproofing	Room 131
8-2	Spray-on Fireproofing	Weight Room
8-3	Spray-on Fireproofing	Weight Room
8-4	Spray-on Fireproofing	Weight Room
8-5	Spray-on Fireproofing	Weight Room
9-1	Drywall Wall	Lower Hall Lockers @ Room 122
9-2	Drywall Wall	Lower Hall Lockers @ Room 122
9-3	Drywall and Joint Compound Wall	Main Office
9-4	Drywall and Joint Compound Wall	Main Office
10-1	Grey Mottled 12"x12" Floor Tile and Mastic	Lower Hall @ Exit 7
10-2	Grey Mottled 12"x12" Floor Tile and Mastic	Lower Hall @ Room 134
11-1	Blue Mottled 12"x12" Floor Tile	Main Street Hallway @ Room 210
12-1	Dark Blue Mottled 12"x12" Floor Tile	Main Street Hallway @ Room 211
13-1	Drywall and Joint Compound Ceiling	Custodian Workshop
13-2	Drywall and Joint Compound Ceiling	Custodian Workshop
14-1	Red Mottled 12"x12" Floor Tile and Mastic	Main Street Hallway @ Room 219
15-1	Smooth Ceiling Tile	Kitchen
15-2	Smooth Ceiling Tile	Kitchen
16-1	White HVAC Duct Wrap Mastic	Lower Level Storage Closet
16-2	White HVAC Duct Wrap Mastic	Lower Level Storage Closet
17-1	Grey Metal HVAC Duct Mastic	Lower Level Storage Closet
17-2	Grey Metal HVAC Duct Mastic	Lower Level Storage Closet
18-1	White Fiberglass Pipe Insulation Mastic	Mechanical Room Cold Water Supply #6
18-2	White Fiberglass Pipe Insulation Mastic	Mechanical Room Cold Water Return #5
19-1	Red Fire Stop Caulk	Mechanical Room
19-2	Red Fire Stop Caulk	Mechanical Room
20-1	White Sink Undercoating	Room 128
20-2	White Sink Undercoating	Nurses Office
21-1	Interior Metal Door Caulk	Room 308
21-2	Interior Metal Door Caulk	Room 214
22-1	Interior Brick Column Caulk	First Hall @ T-2-Go

17-08-02913



Due Date:  
08/24/2017  
(Thursday)  
ER

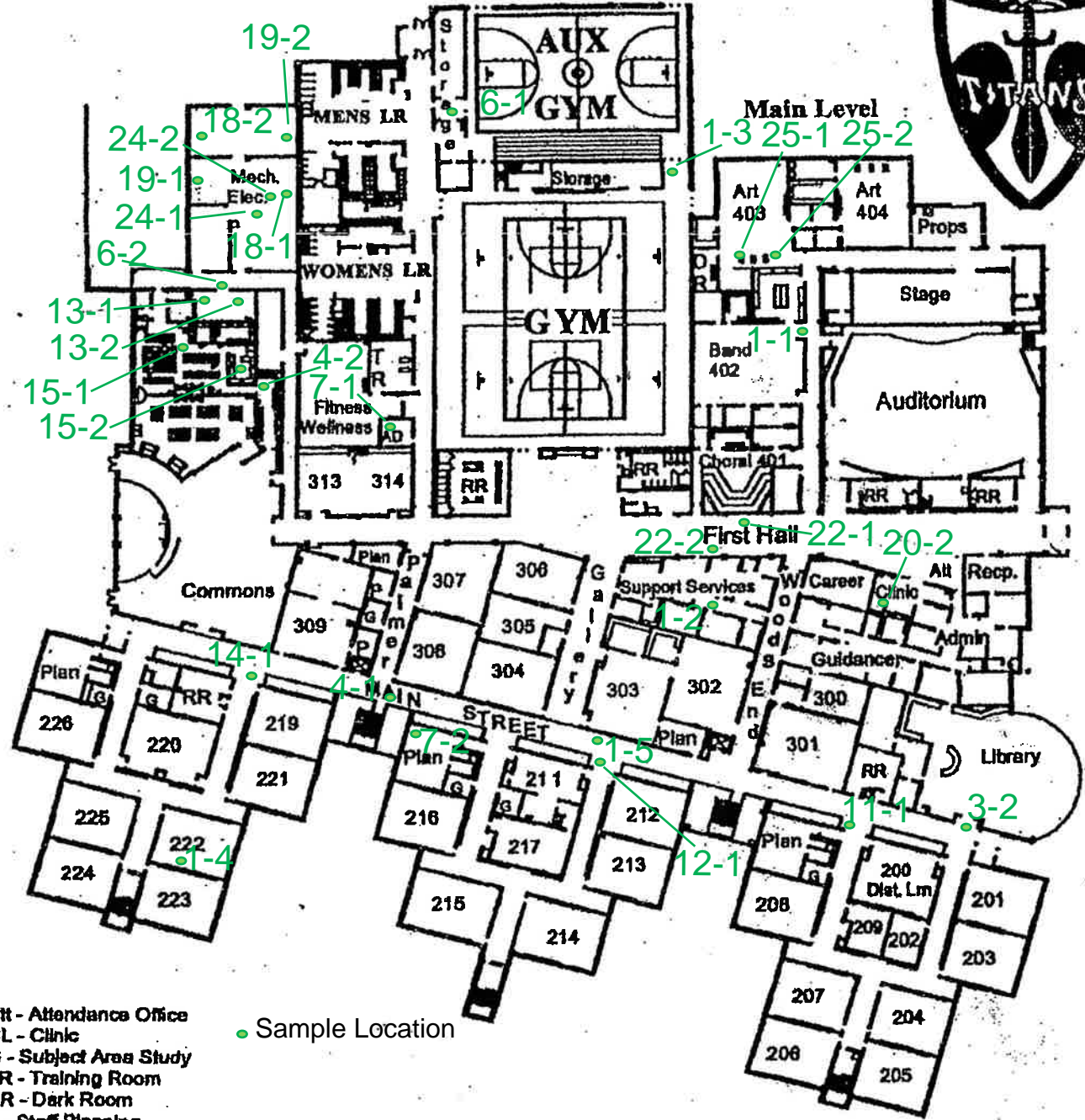
*JMLW 8/21/17 3p*



22-2	Interior Brick Column Caulk	First Hall @ Concession
23-1	Interior Wall Expansion Caulk	First Hall @ Room 401
23-2	Interior Wall Expansion Caulk	First Hall @ Room 401
24-1	Brown Metal HVAC Duct Mastic	Mechanical Room Air Handler Unit 14
24-2	Brown Metal HVAC Duct Mastic	Mechanical Room Air Handler Unit 14
25-1	Grey Sink Undercoating	Room 403
25-2	Grey Sink Undercoating	Room 403
26-1	Drywall and Joint Compound Wall	IT Building Bathroom
26-2	Drywall and Joint Compound Wall	IT Building Bathroom
27-1	Drywall and Joint Compound Ceiling	IT Building Bathroom
27-2	Drywall and Joint Compound Ceiling	IT Building Bathroom
27-3	Drywall and Joint Compound Ceiling	IT Building Bathroom
28-1	Drywall and Joint Compound Wall	Baseball Field House Main Storage Area
28-2	Drywall and Joint Compound Wall	Baseball Field House Main Storage Area
28-3	Drywall and Joint Compound Wall	Baseball Field House Main Storage Area
29-1	Drywall Texture Paint	Baseball Field House Main Storage Area
29-2	Drywall Texture Paint	Baseball Field House Main Storage Area
30-1	Grey 12"x12" Floor Tile	Baseball Field House Locker Area
30-2	Grey 12"x12" Floor Tile	Baseball Field House Locker Area
31-1	Blue 4" Vinyl Cove Baseboard and Mastic	Baseball Field House Locker Area
31-2	Blue 4" Vinyl Cove Baseboard and Mastic	Baseball Field House Locker Area
32-1	CMU Wall Coating	Soccer Field House
32-2	CMU Wall Coating	Soccer Field House
33-1	Drywall and Joint Compound	Soccer Field House
33-2	Drywall and Joint Compound	Soccer Field House
34-1	Drywall, Joint Compound and Texture Paint	Softball Field House
Released By:	Robert Curran, 08-21-17, 11:21 <i>Robert Curran</i>	Please apply special pricing
		Please do not analyze fiberglass or CMU block layers
Received By:	<i>Jwh</i> <i>8/21/17</i>	

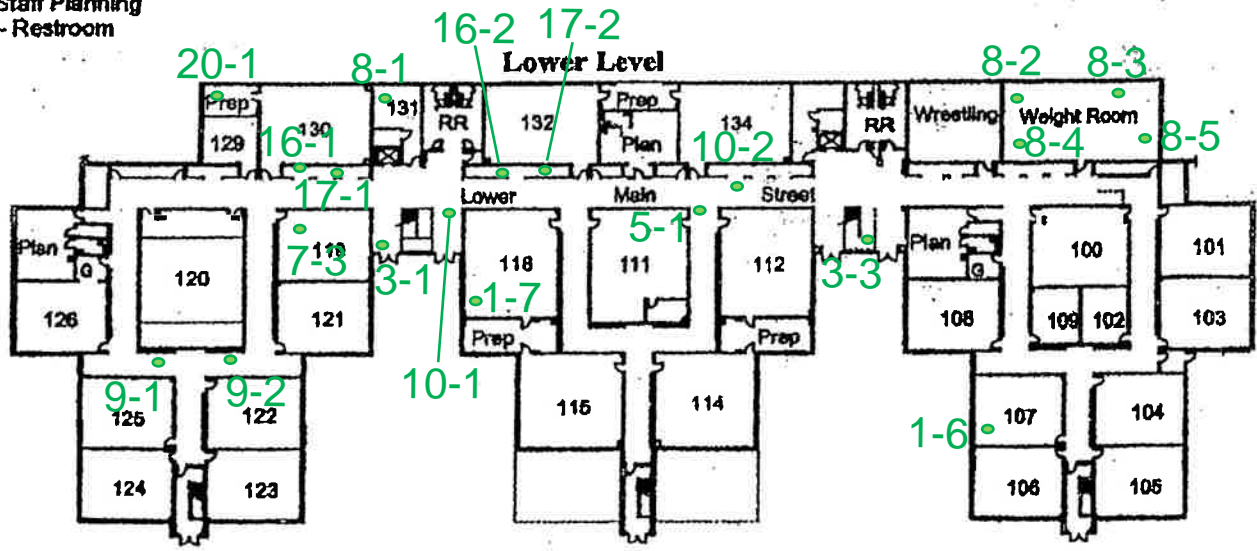
# **Appendix IV: Drawings**

# Hidden Valley High School Floor Plan



- Att - Attendance Office
- CL - Clinic
- G - Subject Area Study
- TR - Training Room
- DR - Dark Room
- P - Staff Planning
- RR - Restroom

• Sample Location



# **Appendix V: Certifications/ Licenses**

# DPOR License Lookup License Number

## 3303003809

### License Details

<b>Name</b>	CURRAN, ROBERT WILLIAM
<b>License Number</b>	3303003809
<b>License Description</b>	Asbestos Inspector License
<b>Rank</b>	Asbestos Inspector
<b>Address</b>	RICHMOND, VA 23220-0000
<b>Initial Certification Date</b>	2012-11-30
<b>Expiration Date</b>	2017-11-30

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