

## ADDENDUM NO. 1

### DEMOLITION PHASE II: DAVIE COUNTY HIGH SCHOOL MOCKSVILLE, NORTH CAROLINA

FULLER ARCHITECTURE COMMISSION NO.: 17-466  
JANUARY 24, 2018

FULLER ARCHITECTURE  
68 COURT SQUARE  
SUITE 200  
MOCKSVILLE, NORTH CAROLINA 27028  
(336) 751-0400

#### NOTICE TO CONTRACTORS:

This addendum shall become part of the Contract Documents for the above project. Each Contractor shall be responsible for notifying his subcontractors of the contents of this Addendum.

Revised or newly issued drawings or other documents contained in this Addendum shall take precedence over any conflicting information in the original drawings. Modified or newly issued specifications contained in this Addendum shall supersede and shall take precedence over any conflicting information in the original specifications.

#### **GENERAL**

1. **Report of Environmental Services:** See the attached final “Report of Environmental Services” dated January 18, 2018 and issued by ACES, LLC.
2. **Permit Fees:** This site is county owned, therefore all required County permit fees have been waived.
3. **Existing Canopy Light Fixtures:** Power for front canopy light fixtures is currently supplied from “K” Building which remains the property of the Davie County School System. It is the contractor’s responsibility to have power to these light fixtures terminated. The contractor shall coordinate termination with the Davie County School System representative.
4. **C-3 Grading and Erosion Control Plan:** Typical notes “Existing Phase I Control Devices to Remain. Contractor shall Continue Maintenance as Required (Typ.)” indicate the contractor is responsible for maintaining the existing function of these devices. However the contractor is not responsible for correction of any improper construction of these devices during Phase I.

(Cont.)

5. **Capped and Terminated Utilities:** Upon completion the contractor shall provide to the county an “As Built” drawing showing the location of all terminations and capped utility lines.
6. **Halon Fire Suppression System in Cafeteria:** The county will have the halon tank in the cafeteria kitchen removed and the control head locked out prior to the start of demolition. The control head and the remainder of the system piping shall be included in the demolition.
7. **C-1 Overall Demolition and Initial Erosion Control Plan – Demolition Note 19:** The intent of this note is that the Contractor is responsible for the removal of these Items.

## **SPECIFICATIONS**

1. **SEC. 02050 Section 1.02 (D):** Replace the reference to Orange County Risk Management Department with “the County”.
2. **SEC. 02050 Section 1.05 (A):** Replace the reference to Building Code of the State of Florida with “the Building Code of the State of North Carolina”.
3. **SEC. 02050 Section 1.05 (C):** Replace the reference to Orange County Risk Management Department with “the County”.
4. **SEC. 00000 (PART 1 – 2.0 PROJECT COORDINATION - D. Submittals – 1. D):** The following: ”The successful Bidder shall provide proposed detailed schedule of work.” is to replace the previous statement in this section.
5. **SEC. 00000 (Part 1 – 5.0 TEMPORARY FACILITIES – B. Water Service 1):** The following: ”The successful Bidder shall coordinate, pay for and work with the Town of Mocksville to establish a hook-up with contractor meter at water hydrant adjacent to front parking lot.” is to replace the previous statement in this section.
6. **SEC. 00000 (Part 1 – 5.0 Temporary Facilities – C. Electrical Service – 1):** The following: ”The successful Bidder shall provide a source of electricity at the work site.” is to replace the previous statement in this section.

END OF ADDENDUM NO. 1



# **REPORT OF ENVIRONMENTAL SERVICES**

**PROPOSED DEMOLITION OF STRUCTURES  
“B” BUILDING, CAFETERIA BUILDING, COVERED WALKWAYS,  
ATHLETIC FIELD BUILDINGS  
FORMER DAVIE HIGH SCHOOL CAMPUS  
1200 S. SALISBURY STREET (US HWY 601)  
MOCKSVILLE, NORTH CAROLINA**

**PREPARED FOR:**

**COUNTY OF DAVIE  
298 EAST DEPOT STREET  
MOCKSVILLE, NORTH CAROLINA 27028**

**PREPARED BY:**

**ALLIED CONSULTING & ENVIRONMENTAL SERVICES, LLC  
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PHONE (704) 600-6255  
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**ISSUE DATE: JANUARY 18, 2018**

**ACES PROJECT: 2017-11-118**



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**ISSUE DATE: JANUARY 18, 2018**

**ACES PROJECT: 2017-11-118**

PREPARED BY:

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## **REPORT OF ENVIRONMENTAL SERVICES**

### **PROPOSED DEMOLITION OF STRUCTURES**

**“B” BUILDING, CAFETERIA BUILDING, COVERED WALKWAYS, ATHLETIC FIELD BUILDINGS**

**FORMER DAVIE HIGH SCHOOL CAMPUS**

**1200 S. SALISBURY STREET (US HWY 601)**

**MOCKSVILLE, NORTH CAROLINA**

### **1.0 EXECUTIVE SUMMARY**

Allied Consulting and Environmental Services, LLC (ACES) has completed the requested environmental services for various structures on the former Davie County High School (DCHS) campus located at 1200 S. Salisbury Street (US Highway 601) in Mocksville, North Carolina. ACES personnel performed an asbestos survey of suspect asbestos containing materials (ACM), a limited lead-based paint survey, a paint survey of painted masonry surfaces, sampling of caulk for poly-chlorinated biphenyls, and estimating the number of fluorescent light bulbs for universal waste disposal between November 9 and December 5, 2017. The general scope of services provided by ACES was presented in our proposal dated October 2, 2017 and this work was authorized by the completion of our Agreement for Services by Mr. Andrew Meadwell of the County of Davie on November 2, 2017.

Sixty-one (61) samples of suspect ACM were obtained and submitted to a NVLAP (National Voluntary Laboratory Accredited Program) asbestos laboratory for analysis. Due to some materials consisting of more than one layer and the use of “positive stop”, a total of seventy-four (74) samples were analyzed by the laboratory. In addition, laboratory analysis previously obtained for suspect ACM for other structures (athletic field buildings) located on the former DCHS campus was utilized for this report after obtaining permission from Mr. Michael Spillman, Director of Maintenance for Davie County Schools. Asbestos containing materials were identified for the structures and included floor tile and mastic in “B” building, textured lay-in ceiling tile in “B” building, built-up roofing materials on “B” building, built-up roofing material on the covered walkway adjacent to “B” building, window glazing on two windows of the Cafeteria building, and wrap on piping insulation in the steam tunnel.

Samples included the following suspect materials: roofing materials, flooring materials and associated mastic, plaster wall sections, plaster ceiling sections, ceiling tile material and associated mastic, lay-in ceiling tile, caulk, window glazing, and insulation material. Laboratory analysis of the suspect ACM did identify the presence of asbestos in fifteen (15) of the samples analyzed at a concentration greater than one (1) percent and therefore the materials sampled are classified as asbestos containing materials (ACM). The ACM included roofing materials, floor tile and associated mastic, textured lay-in ceiling tile, window glazing, and thermal system insulation (TSI).

Services with regard to painted surfaces included a limited XRF survey of representative exterior and interior surfaces and the collection of paint samples of painted masonry surfaces



for laboratory analysis. A total of two hundred and sixteen (216) XRF readings for lead-based paint were obtained from various exterior and interior painted surfaces. The XRF survey was performed on November 16 and 17, 2017. Test locations included various painted surfaces including walls, doors, door frames, window frames, ceilings, gutters, columns, beams, siding, and decking. Eleven representative paint samples were collected on November 8, 2017 from the painted masonry services from the two structures for laboratory analysis. Barium was identified at concentrations above the regulatory limit for total RCRA (Resource Conservation and Recovery Act) metals at five of the paint sample locations. Based upon previous conversations with a representative of the North Carolina Department of Environmental Protection (NCDEP), Division of Waste Management (DWM), an additional paint sample was obtained for laboratory analysis by the TCLP (Toxicity Characteristic Leachate Procedure) method for RCRA metals. The TCLP analysis did not identify concentrations above the regulatory limits and, therefore, the paint is not classified as a hazardous waste.

Three caulk samples were collected for laboratory analysis for polychlorinated poly-chlorinated biphenyls (PCBs). No PCBs were present in the caulk samples above the method detection limit.

Based upon our understanding of the proposed project specifications, the contractor that will be performing the demolition and disposal of building materials will be expected to dispose of materials that may be classified as “universal waste” in accordance with applicable state and federal regulations. Based upon our knowledge of the project site, the item that will require disposal as a “universal waste” will be the fluorescent light bulbs utilized in the cafeteria and “B” buildings. Based upon our site survey, ACES estimates that seven hundred and thirty-six (736) light bulbs will need to be removed from the existing fixtures and properly disposed of.

## 2.0 INTRODUCTION

In accordance with our proposal dated October 2, 2017, ACES proposed to provide the following services.

- The collection of suspect ACM samples from interior and exterior of the structures for laboratory analysis by a North Carolina accredited asbestos building inspector.
- Use of a NAVLAP accredited laboratory to perform asbestos analysis using Polarized Light Microscopy (PLM) methods.
- The performance of a limited lead-based paint (LBP) survey of the interior painted wall surfaces and exterior painted metal surfaces that may be impacted by the proposed demolition of the buildings/structures by a North Carolina accredited lead paint risk assessor. The limited LBP survey would not be a comprehensive surface by surface testing of the paint (*e.g.* a HUD level survey) but would consist of testing representative painted surfaces for the presence of LBP.
- Obtaining representative paint samples from the buildings to be demolished for laboratory analysis by a North Carolina accredited lead paint risk assessor to comply with the “Use of Painted Materials for Beneficial Fill or Disposal at Land Clearing & Inert Debris Landfills” guidelines prepared by the North Carolina Division of Waste



Management – Solid Waste Section (NCDWM-SWS). The collected samples would be submitted to a North Carolina accredited laboratory for analysis in accordance with the regulations.

- Initially, paint samples will be submitted to an accredited laboratory for analysis by EPA SW 846, Method 6010B and Method 3050B (Phase 1). For samples that exceed the concentrations presented in the appropriate tables, additional samples will be collected and will be analyzed by the TCLP method (Phase 2) as required by the guidelines.
- ACES personnel will collect samples of caulk for analytical testing for PCBs and perform a limited survey of the lighting fixtures for fluorescent bulbs that may contain mercury.
- Prepare a report documenting the sampling of suspect asbestos containing materials and the results of the laboratory analysis along with recommendations for additional services, as needed. The results of the limited lead paint survey will also be documented, including the results of the survey, and present a summary of our findings along with recommendations for additional services, if needed. Results of the paint sampling and laboratory analysis will be included in the report documenting the procedures utilized along with recommendations for additional services, as needed.
- As required, Asbestos Abatement Design Specifications will be prepared that can be utilized by a qualified asbestos abatement contractor and/or other qualified demolition contractor.

This work was authorized by the completion of our Agreement for Services by Mr. Andrew Meadwell of the County of Davie on November 2, 2017.

### **3.0 SUMMARY OF FIELD SERVICES**

#### **3.1 Project Scope**

The project site buildings/structures scheduled for demolition are on the campus of the former Davie High School which is located at 1200 South Salisbury Street in Mocksville, North Carolina (Figure 1 in Appendix 1) and the proposed demolition will include the former “B” Building classroom, the Cafeteria Building, covered walkway adjacent to the two buildings, and six building located on the former athletic field area. In general, the cafeteria and classroom buildings are single-story, masonry-walled structures with a brick veneer exterior. The cafeteria building and the covered walkway located between the cafeteria and the classroom buildings currently utilize a metal roof system, however, the original roof of the cafeteria building and also the classroom building and the covered walkway adjacent to the classroom building consisted of built-up roofs which are still present. Both buildings utilize a concrete slab-on-grade floor system. The exact date of original construction for the buildings/structures was not provided, however, the earliest construction is estimated to be in the 1950s and the latest construction date was reportedly in the 1980’s.





### **3.2 Asbestos**

Based upon our site visit, the following materials were initially identified as suspect asbestos containing materials (ACM) for the structures: roofing materials, window glazing (cafeteria building), flooring materials and associated mastics, drywall and spackling (joint compound), ceiling materials, and insulation materials. Once the suspect ACM samples had been obtained, they were submitted in person to an accredited laboratory (EMSL) in Charlotte, North Carolina for analysis.

A total of sixty-one (61) suspect asbestos containing materials were collected by a NC Licensed Asbestos Inspector (DeWitt Whitten - #10706) and submitted to a NVLAP Accredited Asbestos Laboratory (EMSL in Charlotte, NC). Samples were analyzed using Polarized Light Microscopy (PLM) by EPA Method 600/R-93/116. For each homogeneous area identified, the laboratory was requested to utilize a “positive stop” protocol during the analysis. A “positive stop” protocol is defined as using the first positive sample as indicative of the presence of asbestos for that particular homogeneous area. A total of seventy-four (74) samples were analyzed by the laboratory by the PLM method due to some materials consisting of more than one layer and the use of “positive stop”.

### **3.3 Lead-based Paint**

A North Carolina Lead-based Paint Risk Assessor (Mr. DeWitt Whitten, NC Risk Assessor #120118) performed a limited lead-based paint (LBP) survey of representative interior and exterior painted masonry and metal surfaces which are to be demolished. The testing was conducted using a INNOV-X Portable X-ray Fluorescence (XRF) Analyzer (Serial No. 11916) to the screen the painted surface coatings of the representative building components for the presence of lead. A total of two hundred and sixteen (216) readings were obtained. The survey was performed on November 16 and 17, 2017. Test locations included various painted surfaces including walls, door frames, columns, beams, and decking. In addition, eight (8) readings were obtained for standardization and calibration purposes.

### **3.4 Painted Masonry Materials**

A North Carolina Lead-based Paint Risk Assessor (Mr. DeWitt Whitten, NC Risk Assessor #120118) obtained representative paint samples of the painted masonry surfaces based upon the sampling guidelines in general accordance of NCDWM-SWS “Use of Painted Materials for Beneficial Fill or Disposal at Land Clearing & Inert Debris Landfills” guidelines. Based upon observations by ACES personnel, four samples of white paint, two samples of blue paint, two samples of green paint, one sample of gray paint, one sample of tan paint, and one sample of yellow paint were obtained from the two buildings for the initial phase of laboratory analysis. The initial paint sampling was performed on November 8, 2017. The samples were placed in individual plastic bags and transmitted in person to an accredited laboratory (Prism Laboratories in Charlotte, North Carolina) for laboratory analysis in accordance with the NCDWM-SWS guidelines. The eleven samples were analyzed for eight metals commonly referred to as RCRA metals including arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver.



### 3.5 Caulk and Other PCB Containing Materials

During our site visit, ACES observed the use of caulk at various locations in the buildings being considered for demolition. The majority of the caulk is present around the existing doors and windows of the buildings. Based upon previous discussions with Mr. Michael Spillman, Director of Maintenance for Davie County Schools, it is our understanding that the existing doors and windows were replaced in 2000 and the caulk utilized by the contractor did not contain PCBs. In addition to the caulk, Mr. Spillman indicated that, to best of his knowledge, all of ballasts utilized in the fluorescent light fixtures are non-PCB containing ballasts. ACES personnel obtained three samples of caulk at other locations for laboratory analysis for PCBs. The samples were delivered in person to an accredited North Carolina laboratory (Prism Laboratories in Charlotte, NC).

### 3.6 Mercury Containing Materials

Based upon the information obtained to date, ACES personnel observed the use of fluorescent light fixtures located in the buildings and determined the approximate number of fluorescent bulbs present in the fixtures.

## 4.0 FINDINGS AND RECOMMENDATIONS

### 4.1 Non-Asbestos Containing Materials - Findings

For this project, a visual and invasive survey and sampling for suspect asbestos containing materials (ACM) was conducted for the structures. Sixty-one (61) samples were collected by a NC Licensed Asbestos Inspector (DeWitt Whitten - #10706) and submitted to a NVLAP Accredited Asbestos Laboratory (EMSL in Charlotte, NC). Samples were analyzed using Polarized Light Microscopy (PLM) by EPA Method 600/R-93/116. For each homogeneous area identified, the laboratory was requested to utilize a “positive stop” protocol during the analysis. A “positive stop” protocol is defined as using the first positive sample as indicative of the presence of asbestos for that particular homogeneous area. A total of seventy-four (74) samples were analyzed by the laboratory by the PLM method due to some materials consisting of more than one layer and the use of “positive stop”. Please refer to the Sample Location Plans (Figure Nos. 3 - 11) and the Chain of Custody sheet in Appendices 1 and 2, respectively, for the approximate sample locations and the specific materials sampled.

### 4.2 Asbestos Containing Materials - Findings

Asbestos (> 1%) was detected by PLM analysis in fifteen (15) of the seventy-four (74) samples analyzed by EMSL. Twenty-one (21) samples were not analyzed due to the use of “Positive Stop” and are assumed to contain asbestos. A summary of the sample numbers, sample descriptions, and results of the laboratory analysis for the known or assumed ACM is presented in Table 1.

TABLE 1 – SAMPLE SUMMARY OF LABORATORY ANALYSIS			
SAMPLE ID	BUILDING	SAMPLE DESCRIPTION	RESULTS OF LAB ANALYSIS
WG-1	Cafeteria	Window glazing	2% chrysotile asbestos



**TABLE 1 CONTINUED – SAMPLE SUMMARY OF LABORATORY ANALYSIS**

<b>SAMPLE ID</b>	<b>BUILDING</b>	<b>SAMPLE DESCRIPTION</b>	<b>RESULTS OF LAB ANALYSIS</b>
WG-2	Cafeteria	Window glazing	“Positive Stop” – asbestos assumed
SLPW-1	Cafeteria	Pipe wrap	2% chrysotile asbestos
SLPW-2	Cafeteria	Pipe wrap	“Positive Stop” – asbestos assumed
SLPW-3	Cafeteria	Pipe wrap	“Positive Stop” – asbestos assumed
FT-5	“B” Building	Floor tile	4% chrysotile asbestos
FT-5	“B” Building	Mastic	5% chrysotile asbestos
FT-6	“B” Building	Floor tile	“Positive Stop” – asbestos assumed
FT-6	“B” Building	Mastic	“Positive Stop” – asbestos assumed
FT-7	“B” Building	Floor tile	4% chrysotile asbestos
FT-7	“B” Building	Mastic	5% chrysotile asbestos
FT-8	“B” Building	Floor tile	“Positive Stop” – asbestos assumed
FT-8	“B” Building	Mastic	“Positive Stop” – asbestos assumed
FT-9	“B” Building	Floor tile	“Positive Stop” – asbestos assumed
FT-9	“B” Building	Mastic	“Positive Stop” – asbestos assumed
FT-10	“B” Building	Floor tile	3% chrysotile asbestos
FT-10	“B” Building	Mastic	4% chrysotile asbestos
FT-11	“B” Building	Floor tile	“Positive Stop” – asbestos assumed
FT-11	“B” Building	Mastic	“Positive Stop” – asbestos assumed
FT-12	“B” Building	Floor tile	3% chrysotile asbestos
FT-12	“B” Building	Mastic	5% chrysotile asbestos
FT-13	“B” Building	Floor tile	“Positive Stop” – asbestos assumed
FT-13	“B” Building	Mastic	“Positive Stop” – asbestos assumed
CT-7	“B” Building	2’X2’ Lay-in textured ceiling tile	3% chrysotile asbestos
CT-8	“B” Building	2’X2’ Lay-in textured ceiling tile	“Positive Stop” – asbestos assumed
CT-11	“B” Building	2’X2’ Lay-in textured ceiling tile	3% chrysotile asbestos
CT-12	“B” Building	2’X2’ Lay-in textured ceiling tile	“Positive Stop” – asbestos assumed
RS-1	“B” Building	Silver paint	3% chrysotile asbestos
RS-1	“B” Building	Built-up roofing	30% chrysotile asbestos
RS-2	“B” Building	Silver paint	“Positive Stop” – asbestos assumed
RS-2	“B” Building	Built-up roofing	“Positive Stop” – asbestos assumed
RS-3	“B” Building	Silver paint	“Positive Stop” – asbestos assumed
RS-3	“B” Building	Built-up roofing	“Positive Stop” – asbestos assumed
RS-4	“B” Building	Built-up roofing	40% chrysotile asbestos
RS-5	“B” Building	Built-up roofing	“Positive Stop” – asbestos assumed
RS-6	“B” Building	Built-up roofing	“Positive Stop” – asbestos assumed



### 4.3 Lead-based Paint - Findings

The results of the limited lead-based survey indicated that lead-based paint (i.e., paint with a concentration of greater than or equal to one milligram per square centimeter ( $\geq 1.0 \text{ mg/cm}^2$ )) was not present at one hundred and ninety-five (195) of the two hundred and sixteen (216) locations tested. Lead paint was identified at four (4) exterior locations as shown in Table 2. The condition of the painted surfaces was observed to vary from an intact to non-intact condition at the locations surveyed. Please refer to the Sample Location Plans (Figure Nos. 12 & 13) and the XRF sheets in Appendices 1 and 3, respectively, for the approximate test locations and the specific materials sampled.

XRF #	BUILDING	INTERIOR/EXTERIOR	SUBSTRATE	COMPONENT	COLOR	XRF RDG (mg/cm <sup>2</sup> )
85	Cafeteria	Exterior	Metal	Column	Brown	3.07
90	Cafeteria	Exterior	Metal	Beam	Orange	> 5.0
92	Cafeteria	Exterior	Metal	Beam	Brown	> 5.0
94	Cafeteria	Exterior	Metal	Beam	Brown	4.78

### 4.4 Painted Masonry Materials - Findings

The results of the laboratory analysis identified that three of the metals (barium, lead, & mercury) were identified in five of the samples as shown in Table 3.

SAMPLE ID	BLDG	LOCATION	COMPONENT	BARIUM	LEAD	MERCURY
PS-1	"B"	Rm B-3	Wall	3600	BRL	0.30
PS-2	"B"	Rm B-3	Wall	4700	BRL	0.27
PS-3	"B"	Rm B-3	Wall	1300	BRL	0.21
PS-4	"B"	Rm B-4	Wall	3200	220	0.12
PS-5	"B"	AP Office	Wall	3600	BRL	0.43
<b>CURRENT REGULATORY CONCENTRATIONS</b>			<i>Residential</i>	3,000	400	1.9
			<i>GW SOIL GOAL</i>	580	270	1.0

NOTES: 1) All units in milligrams per liter (mg/L)

2) Numbers in RED exceed the total RCRA Metals Residential allowable concentration

3) Numbers in BLUE exceed the total RCRA Metals Groundwater allowable concentration

Upon receipt and review of the laboratory results for total metals, it appeared that the concentration of at least one of the individual total metals (barium) exceeded the regulation concentrations for five (5) of the samples. Based upon our review of the laboratory results and a previous conversation with Mr. Ervin Lane of the NCDWM-SWS in Raleigh, North Carolina, ACES obtained an additional sample for laboratory analysis for Phase 2 testing. The additional paint sample was collected on November 21, 2017 and submitted to Prism Laboratories on the same date. The laboratory was requested to analyze the additional sample by the TCLP method for the eight RCRA metals. The results of the TCLP analysis indicated that the concentrations of



the eight metals were below the reporting limit and, therefore, none of the metal concentrations exceeded the regulatory concentrations. The approximate sample locations are shown on Figures 12 and 13 in Appendix 1.

#### **4.5 Caulk and Other PCB Containing Materials - Findings**

Three samples of caulk were obtained for laboratory analysis for PCBs. A review of the laboratory analysis noted that no PCBs were identified in the samples analyzed. The approximate sample locations are shown on Figure 12 in Appendix 1. No other suspect PCB containing materials were identified.

#### **4.6 Mercury Containing Materials - Findings**

ACES personnel surveyed the interior of the buildings to be demolished for fluorescent light fixtures during our site visit on November 21, 2017. Based upon our observations, there are approximately seven hundred and thirty-six (736) fluorescent bulbs located in the buildings to be demolished. No other suspect mercury containing materials were identified.

#### **4.7 Recommendations - Asbestos Containing Materials**

As shown in Table 1, seven materials are classified as asbestos containing material (ACM). The textured lay-in ceiling tile is classified as friable ACM while the remaining materials are classified as non-friable ACM. However, for the purposes of demolition, the identified ACM should be considered a Regulated Asbestos Containing Material (RACM). In addition, it is possible that unidentified ACM be present in non-accessible areas of the buildings, i.e. behind walls or in underlying steam tunnels that were not accessible during our recent survey.

It is recommended that the RACM be abated prior to the demolition of the structure. The RACM should be abated by accredited personnel in accordance with applicable local, state, and federal regulations and guidelines. Disposal of the removed ACM should be in accordance with applicable local, state, and federal regulations and/or guidelines.

An Asbestos Abatement Design will be required for proposed abatement activities and will be prepared and submitted as a separate document. In addition, the abatement of the ACM and demolition of the buildings must be permitted with the North Carolina Department of Environmental Quality (NCDEQ) Health Hazards Control Unit (HHCU) at least ten working days prior to the start of abatement and/or demolition.

#### **4.8 Recommendations – Lead-based Paint**

As shown in Table 2, lead-based paint was identified on the metal framing building components of the shelter located on the south end of the Cafeteria Building. The building components with lead-based paint should be removed in such a manner that a lead dust is not created. Once removed, the building components with lead-based paint should be disposed of in accordance with applicable local, state, and federal regulations.



#### **4.9 Recommendations – Painted Masonry Materials**

As shown in Table 3, the painted masonry walls in “B” Building have concentrations of barium that will require the materials to be disposed of in an approved construction and debris (C&D) landfill or an approved municipal solid waste (MSW) landfill. The remaining non-painted materials do require special disposal methods unless otherwise directed by the building owner.

#### **4.10 Recommendations – Caulk and Other PCB Containing Materials**

PCBs were not identified in the caulk. Therefore, no specialized handling or disposal of the caulk at the site is required.

#### **4.11 Recommendations – Mercury Containing Materials**

As discussed in Section 4.6, ACES estimates that approximately seven hundred and thirty-six (736) fluorescent bulbs are present in the two buildings to be demolished. It is assumed that the fluorescent bulbs contain mercury and should be disposed in accordance with local, state, and federal guidelines and regulations.

### **5.0 LIMITATIONS**

This report has been prepared for the exclusive use of the County of Davie and their agents for specific application to the proposed demolition of the structures located 1200 South Salisbury Street in Mocksville, North Carolina. This report has been prepared in accordance with generally accepted environmental practices. No other warranty, expressed or implied, is made. Our observations are based upon conditions readily visible at the time of our site visit. We have not verified the completeness or accuracy of the information provided by others.

During the site visit, accessible areas were visually surveyed for the presence of suspect asbestos containing materials (ACM). Inaccessible areas, such as above ceilings or behind walls may have not been surveyed; therefore, all suspect ACM may not have been identified. Areas inspected were those designated by the scope of services. As with any similar survey of this nature, actual conditions exist only at the precise locations from which bulk 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.

Under the scope of services, ACES assumes no responsibility regarding response actions (e.g. O&M Plan, encapsulation, abatement, removal, worker notification, etc.) initiated as a result of these findings. ACES assumes no liability for the duties and responsibilities of the Building Owner with respect to compliance with these regulations. Compliance with regulations and response actions are the sole responsibility of the Building Owner and should be conducted in accordance with local, state and/or federal requirements, and should be performed by appropriately qualified and licensed personnel, as warranted.





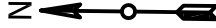
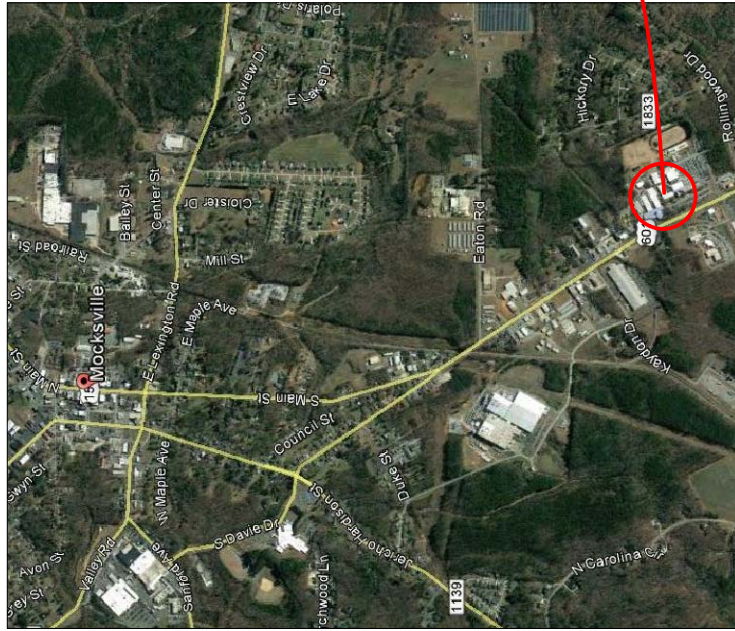
**APPENDIX 1**  
**FIGURES**



**LEGEND**

✕ Existing Buildings/Structures Previously Demolished or No Longer Present


□ Existing Buildings/Structures to be Demolished



ACES PROJ. NO.: 2017 - 11 - 118

DATE: January 11, 2018

**LOCATION PLAN**

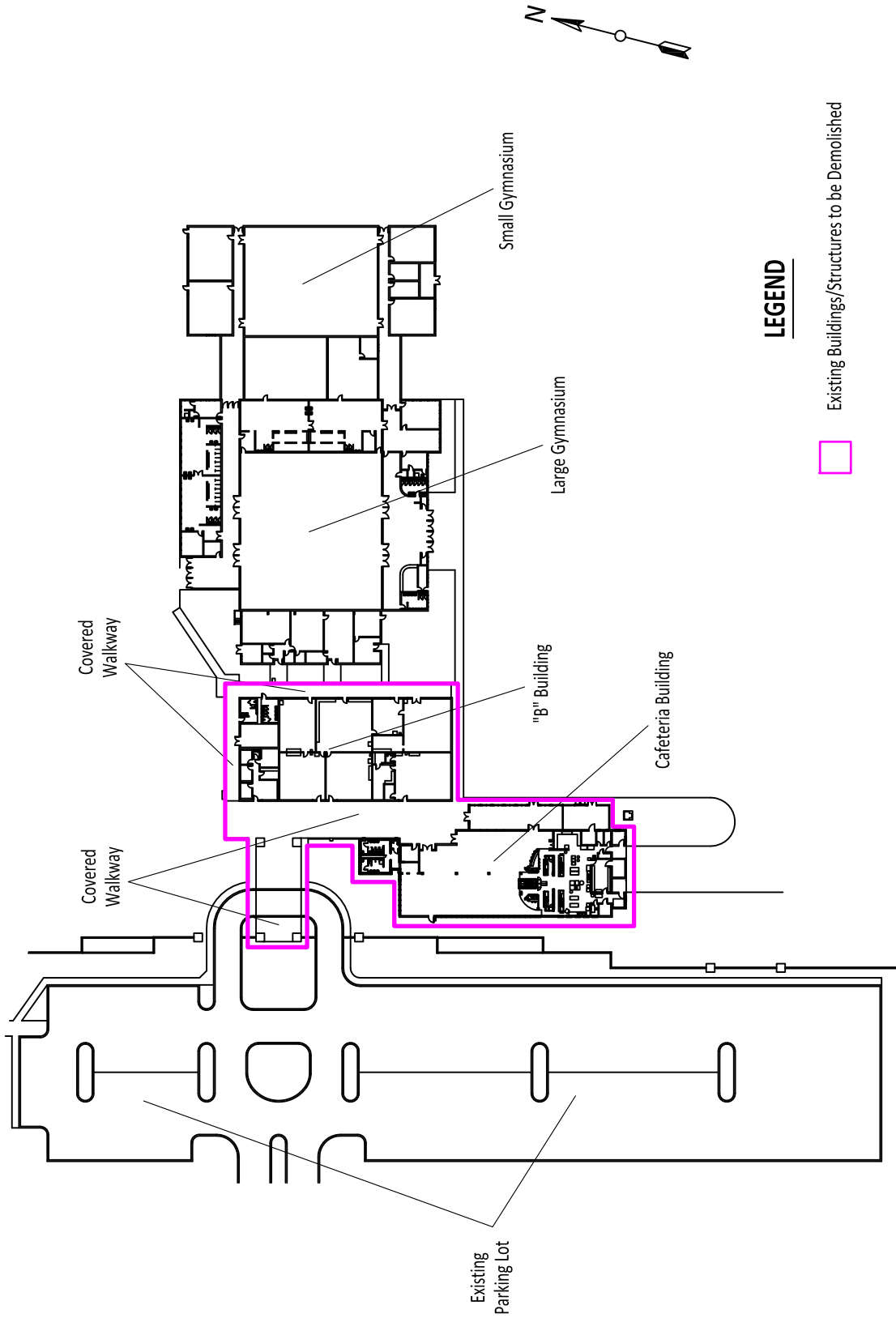


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**ENVIRONMENTAL SERVICES REPORT**  
**B BLDG, CAFETERIA BLDG, & COVERED WALKWAYS**  
**FORMER DAVIE COUNTY H. S. - 1200 SALISBURY ROAD**  
**MOCKSVILLE, NORTH CAROLINA**

FIGURE

**1**



NOT TO SCALE

**LEGEND**

□ Existing Buildings/Structures to be Demolished

FIGURE

**2**

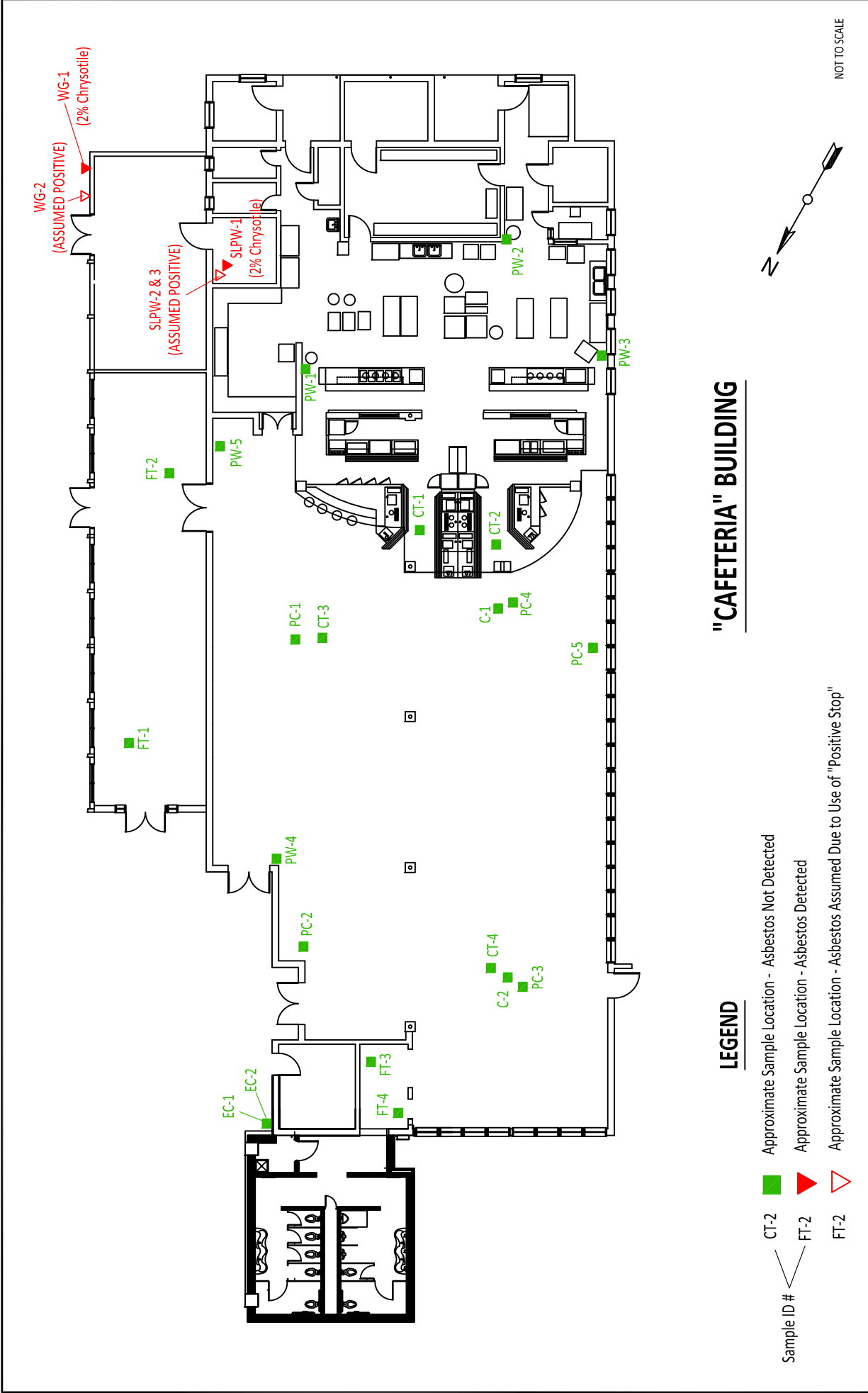
**ENVIRONMENTAL SERVICES REPORT  
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ACES PROJ. NO.: 2017 - 11 - 118  
 DATE: January 11, 2018


**LOCATION PLAN**

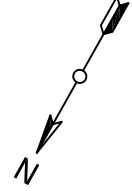
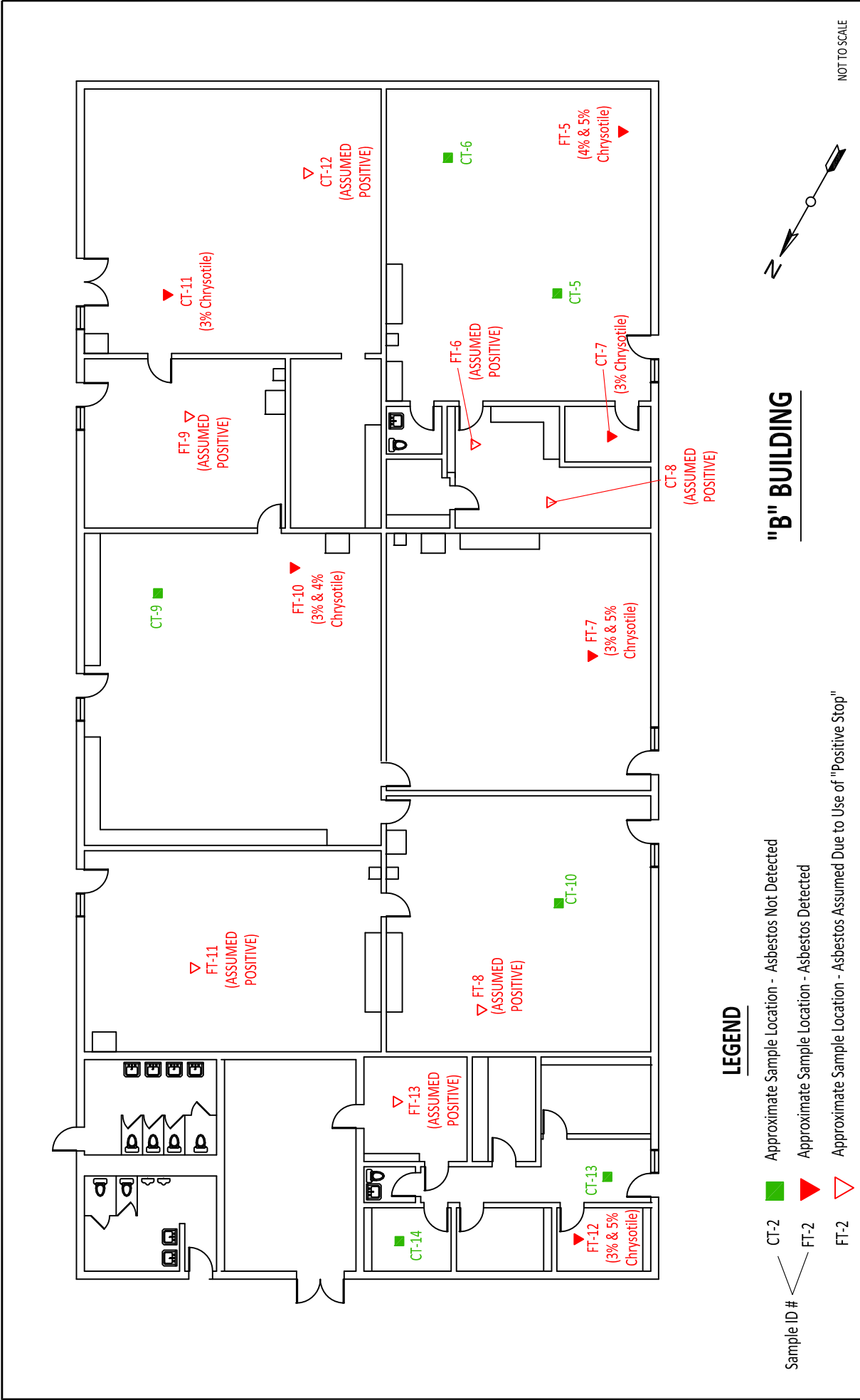


**"CAFETERIA" BUILDING**

**LEGEND**

- Sample ID #  CT-2 Approximate Sample Location - Asbestos Not Detected
- FT-2 Approximate Sample Location - Asbestos Detected
- FT-2 Approximate Sample Location - Asbestos Assumed Due to Use of "Positive Stop"

<p>ACES PROJ. NO.: 2017 - 11 - 118          DATE: January 11, 2018</p>	 <p><b>ALLIED CONSULTING &amp;          ENVIRONMENTAL SERVICES</b>          SHELBY, NORTH CAROLINA          P.O. BOX 2426 (28151-2426) 704-600-6255          409 E. MARION ST. (28150) FAX 704-482-5596</p>	<p><b>ENVIRONMENTAL SERVICES REPORT</b>  <b>B BLDG, CAFETERIA BLDG, &amp; COVERED WALKWAYS</b>  <b>FORMER DAVIE COUNTY H. S. - 1200 SALISBURY ROAD</b>  <b>MOCKSVILLE, NORTH CAROLINA</b></p>
<p><b>SAMPLE LOCATION</b></p>		<p>FIGURE <span style="font-size: 2em; font-weight: bold;">3</span></p>
<p><b>PLAN</b></p>		



**"B" BUILDING**

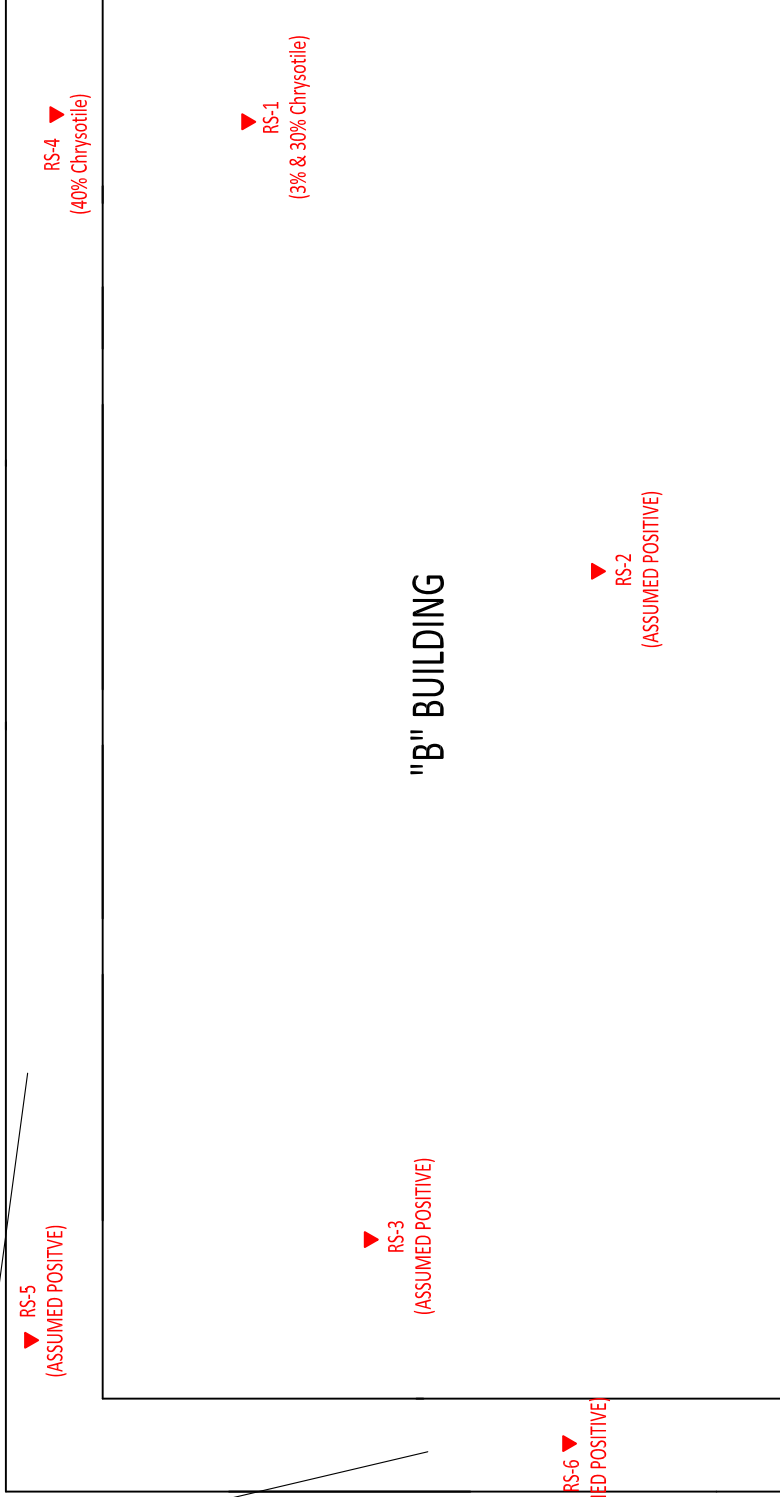
NOT TO SCALE

**LEGEND**

- Sample ID # CT-2 Approximate Sample Location - Asbestos Not Detected
- FT-2 Approximate Sample Location - Asbestos Detected
- FT-2 Approximate Sample Location - Asbestos Assumed Due to Use of "Positive Stop"

<p>ACES PROJ. NO.: 2017 - 11 - 118          DATE: January 11, 2018</p>	<p><b>SAMPLE LOCATION PLAN</b></p>
<p><b>ALLIED CONSULTING &amp; ENVIRONMENTAL SERVICES</b>          SHELBY, NORTH CAROLINA          P.O. BOX 2426 (28151-2426) 704-600-6255          409 E. MARION ST. (28150) FAX 704-482-5596</p>	<p><b>ENVIRONMENTAL SERVICES REPORT</b>  <b>B BLDG, CAFETERIA BLDG, &amp; COVERED WALKWAYS</b>  <b>FORMER DAVIE COUNTY H. S. - 1200 SALISBURY ROAD</b>  <b>MOCKSVILLE, NORTH CAROLINA</b></p>
<p>FIGURE <b>4</b></p>	

COVERED WALKWAY



"B" BUILDING

RS-4 ▼  
(40% Chrysotile)

RS-1 ▼  
(3% & 30% Chrysotile)

RS-2 ▼  
(ASSUMED POSITIVE)

RS-3 ▼  
(ASSUMED POSITIVE)


RS-6 ▼  
(ASSUMED POSITIVE)

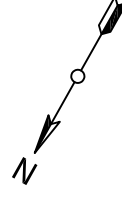
RS-5 ▼  
(ASSUMED POSITIVE)

**LEGEND**

CT-2  Approximate Sample Location - Asbestos Not Detected

FT-2  Approximate Sample Location - Asbestos Detected

FT-2  Approximate Sample Location - Asbestos Assumed Due to Use of "Positive Stop"



**"B" BUILDING - ROOF LEVEL**

NOT TO SCALE

ACES PROJ. NO.: 2017 - 11 - 118  
DATE: January 11, 2018

**SAMPLE LOCATION  
PLAN**

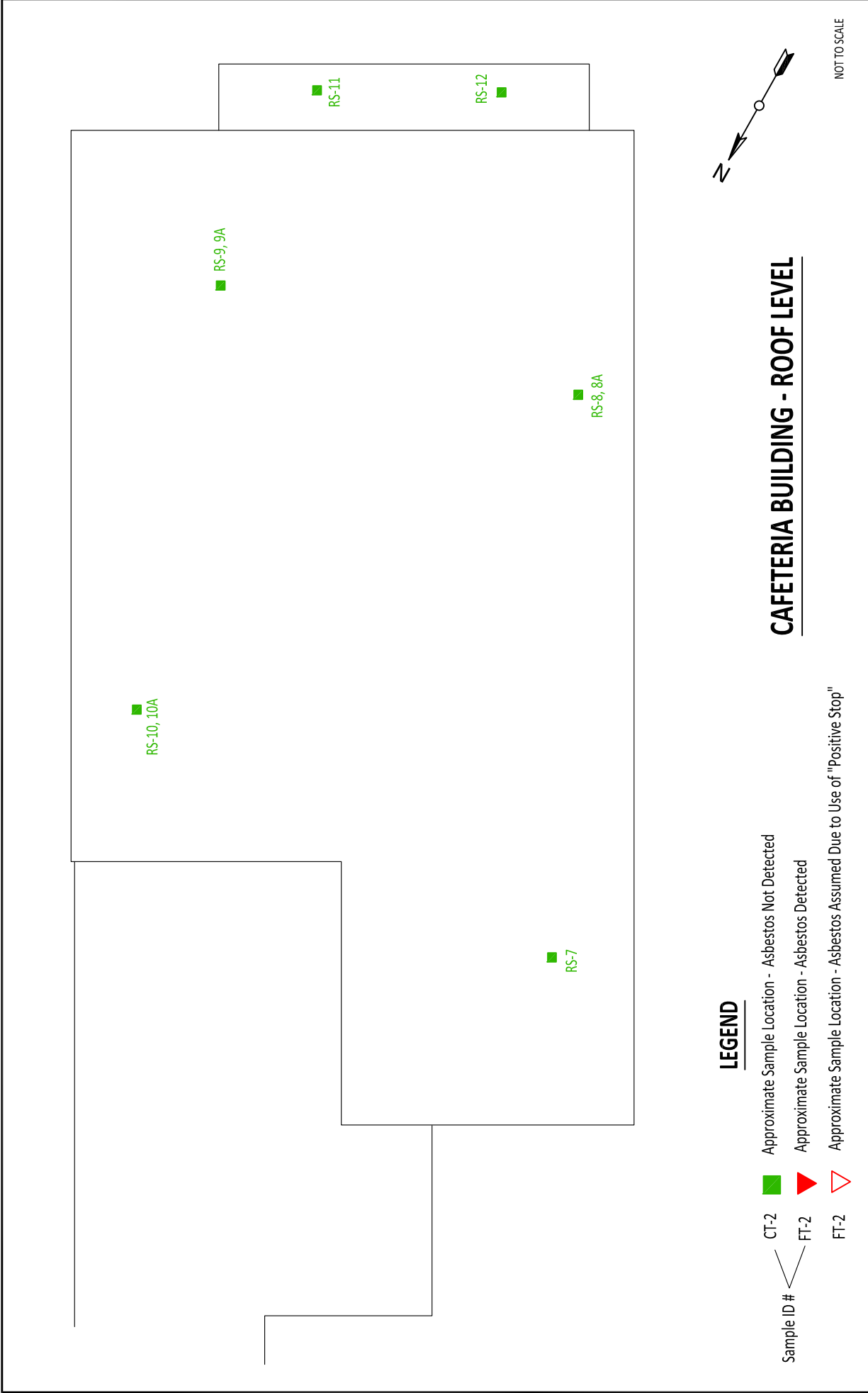


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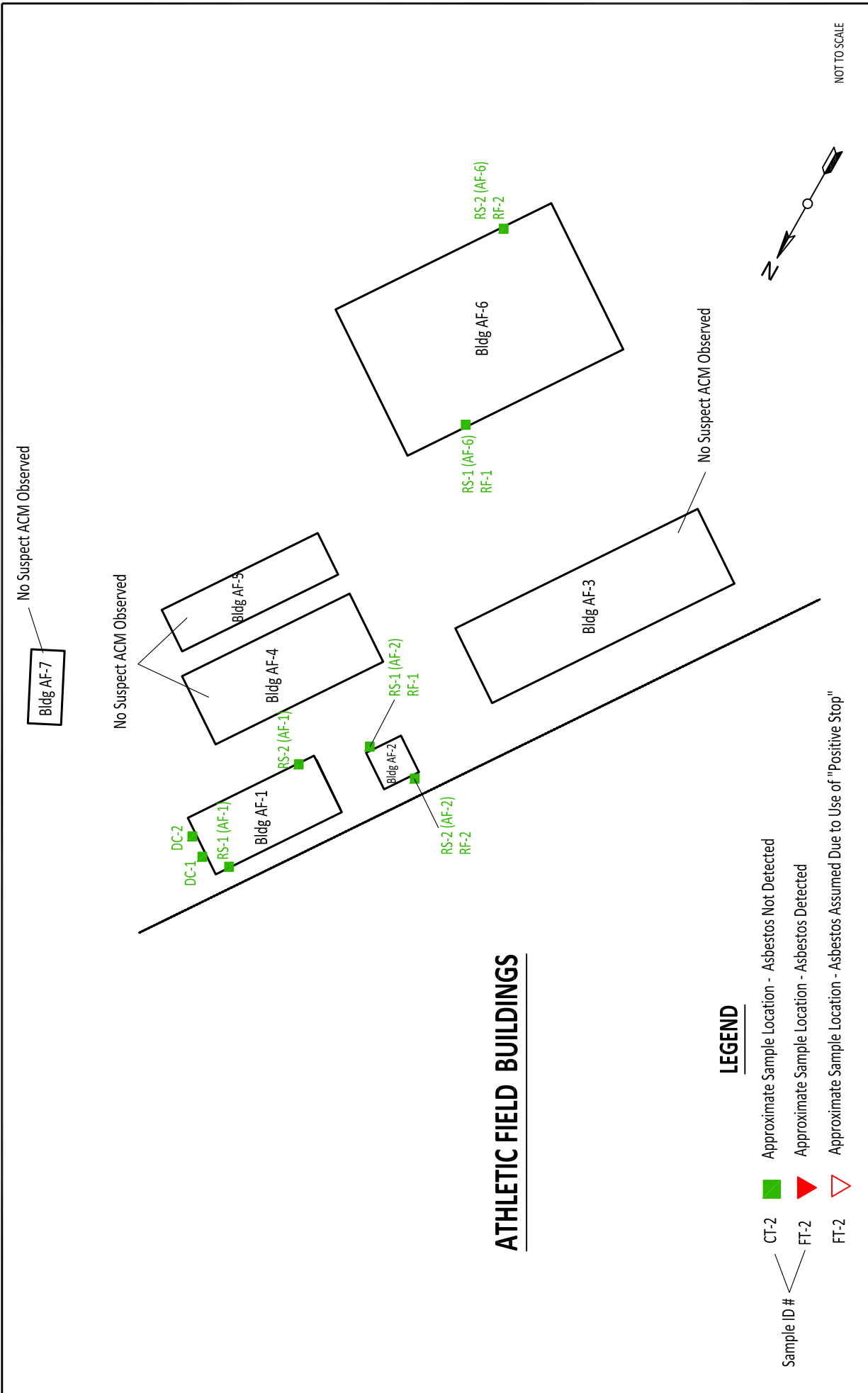
**ENVIRONMENTAL SERVICES REPORT  
B BLDG, CAFETERIA BLDG, & COVERED WALKWAYS  
FORMER DAVIE COUNTY H. S. - 1200 SALISBURY ROAD  
MOCKSVILLE, NORTH CAROLINA**

FIGURE

**5**



<p>ACES PROJ. NO.: 2017 - 11 - 118          DATE: January 11, 2018</p>	<p><b>ENVIRONMENTAL SERVICES REPORT</b>  <b>B BLDG, CAFETERIA BLDG, &amp; COVERED WALKWAYS</b>  <b>FORMER DAVIE COUNTY H. S. - 1200 SALISBURY ROAD</b>  <b>MOCKSVILLE, NORTH CAROLINA</b></p>	 <p><b>ALLIED CONSULTING &amp; ENVIRONMENTAL SERVICES</b>          SHELBY, NORTH CAROLINA          P.O. BOX 2426 (28151-2426) 704-600-6255          409 E. MARION ST. (28150) FAX 704-482-5596</p>	<p><b>SAMPLE LOCATION</b>  <b>PLAN</b></p>
<p>FIGURE <b>6</b></p>			



**LEGEND**

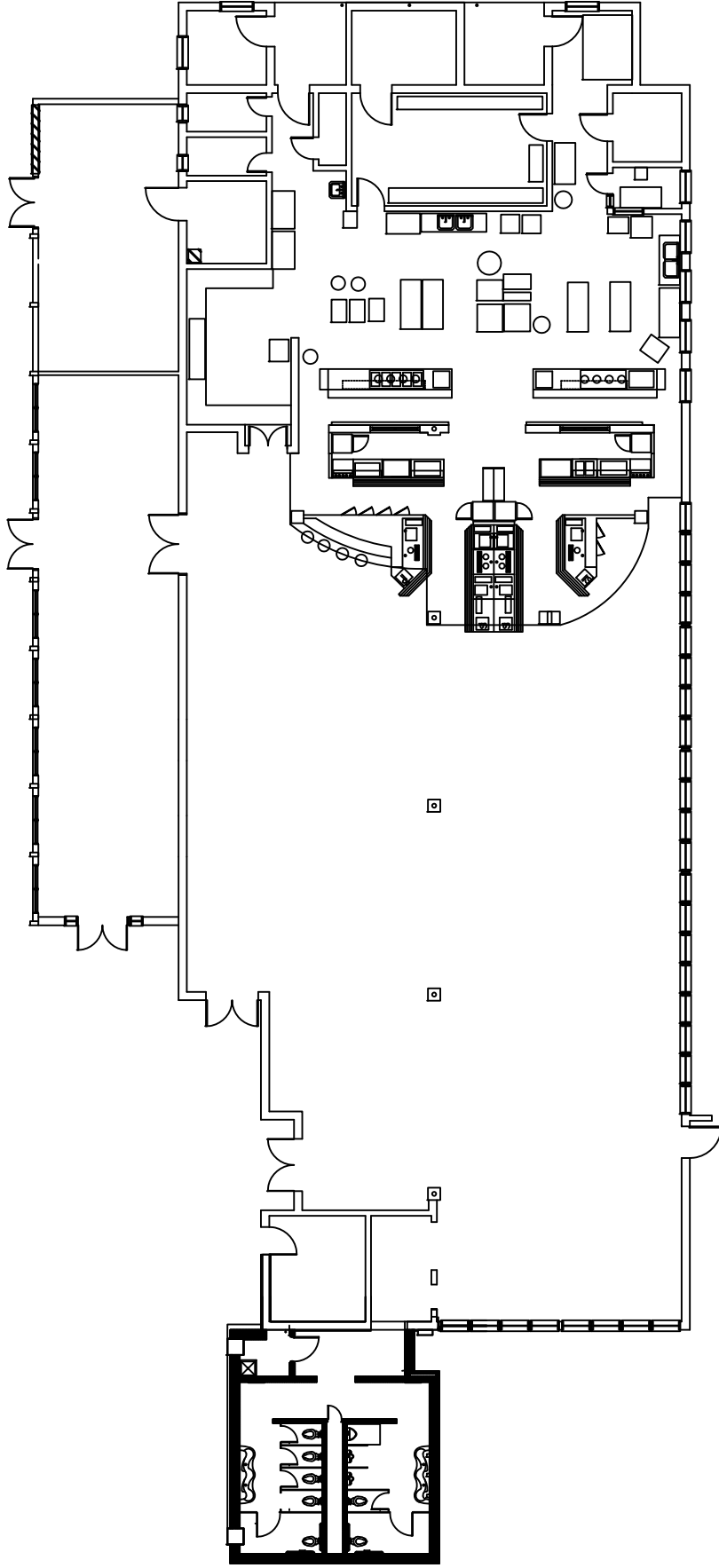
- Sample ID #  CT-2 Approximate Sample Location - Asbestos Not Detected
- FT-2 Approximate Sample Location - Asbestos Detected
- FT-2 Approximate Sample Location - Asbestos Assumed Due to Use of "Positive Stop"

ACES PROJ. NO.: 2017 - 11 - 118  
 DATE: January 11, 2018

**SAMPLE LOCATION PLAN**

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**B BLDG, CAFETERIA BLDG, & COVERED WALKWAYS**  
**FORMER DAVIE COUNTY H. S. - 1200 SALISBURY ROAD**  
**MOCKVILLE, NORTH CAROLINA**



NOT TO SCALE

**CAFETERIA BUILDING**


**LEGEND**

▨ Approximate Location of Identified ACM - Window Glazing & Pipe Wrap

**ENVIRONMENTAL SERVICES REPORT**  
**B BLDG, CAFETERIA BLDG, & COVERED WALKWAYS**  
**FORMER DAVIE COUNTY H. S. - 1200 SALISBURY ROAD**  
**MOCKSVILLE, NORTH CAROLINA**

FIGURE

**8**

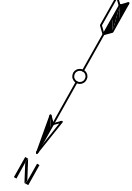
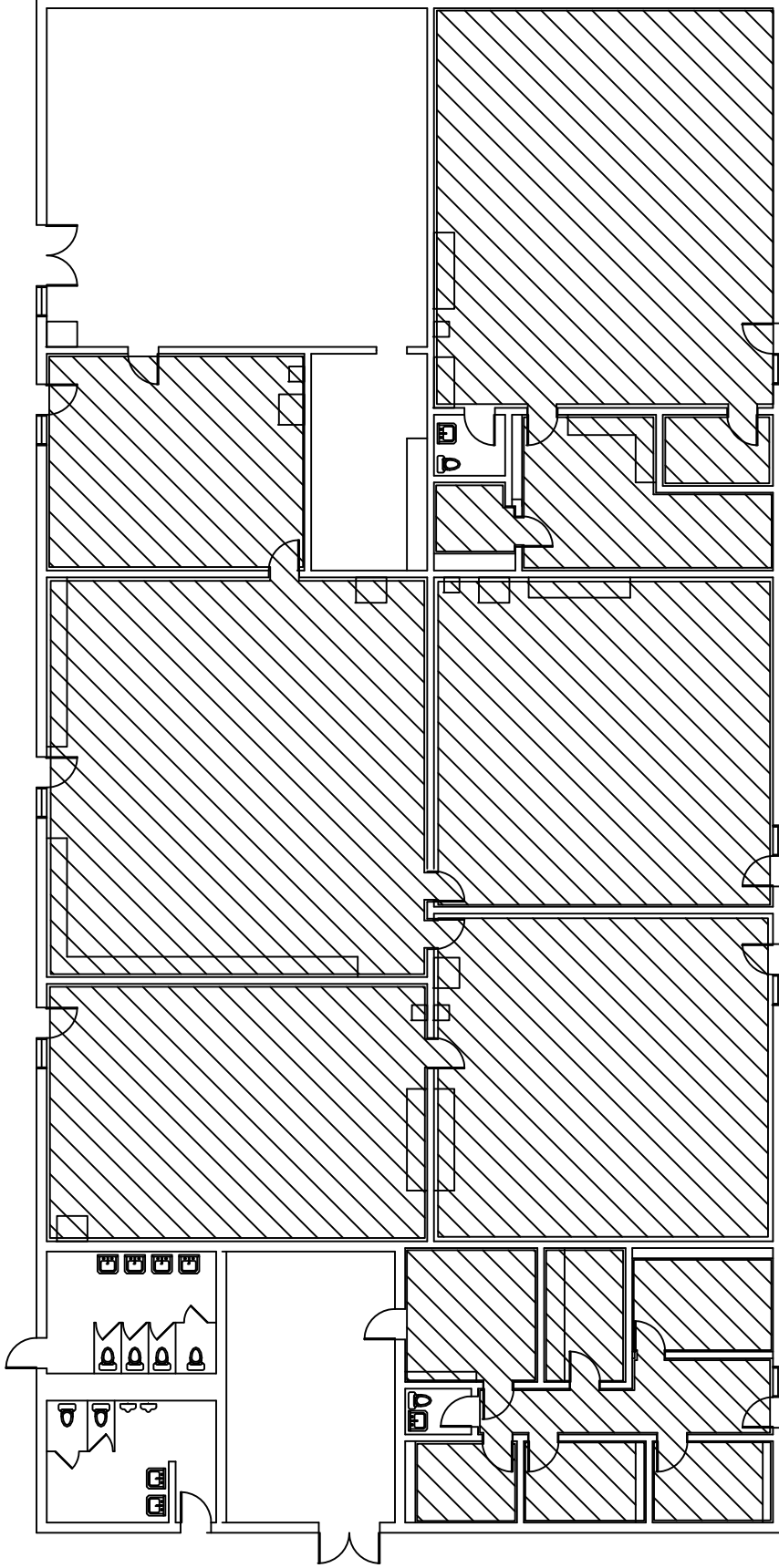


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ACES PROJ. NO.: 2017 - 11 - 118  
 DATE: January 11, 2018

**ACM LOCATION**  
**PLAN**





NOT TO SCALE


**"B" BUILDING**

**LEGEND**

▨ Approximate Location of Identified ACM - Floor Tile and Mastic

FIGURE **9**

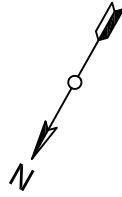
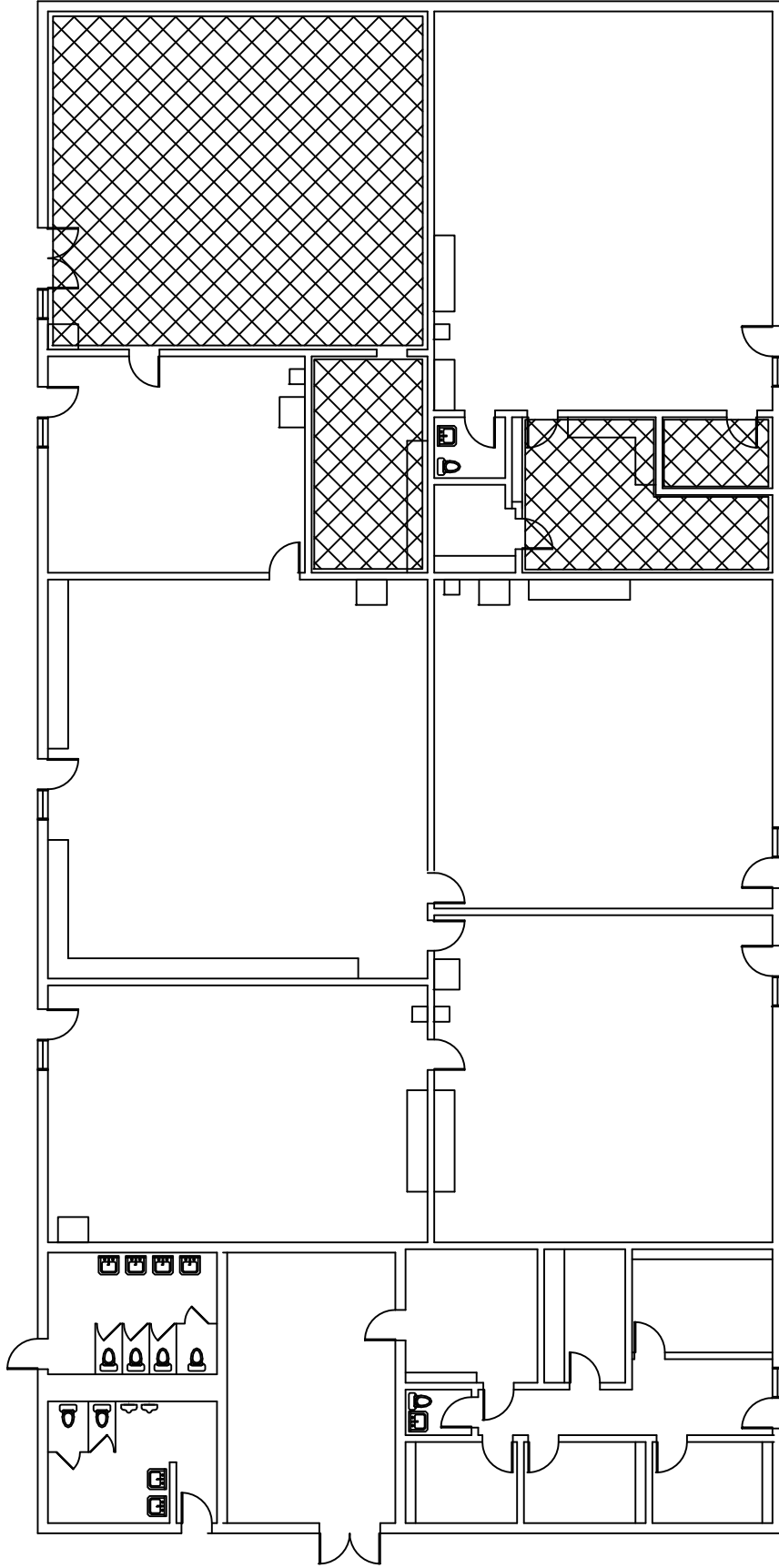
**ENVIRONMENTAL SERVICES REPORT**  
**B BLDG, CAFETERIA BLDG, & COVERED WALKWAYS**  
**FORMER DAVIE COUNTY H. S. - 1200 SALISBURY ROAD**  
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ACES PROJ. NO.: 2017 - 11 - 118  
 DATE: January 11, 2018

**ACM LOCATION**  
**PLAN**



NOT TO SCALE

**"B" BUILDING**

**LEGEND**

☒ Approximate Location of Identified ACM - Lay-in Ceiling Tile

ACES PROJ. NO.: 2017 - 11 - 118  
 DATE: January 11, 2018

**ACM LOCATION  
 PLAN**

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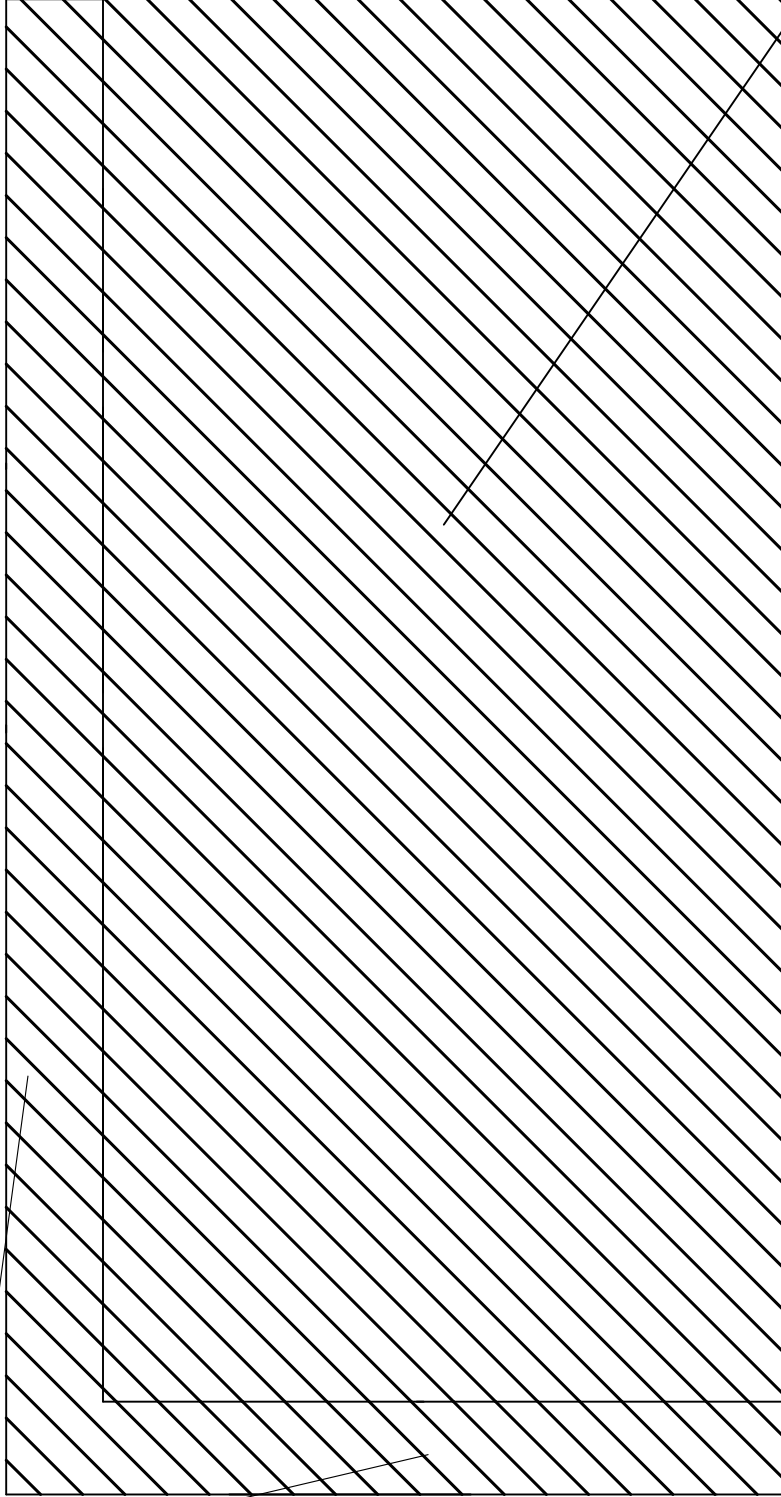


FIGURE

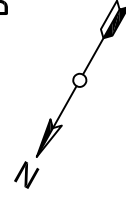
**10**

**ENVIRONMENTAL SERVICES REPORT  
 B BLDG, CAFETERIA BLDG, & COVERED WALKWAYS  
 FORMER DAVIE COUNTY H. S. - 1200 SALISBURY ROAD  
 MOCKSVILLE, NORTH CAROLINA**

COVERED WALKWAY




"B" BUILDING



NOT TO SCALE

"B" BUILDING & COVERED WALKWAY - ROOF LEVEL

**LEGEND**

 Approximate Location of Identified ACM - Roofing Materials

ACES PROJ. NO.: 2017 - 11 - 118  
DATE: January 11, 2018

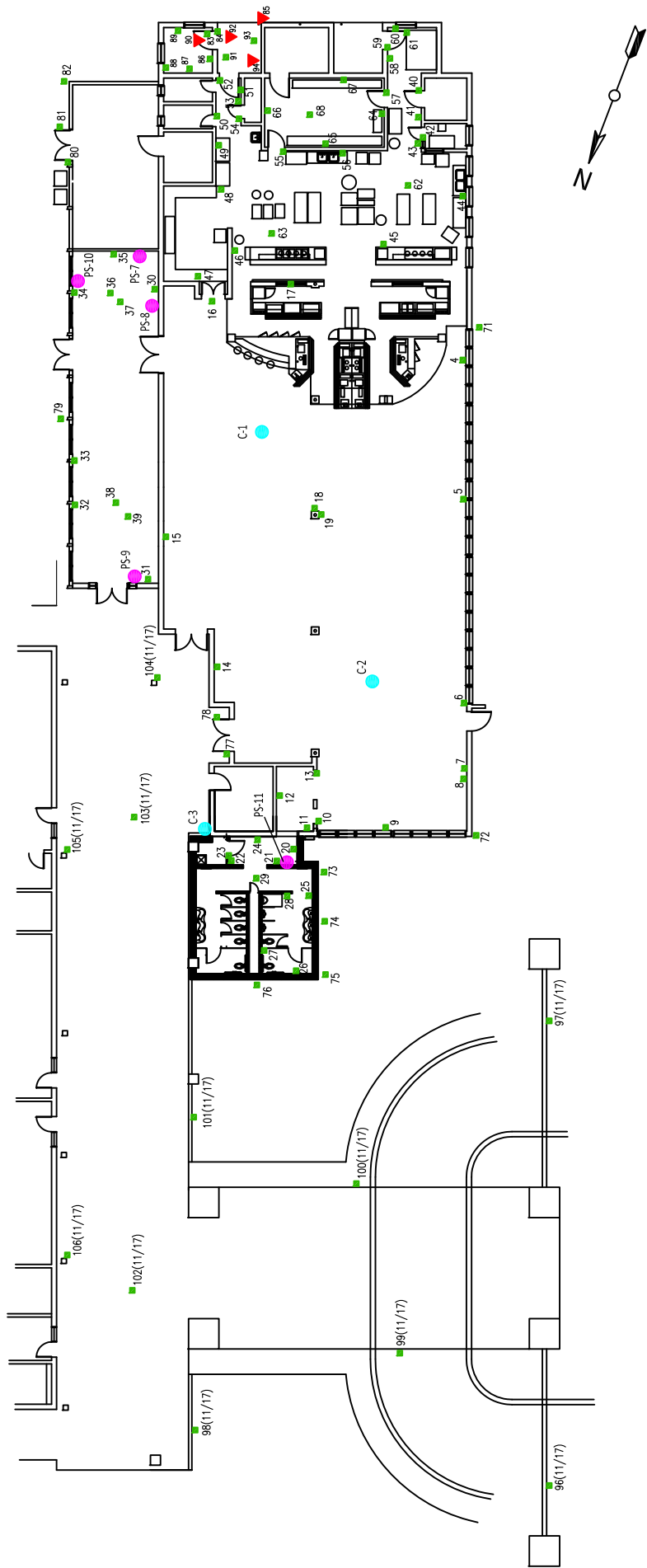
**ACM LOCATION  
PLAN**

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**ENVIRONMENTAL SERVICES REPORT  
B BLDG, CAFETERIA BLDG, & COVERED WALKWAYS  
FORMER DAVIE COUNTY H. S. - 1200 SALISBURY ROAD  
MOCKSVILLE, NORTH CAROLINA**

FIGURE


**11**



**CAFETERIA BUILDING**  
NOT TO SCALE

- LEGEND**
- 121 ■ Approximate Sample Location - Lead Paint Not Detected
  - 126 ▲ Approximate Sample Location - Lead-based Paint Detected
  - PS-12 Sample ID #
  - PS-10A Sample ID #
  - Approximate Sample Location - Total RCRA Metals
  - Approximate Sample Location - TCLP RCRA Metals
  - Approximate Sample Location - Caulk for PCB Analysis

**ENVIRONMENTAL SERVICES REPORT**  
**B BLDG, CAFETERIA BLDG, & COVERED WALKWAYS**  
**FORMER DAVIE COUNTY H. S. - 1200 SALISBURY ROAD**  
**MOCKSVILLE, NORTH CAROLINA**



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ACES PROJ. NO.: 2017 - 11 - 118  
 DATE: January 16, 2018  
**SAMPLE LOCATION**  
**PLAN**

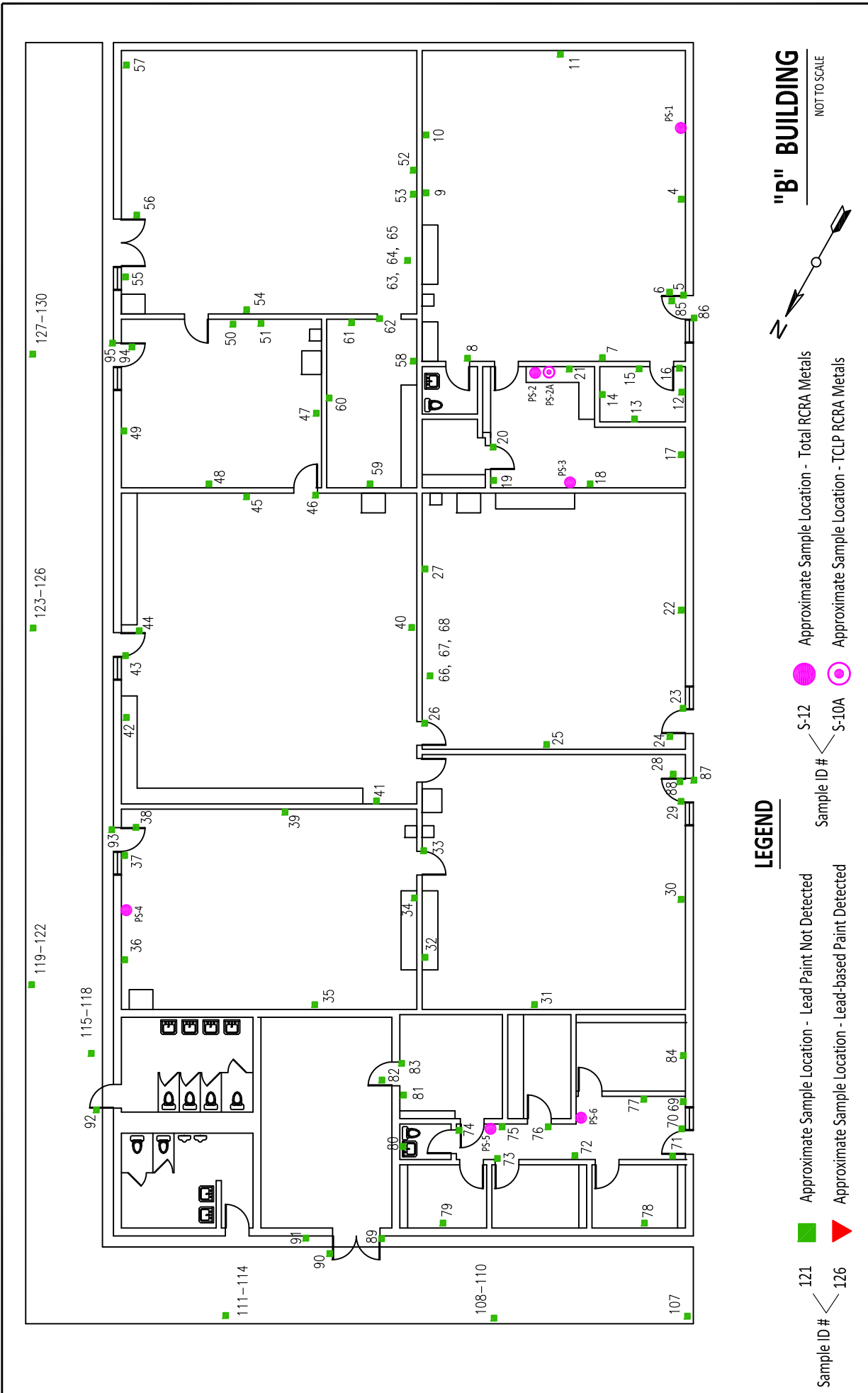


FIGURE **13**

**ENVIRONMENTAL SERVICES REPORT**  
**B BLDG, CAFETERIA BLDG, & COVERED WALKWAYS**  
**FORMER DAVIE COUNTY H. S. - 1200 SALISBURY ROAD**  
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ACES PROJ. NO.: 2017 - 11 - 118  
 DATE: January 16, 2018  
**SAMPLE LOCATION PLAN**



**APPENDIX 2**  
**ASBESTOS ANALYSIS RESULTS**  
**CHAIN OF CUSTODY FORMS**



# EMSL Analytical, Inc.

10801 Southern Loop Blvd Pineville, NC 28134

Tel/Fax: (704) 525-2205 / (704) 525-2382

<http://www.EMSL.com> / [charlottelab@emsl.com](mailto:charlottelab@emsl.com)

EMSL Order: 411708669

Customer ID: ALLC25

Customer PO:

Project ID:

**Attention:** Dewitt Whitten  
Allied Consulting & Environmental Svcs  
P.O. Box 2426  
Shelby, NC 28151

**Phone:** (704) 232-0152

**Fax:**

**Received Date:** 11/10/2017 10:50 AM

**Analysis Date:** 11/16/2017

**Collected Date:** 11/09/2017

**Project:** Davie Cty H.S. Cafeteria Bldg./ 2017-11-118

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
FT-1-Floor Tile <small>411708669-0001</small>	12x12 Floor Tile & Mastic	White Non-Fibrous Homogeneous		40% Ca Carbonate 60% Non-fibrous (Other)	None Detected
FT-1-Mastic <small>411708669-0001A</small>	12x12 Floor Tile & Mastic	Tan Non-Fibrous Homogeneous		8% Ca Carbonate 92% Non-fibrous (Other)	None Detected
FT-2-Floor Tile <small>411708669-0002</small>	12x12 Floor Tile & Mastic	White Non-Fibrous Homogeneous		40% Ca Carbonate 60% Non-fibrous (Other)	None Detected
FT-2-Mastic <small>411708669-0002A</small>	12x12 Floor Tile & Mastic	Tan Non-Fibrous Homogeneous		8% Ca Carbonate 92% Non-fibrous (Other)	None Detected
FT-3-Floor Tile <small>411708669-0003</small>	12x12 Floor Tile & Mastic	Black Non-Fibrous Homogeneous		40% Ca Carbonate 60% Non-fibrous (Other)	None Detected
FT-3-Mastic <small>411708669-0003A</small>	12x12 Floor Tile & Mastic	Yellow Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
FT-4-Floor Tile <small>411708669-0004</small>	12x12 Floor Tile & Mastic	Black Non-Fibrous Homogeneous		40% Ca Carbonate 60% Non-fibrous (Other)	None Detected
FT-4-Mastic <small>411708669-0004A</small>	12x12 Floor Tile & Mastic	Tan Non-Fibrous Homogeneous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected
CT-1 <small>411708669-0005</small>	2x2 LICT - Textured Finish	Gray/White Non-Fibrous Homogeneous	60% Cellulose 5% Min. Wool	10% Perlite 25% Non-fibrous (Other)	None Detected
CT-2 <small>411708669-0006</small>	2x2 LICT - Textured Finish	Gray/White Fibrous Homogeneous	60% Cellulose 15% Min. Wool	10% Perlite 15% Non-fibrous (Other)	None Detected
CT-3-Ceiling Tile <small>411708669-0007</small>	12x12 Ceiling Tile & Adhesive	Gray/White Non-Fibrous Homogeneous	2% Cellulose 70% Min. Wool	5% Ca Carbonate 23% Non-fibrous (Other)	None Detected
CT-3-Mastic <small>411708669-0007A</small>	12x12 Ceiling Tile & Adhesive	Brown Non-Fibrous Homogeneous	1% Fibrous (Other)	99% Non-fibrous (Other)	None Detected
CT-4-Ceiling Tile <small>411708669-0008</small>	12x12 Ceiling Tile & Adhesive	Gray Fibrous Homogeneous	5% Cellulose 85% Min. Wool	5% Ca Carbonate 5% Non-fibrous (Other)	None Detected
CT-4-Mastic <small>411708669-0008A</small>	12x12 Ceiling Tile & Adhesive	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
PC-1 <small>411708669-0009</small>	Plaster Ceiling	Gray Non-Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
PC-2 <small>411708669-0010</small>	Plaster Ceiling	Gray Non-Fibrous Homogeneous		25% Quartz 5% Ca Carbonate 70% Non-fibrous (Other)	None Detected

Initial report from: 11/16/2017 15:49:56



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**EMSL Order:** 411708669  
**Customer ID:** ALLC25  
**Customer PO:**  
**Project ID:**

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
PC-3 411708669-0011	Plaster Ceiling	Gray Non-Fibrous Homogeneous		30% Quartz 5% Ca Carbonate 65% Non-fibrous (Other)	None Detected
PC-4 411708669-0012	Plaster Ceiling	Gray Non-Fibrous Homogeneous		25% Quartz 5% Ca Carbonate 70% Non-fibrous (Other)	None Detected
PC-5 411708669-0013	Plaster Ceiling	Gray Non-Fibrous Homogeneous		20% Quartz 5% Ca Carbonate 75% Non-fibrous (Other)	None Detected
PW-1-Skim Coat 411708669-0014	Plaster Walls	White Non-Fibrous Homogeneous		8% Ca Carbonate 92% Non-fibrous (Other)	None Detected
PW-1-Rough Coat 411708669-0014A	Plaster Walls	Gray Non-Fibrous Homogeneous		25% Quartz 8% Ca Carbonate 67% Non-fibrous (Other)	None Detected
PW-2-Skim Coat 411708669-0015	Plaster Walls	White Non-Fibrous Homogeneous		8% Ca Carbonate 92% Non-fibrous (Other)	None Detected
PW-2-Rough Coat 411708669-0015A	Plaster Walls	Gray Non-Fibrous Homogeneous		20% Quartz 5% Ca Carbonate 75% Non-fibrous (Other)	None Detected
PW-3-Skim Coat 411708669-0016	Plaster Walls	White Non-Fibrous Homogeneous		8% Ca Carbonate 92% Non-fibrous (Other)	None Detected
PW-3-Rough Coat 411708669-0016A	Plaster Walls	Gray Non-Fibrous Homogeneous		30% Quartz 8% Ca Carbonate 62% Non-fibrous (Other)	None Detected
PW-4-Skim Coat 411708669-0017	Plaster Walls	White Non-Fibrous Homogeneous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected
PW-4-Rough Coat 411708669-0017A	Plaster Walls	Gray Non-Fibrous Homogeneous		25% Quartz 5% Ca Carbonate 70% Non-fibrous (Other)	None Detected
PW-5-Skim Coat 411708669-0018	Plaster Walls	White Non-Fibrous Homogeneous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected
PW-5-Rough Coat 411708669-0018A	Plaster Walls	Gray Non-Fibrous Homogeneous		20% Quartz 5% Ca Carbonate 75% Non-fibrous (Other)	None Detected
C-1 411708669-0019	Caulk at Skylights	White Non-Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
C-2 411708669-0020	Caulk at Skylights	White Fibrous Homogeneous	<1% Synthetic 5% Glass	5% Ca Carbonate 90% Non-fibrous (Other)	None Detected
WG-1 411708669-0021	Window Glazing	Gray Non-Fibrous Homogeneous		30% Ca Carbonate 68% Non-fibrous (Other)	2% Chrysotile
WG-2 411708669-0022	Window Glazing				Positive Stop (Not Analyzed)
EC-1 411708669-0023	Exterior Caulk	White Non-Fibrous Homogeneous		8% Ca Carbonate 92% Non-fibrous (Other)	None Detected
EC-2 411708669-0024	Exterior Caulk	White Non-Fibrous Homogeneous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected

Initial report from: 11/16/2017 15:49:56





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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
SLPW-1 <small>411708669-0025</small>	Wrap on Steam Line Piping	Brown/Black Non-Fibrous Homogeneous	15% Cellulose	5% Ca Carbonate 78% Non-fibrous (Other)	2% Chrysotile
SLPW-2 <small>411708669-0026</small>	Wrap on Steam Line Piping				Positive Stop (Not Analyzed)
SLPW-3 <small>411708669-0027</small>	Wrap on Steam Line Piping				Positive Stop (Not Analyzed)

Analyst(s) \_\_\_\_\_

Eric Loomis (20)

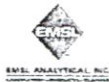
Lacy Searcy (15)

Lee Plumley, Laboratory Manager  
or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Samples received in good condition unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Reporting limit is 1%

Samples analyzed by EMSL Analytical, Inc. Pineville, NC NVLAP Lab Code 200841-0, VA 3333 00312

Initial report from: 11/16/2017 15:49:56



Asbestos Lab Services Chain of Custody  
 EMSL Order Number (Lab Use Only):

411708669

Charlotte, NC  
 376 Crompton Street  
 Charlotte, NC 28273  
 PHONE: (704) 525-2205  
 FAX: (704) 525 2382

Company: Allied Consulting & Environmental Services, LLC  
 Street: P. O. Box 2426  
 City/State/Zip: Shelby, NC 28151  
 Report To (Name): DeWitt Whitten  
 Telephone: 7042320152  
 Project Name/Number: **Davie City H.S. Cafeteria Bldg / 2017-11-11B**  
 Please Provide Results: Email  
 Purchase Order:  
 State Samples Taken: NC

EMSL-Bill to:  Same  Different

If Bill to is Different note instructions in Comments\*\*

Third Party Billing requires written authorization from third party

Turnaround Time (TAT) Options\* - Please Check

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

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

<p><b>PCM - Air</b> <input type="checkbox"/> Check if samples are from NY</p> <p><input type="checkbox"/> NIOSH 7400</p> <p><input type="checkbox"/> w/ OSHA 8hr. TWA</p> <p><b>PLM - Bulk (reporting limit)</b></p> <p><input checked="" type="checkbox"/> PLM EPA 600/R-93/116 (&lt;1%)</p> <p><input type="checkbox"/> PLM EPA NOB (&lt;1%)</p> <p>Point Count</p> <p><input type="checkbox"/> 400 (&lt;0.25%) <input type="checkbox"/> 1000 (&lt;0.1%)</p> <p>Point Count w/Gravimetric</p> <p><input type="checkbox"/> 400 (&lt;0.25%) <input type="checkbox"/> 1000 (&lt;0.1%)</p> <p><input type="checkbox"/> NYS 198.1 (friable in NY)</p> <p><input type="checkbox"/> NYS 198.6 NOB (non-friable-NY)</p> <p><input type="checkbox"/> NIOSH 9002 (&lt;1%)</p>	<p><b>TEM - Air</b> <input type="checkbox"/> 4-4.5hr TAT (AHERA only)</p> <p><input type="checkbox"/> AHERA 40 CFR, Part 763</p> <p><input type="checkbox"/> NIOSH 7402</p> <p><input type="checkbox"/> EPA Level II</p> <p><input type="checkbox"/> ISO 10312</p> <p><b>TEM - Bulk</b></p> <p><input type="checkbox"/> TEM EPA NOB</p> <p><input type="checkbox"/> NYS NOB 198.4 (non-friable-NY)</p> <p><input type="checkbox"/> Chatfield SOP</p> <p><input type="checkbox"/> TEM Mass Analysis-EPA 600 sec. 2.5</p> <p><b>TEM - Water: EPA 100.2</b></p> <p>Fibers &gt;10µm <input type="checkbox"/> Waste <input type="checkbox"/> Drinking</p> <p>All Fiber Sizes <input type="checkbox"/> Waste <input type="checkbox"/> Drinking</p>	<p><b>TEM - Dust</b></p> <p><input type="checkbox"/> Microvac - ASTM D 5755</p> <p><input type="checkbox"/> Wipe - ASTM D6480</p> <p><input type="checkbox"/> Carpet Sonication (EPA 600/J-93/167)</p> <p><b>Soil/Rock/Vermiculite</b></p> <p><input type="checkbox"/> PLM CARB 435 - A (0.25% sensitivity)</p> <p><input type="checkbox"/> PLM CARB 435 - B (0.1% sensitivity)</p> <p><input type="checkbox"/> TEM CARB 435 - B (0.1% sensitivity)</p> <p><input type="checkbox"/> TEM CARB 435 - C (0.01% sensitivity)</p> <p><input type="checkbox"/> EPA Protocol (Semi-Quantitative)</p> <p><input type="checkbox"/> EPA Protocol (Quantitative)</p> <p><b>Other:</b></p> <p><input type="checkbox"/></p>
---	--	--

Check For Positive Stop - Clearly Identify Homogenous Group Filter Pore Size (Air Samples):  0.8µm  0.45µm

Samplers Name: **Dewitt Whitten**

Samplers Signature: *[Signature]*

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
FT-1,2	12x12 Floor Tile & Mastic	HA #1	9 NOV 2017 AM
FT-3,4	12x12 Floor Tile & Mastic	HA #2	"
CT-1,2	2x2 LICT - textured finish	HA #3	"
CT-3,4	12x12 <del>ceiling tile</del> <sup>ceiling tile</sup> & ADHESIVE	HA #4	"
PC-1,2,3,4,5	Plaster ceiling	HA #5	"
PW-1,2,3,4,5	Plaster walls	HA #6	"
C-1,2	caulk @ skylights	HA #7	"
WG-1,2	Window Glazing	HA #8	"

Client Sample # (s): **see above & next page**

Total # of Samples: **27**

Relinquished (Client): *[Signature]*

Date: **10 Nov 2017**

Time: **10:44**

Received (Lab): *[Signature]*

Date: **11/10/17**

Time: **10:50 AM W/LN**

Comments/Special Instructions:





# EMSL Analytical, Inc.

10801 Southern Loop Blvd Pineville, NC 28134

Tel/Fax: (704) 525-2205 / (704) 525-2382

<http://www.EMSL.com> / [charlottelab@emsl.com](mailto:charlottelab@emsl.com)

EMSL Order: 411708670

Customer ID: ALLC25

Customer PO:

Project ID:

**Attention:** Dewitt Whitten  
Allied Consulting & Environmental Svcs  
P.O. Box 2426  
Shelby, NC 28151

**Phone:** (704) 232-0152

**Fax:**

**Received Date:** 11/10/2017 10:50 AM

**Analysis Date:** 11/16/2017

**Collected Date:** 11/09/2017

**Project:** Davie Cty H.S. - B Bldg./ 2017-11-118

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
FT-5-Floor Tile <small>411708670-0001</small>	12x12 Floor Tile & Mastic	Tan Fibrous Homogeneous		96% Non-fibrous (Other)	4% Chrysotile
FT-5-Mastic <small>411708670-0001A</small>	12x12 Floor Tile & Mastic	Black Fibrous Homogeneous	1% Cellulose	94% Non-fibrous (Other)	5% Chrysotile
FT-6-Floor Tile <small>411708670-0002</small>	12x12 Floor Tile & Mastic				Positive Stop (Not Analyzed)
FT-6-Mastic <small>411708670-0002A</small>	12x12 Floor Tile & Mastic				Positive Stop (Not Analyzed)
FT-7-Floor Tile <small>411708670-0003</small>	12x12 Floor Tile & Mastic	Tan Fibrous Homogeneous		35% Ca Carbonate 62% Non-fibrous (Other)	3% Chrysotile
FT-7-Mastic <small>411708670-0003A</small>	12x12 Floor Tile & Mastic	Black Fibrous Homogeneous	<1% Cellulose	5% Ca Carbonate 90% Non-fibrous (Other)	5% Chrysotile
FT-8-Floor Tile <small>411708670-0004</small>	12x12 Floor Tile & Mastic				Positive Stop (Not Analyzed)
FT-8-Mastic <small>411708670-0004A</small>	12x12 Floor Tile & Mastic				Positive Stop (Not Analyzed)
FT-9-Floor Tile <small>411708670-0005</small>	12x12 Floor Tile & Mastic				Positive Stop (Not Analyzed)
FT-9-Mastic <small>411708670-0005A</small>	12x12 Floor Tile & Mastic				Positive Stop (Not Analyzed)
FT-10-Floor Tile <small>411708670-0006</small>	12x12 Floor Tile & Mastic	Tan Fibrous Homogeneous		40% Ca Carbonate 57% Non-fibrous (Other)	3% Chrysotile
FT-10-Mastic <small>411708670-0006A</small>	12x12 Floor Tile & Mastic	Black Fibrous Homogeneous		96% Non-fibrous (Other)	4% Chrysotile
FT-11-Floor Tile <small>411708670-0007</small>	12x12 Floor Tile & Mastic				Positive Stop (Not Analyzed)
FT-11-Mastic <small>411708670-0007A</small>	12x12 Floor Tile & Mastic				Positive Stop (Not Analyzed)
FT-12-Floor Tile <small>411708670-0008</small>	12x12 Floor Tile & Mastic	Tan Fibrous Homogeneous		40% Ca Carbonate 57% Non-fibrous (Other)	3% Chrysotile
FT-12-Mastic <small>411708670-0008A</small>	12x12 Floor Tile & Mastic	Black Fibrous Homogeneous	1% Cellulose	94% Non-fibrous (Other)	5% Chrysotile

Initial report from: 11/16/2017 16:18:58



# EMSL Analytical, Inc.

10801 Southern Loop Blvd Pineville, NC 28134

Tel/Fax: (704) 525-2205 / (704) 525-2382

<http://www.EMSL.com> / [charlottelab@emsl.com](mailto:charlottelab@emsl.com)

**EMSL Order:** 411708670  
**Customer ID:** ALLC25  
**Customer PO:**  
**Project ID:**

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
FT-13-Floor Tile <small>411708670-0009</small>	12x12 Floor Tile & Mastic				Positive Stop (Not Analyzed)
FT-13-Mastic <small>411708670-0009A</small>	12x12 Floor Tile & Mastic				Positive Stop (Not Analyzed)
CT-5 <small>411708670-0010</small>	2x2 LICIT - Small Pinhole	Gray/White Fibrous Homogeneous	60% Cellulose 8% Min. Wool	10% Perlite 22% Non-fibrous (Other)	None Detected
CT-6 <small>411708670-0011</small>	2x2 LICIT - Small Pinhole	Gray/White Fibrous Heterogeneous	60% Cellulose 8% Min. Wool	10% Perlite 22% Non-fibrous (Other)	None Detected
CT-7 <small>411708670-0012</small>	2x2 LICIT - Textured Finish	Gray Fibrous Homogeneous	90% Min. Wool	7% Non-fibrous (Other)	3% Chrysotile
CT-8 <small>411708670-0013</small>	2x2 LICIT - Textured Finish				Positive Stop (Not Analyzed)
CT-9 <small>411708670-0014</small>	2x2 LICIT - Small Pinhole	Gray/White Fibrous Homogeneous	50% Cellulose 8% Min. Wool	10% Perlite 32% Non-fibrous (Other)	None Detected
CT-10 <small>411708670-0015</small>	2x2 LICIT - Small Pinhole	Gray/White Fibrous Heterogeneous	60% Cellulose 8% Min. Wool	10% Perlite 22% Non-fibrous (Other)	None Detected
CT-11 <small>411708670-0016</small>	2x2 LICIT - Textured Finish	Gray Fibrous Homogeneous	90% Min. Wool	7% Non-fibrous (Other)	3% Chrysotile
CT-12 <small>411708670-0017</small>	2x2 LICIT - Textured Finish				Positive Stop (Not Analyzed)
CT-13 <small>411708670-0018</small>	2x2 LICIT - Small Pinhole	Gray/White Fibrous Homogeneous	60% Cellulose 8% Min. Wool	10% Perlite 22% Non-fibrous (Other)	None Detected
CT-14 <small>411708670-0019</small>	2x2 LICIT - Small Pinhole	Gray/White Fibrous Heterogeneous	60% Cellulose 8% Min. Wool	15% Perlite 17% Non-fibrous (Other)	None Detected

Analyst(s) \_\_\_\_\_

Eric Loomis (3)  
Lacy Searcy (13)

Lee Plumley, Laboratory Manager  
or Other Approved Signatory

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Samples analyzed by EMSL Analytical, Inc. Pineville, NC NVLAP Lab Code 200841-0, VA 3333 00312

Initial report from: 11/16/2017 16:18:58



Asbestos Lab Services Chain of Custody  
 EMSL Order Number (Lab Use Only):

411708670

Charlotte, NC  
 376 Crompton Street  
 Charlotte, NC 28273  
 PHONE: (704) 525-2205  
 FAX: (704) 525 2382

Company: Allied Consulting & Environmental Services, LLC		EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different <small>If Bill to is Different note instructions in Comments**                  Third Party Billing requires written authorization from third party</small>	
Street: P. O. Box 2426			
City/State/Zip: Shelby, NC 28151			
Report To (Name): DeWitt Whitten		Fax: 7044825596	
Telephone: 7042320152		Email Address: dewitt@aces-env.com	
Project Name/Number: <b>Daric City H.S. - B Bldg 1 2017-11-11B</b>			
Please Provide Results: Email		Purchase Order:	State Samples Taken: NC

**Turnaround Time (TAT) Options\* - Please Check**

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

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

<b>PCM - Air</b> <input type="checkbox"/> Check if samples are from NY <input type="checkbox"/> NIOSH 7400 <input type="checkbox"/> w/ OSHA 8hr. TWA <b>PLM - Bulk (reporting limit)</b> <input checked="" type="checkbox"/> PLM EPA 600/R-93/116 (<1%) <input type="checkbox"/> PLM EPA NOB (<1%) Point Count <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) Point Count w/Gravimetric <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) <input type="checkbox"/> NYS 198.1 (friable in NY) <input type="checkbox"/> NYS 198.6 NOB (non-friable-NY) <input type="checkbox"/> NIOSH 9002 (<1%)	<b>TEM - Air</b> <input type="checkbox"/> 4-4.5hr TAT (AHERA only) <input type="checkbox"/> AHERA 40 CFR, Part 763 <input type="checkbox"/> NIOSH 7402 <input type="checkbox"/> EPA Level II <input type="checkbox"/> ISO 10312 <b>TEM - Bulk</b> <input type="checkbox"/> TEM EPA NOB <input type="checkbox"/> NYS NOB 198.4 (non-friable-NY) <input type="checkbox"/> Chatfield SOP <input type="checkbox"/> TEM Mass Analysis-EPA 600 sec. 2.5 <b>TEM - Water: EPA 100.2</b> Fibers >10µm <input type="checkbox"/> Waste <input type="checkbox"/> Drinking All Fiber Sizes <input type="checkbox"/> Waste <input type="checkbox"/> Drinking	<b>TEM - Dust</b> <input type="checkbox"/> Microvac - ASTM D 5755 <input type="checkbox"/> Wipe - ASTM D6480 <input type="checkbox"/> Carpet Sonication (EPA 600/J-93/167) <b>Soil/Rock/Vermiculite</b> <input type="checkbox"/> PLM CARB 435 - A (0.25% sensitivity) <input type="checkbox"/> PLM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - C (0.01% sensitivity) <input type="checkbox"/> EPA Protocol (Semi-Quantitative) <input type="checkbox"/> EPA Protocol (Quantitative) <b>Other:</b> <input type="checkbox"/>
---	--	---

Check For Positive Stop - Clearly Identify Homogenous Group    Filter Pore Size (Air Samples):  0.8µm  0.45µm

Samplers Name: **DeWitt Whitten**    Samplers Signature: *[Signature]*

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
FT-5, 6	12x12 Floor Tile & Mastic	HA # 11	9 NOV 2017 AM
FT-7, 8, 9	12x12 Floor Tile & Mastic	HA # 12	"
FT-10, 11	12x12 Floor Tile & Mastic	HA # 13	"
FT-12, 13	12x12 Floor Tile & Mastic	HA # 14	"
CT-5, 6	2x2 LICT - small pinhole	HA # 15	"
CT-7, 8	2x2 LICT - textured finish	HA # 16	"
CT-9, 10	2x2 LICT - small pin hole	HA # 17	"
CT-11, 12	2x2 LICT - textured finish	HA # 18	"

Client Sample # (s): <b>see above &amp; next page</b>	Total # of Samples: <b>19</b>
Relinquished (Client): <i>[Signature]</i>	Date: <b>10 Nov 2017</b> Time: <b>1046</b>
Received (Lab): <i>[Signature]</i>	Date: <b>11/10/17</b> Time: <b>10:50AM WLM</b>

Comments/Special Instructions:





# EMSL Analytical, Inc.

10801 Southern Loop Blvd Pineville, NC 28134

Tel/Fax: (704) 525-2205 / (704) 525-2382

<http://www.EMSL.com> / [charlottelab@emsl.com](mailto:charlottelab@emsl.com)

<b>EMSL Order:</b> 411708918
<b>Customer ID:</b> ALLC25
<b>Customer PO:</b>
<b>Project ID:</b>

<b>Attention:</b> Dewitt Whitten Allied Consulting & Environmental Svcs P.O. Box 2426 Shelby, NC 28151	<b>Phone:</b> (704) 232-0152 <b>Fax:</b> <b>Received Date:</b> 11/17/2017 1:50 PM <b>Analysis Date:</b> 11/24/2017 <b>Collected Date:</b> 11/17/2017
<b>Project:</b> Davie Cty H.S. B. Bldg. & Walkway/ 2017-11-118	

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
RS-1-Silver Paint <small>411708918-0001</small>	B. Bldg. - Roof	Silver Non-Fibrous Homogeneous		97% Non-fibrous (Other)	3% Chrysotile
RS-1-Roofing <small>411708918-0001A</small>	B. Bldg. - Roof	Brown/Black Fibrous Homogeneous	10% Cellulose	60% Non-fibrous (Other)	30% Chrysotile
RS-1-Insulation <small>411708918-0001B</small>	B. Bldg. - Roof	Brown Fibrous Homogeneous	75% Cellulose	25% Perlite	None Detected
RS-2-Silver Paint <small>411708918-0002</small>	B. Bldg. - Roof				Positive Stop (Not Analyzed)
RS-2-Roofing <small>411708918-0002A</small>	B. Bldg. - Roof				Positive Stop (Not Analyzed)
RS-2-Insulation <small>411708918-0002B</small>	B. Bldg. - Roof	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
RS-2-Felt <small>411708918-0002C</small>	B. Bldg. - Roof	Gray Fibrous Homogeneous	85% Cellulose 3% Glass	12% Non-fibrous (Other)	None Detected
RS-3-Silver Paint <small>411708918-0003</small>	B. Bldg. - Roof				Positive Stop (Not Analyzed)
RS-3-Roofing <small>411708918-0003A</small>	B. Bldg. - Roof				Positive Stop (Not Analyzed)
RS-4 <small>411708918-0004</small>	Covered Walkway - Roof	Brown/Black Fibrous Homogeneous	15% Cellulose	45% Non-fibrous (Other)	40% Chrysotile
RS-5 <small>411708918-0005</small>	Covered Walkway - Roof				Positive Stop (Not Analyzed)
RS-6 <small>411708918-0006</small>	Covered Walkway - Roof				Positive Stop (Not Analyzed)

Initial report from: 11/27/2017 13:27:05





# EMSL Analytical, Inc.

10801 Southern Loop Blvd Pineville, NC 28134

Tel/Fax: (704) 525-2205 / (704) 525-2382

<http://www.EMSL.com> / [charlottelab@emsl.com](mailto:charlottelab@emsl.com)

EMSL Order: 411708918

Customer ID: ALLC25

Customer PO:

Project ID:

Analyst(s)

Aaron Hartley (6)

Lee Plumley, Laboratory Manager  
or Other Approved Signatory

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Samples analyzed by EMSL Analytical, Inc. Pineville, NC NVLAP Lab Code 200841-0, VA 3333 00312

Initial report from: 11/27/2017 13:27:05

Asbestos Lab Services Chain of Custody  
 EMSL Order Number (Lab Use Only):

Charlotte, NC  
 376 Crompton Street  
 Charlotte, NC 28273  
 PHONE: (704) 525-2205  
 FAX: (704) 525 2362

411708918



Company: Allied Consulting & Environmental Services, LLC		EMSL-Bill to: <input checked="" type="checkbox"/> Same <input type="checkbox"/> Different <small>If Bill to is Different note instructions in Comments**                  Third Party Billing requires written authorization from third party</small>	
Street: P. O. Box 2426			
City/State/Zip: Shelby, NC 28151			
Report To (Name): DeWitt Whitten	Fax: 7044825596		
Telephone: 7042320152	Email Address: dewitt@aces-env.com		
Project Name/Number: <b>Davie City H.S. B Bldg &amp; Walkway / 2017-11-118</b>			
Please Provide Results: Email		Purchase Order: State Samples Taken: NC	

**Turnaround Time (TAT) Options\* - Please Check**

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

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

<b>PCM - Air</b> <input type="checkbox"/> Check if samples are from NY <input type="checkbox"/> NIOSH 7400 <input type="checkbox"/> w/ OSHA 8hr. TWA <b>PLM - Bulk (reporting limit)</b> <input checked="" type="checkbox"/> PLM EPA 600/R-93/116 (<1%) <input type="checkbox"/> PLM EPA NOB (<1%) Point Count <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) Point Count w/ Gravimetric <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) <input type="checkbox"/> NYS 198.1 (friable in NY) <input type="checkbox"/> NYS 198.6 NOB (non-friable-NY) <input type="checkbox"/> NIOSH 9002 (<1%)	<b>TEM - Air</b> <input type="checkbox"/> 4-4.5hr TAT (AHERA only) <input type="checkbox"/> AHERA 40 CFR, Part 763 <input type="checkbox"/> NIOSH 7402 <input type="checkbox"/> EPA Level II <input type="checkbox"/> ISO 10312 <b>TEM - Bulk</b> <input type="checkbox"/> TEM EPA NOB <input type="checkbox"/> NYS NOB 198.4 (non-friable-NY) <input type="checkbox"/> Chatfield SOP <input type="checkbox"/> TEM Mass Analysis-EPA 600 sec. 2.5 <b>TEM - Water: EPA 100.2</b> Fibers >10µm <input type="checkbox"/> Waste <input type="checkbox"/> Drinking All Fiber Sizes <input type="checkbox"/> Waste <input type="checkbox"/> Drinking	<b>TEM-Dust</b> <input type="checkbox"/> Microvac - ASTM D 5755 <input type="checkbox"/> Wipe - ASTM D6480 <input type="checkbox"/> Carpet Sonication (EPA 600/J-93/167) <b>Soil/Rock/Vermiculite</b> <input type="checkbox"/> PLM CARE 435 - A (0.25% sensitivity) <input type="checkbox"/> PLM CARE 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARE 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARE 435 - C (0.01% sensitivity) <input type="checkbox"/> EPA Protocol (Semi-Quantitative) <input type="checkbox"/> EPA Protocol (Quantitative) <b>Other:</b> <input type="checkbox"/>
--	--	---

Check For Positive Stop - Clearly Identify Homogenous Group    Filter Pore Size (Air Samples):  0.8µm  0.45µm

Samplers Name: **Dewitt Whitten**    Samplers Signature: *[Signature]*

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
RS-1, 2, 3	Roof - B Bldg	HA #1	17 Nov 17 AM
RS-4, 5, 6	Roof - Covered Walkway	HA #2	11

Client Sample # (s): <b>see above</b>	Total # of Samples: <b>6</b>
Relinquished (Client): <i>[Signature]</i> Date: <b>17 Nov 2017</b>	Time: <b>1:45</b>
Received (Lab): <b>Kyle Nelson</b> Date: <b>11/17/17</b>	Time: <b>1:50 pm W/LN</b>
Comments/Special Instructions:	



# EMSL Analytical, Inc.

10801 Southern Loop Blvd Pineville, NC 28134

Tel/Fax: (704) 525-2205 / (704) 525-2382

<http://www.EMSL.com> / [charlottelab@emsl.com](mailto:charlottelab@emsl.com)

EMSL Order: 411709311

Customer ID: ALLC25

Customer PO:

Project ID:

**Attention:** Dewitt Whitten  
Allied Consulting & Environmental Svcs  
P.O. Box 2426  
Shelby, NC 28151

**Phone:** (704) 232-0152

**Fax:**

**Received Date:** 12/05/2017 11:10 AM

**Analysis Date:** 12/08/2017

**Collected Date:** 12/05/2017

**Project:** Davie H.S.- Cafeteria Bldg /2017-11-118

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
RS-7-Gray/Tan Layer <small>411709311-0001</small>	Built-up Roof Section	Gray/Tan Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
RS-7-Tar <small>411709311-0001A</small>	Built-up Roof Section	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
RS-7-Roofing <small>411709311-0001B</small>	Built-up Roof Section	Black Fibrous Homogeneous	15% Cellulose	5% Quartz 5% Ca Carbonate 75% Non-fibrous (Other)	None Detected
RS-8-Gray/Tan Layer <small>411709311-0002</small>	Built-up Roof Section	Gray/Tan Fibrous Homogeneous	1% Cellulose	99% Non-fibrous (Other)	None Detected
RS-8-Tar <small>411709311-0002A</small>	Built-up Roof Section	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
RS-8-Roofing <small>411709311-0002B</small>	Built-up Roof Section	Black Fibrous Homogeneous	15% Cellulose	5% Quartz 5% Ca Carbonate 75% Non-fibrous (Other)	None Detected
RS-9-Gray/Tan Layer <small>411709311-0003</small>	Built-up Roof Section	Gray/Tan Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
RS-9-Tar <small>411709311-0003A</small>	Built-up Roof Section	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
RS-9-Roofing <small>411709311-0003B</small>	Built-up Roof Section	Black Fibrous Homogeneous	15% Cellulose	5% Quartz 5% Ca Carbonate 75% Non-fibrous (Other)	None Detected
RS-10-Gray/Tan Layer <small>411709311-0004</small>	Built-up Roof Section	Gray/Tan Fibrous Homogeneous	1% Cellulose	99% Non-fibrous (Other)	None Detected
RS-10-Tar <small>411709311-0004A</small>	Built-up Roof Section	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
RS-10-Roofing <small>411709311-0004B</small>	Built-up Roof Section	Black Fibrous Homogeneous	15% Cellulose	85% Non-fibrous (Other)	None Detected
RS-11 <small>411709311-0005</small>	Built-up Roof Section	Black Non-Fibrous Homogeneous		10% Quartz 5% Ca Carbonate 85% Non-fibrous (Other)	None Detected
RS-12 <small>411709311-0006</small>	Built-up Roof Section	Black Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
RS-8A <small>411709311-0007</small>	BUR Underlayment	Gray Non-Fibrous Homogeneous		8% Quartz 8% Ca Carbonate 84% Non-fibrous (Other)	None Detected
RS-9A <small>411709311-0008</small>	BUR Underlayment	Gray Non-Fibrous Homogeneous		8% Quartz 8% Ca Carbonate 84% Non-fibrous (Other)	None Detected

Initial report from: 12/08/2017 13:30:56



# EMSL Analytical, Inc.

10801 Southern Loop Blvd Pineville, NC 28134

Tel/Fax: (704) 525-2205 / (704) 525-2382

<http://www.EMSL.com> / [charlottelab@emsl.com](mailto:charlottelab@emsl.com)

**EMSL Order:** 411709311  
**Customer ID:** ALLC25  
**Customer PO:**  
**Project ID:**

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
RS-10A	BUR Underlayment	Gray Non-Fibrous Homogeneous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected

411709311-0009

Analyst(s) \_\_\_\_\_

Anupriya Tyagi (12)

Lacy Searcy (5)

Lee Plumley, Laboratory Manager  
or Other Approved Signatory

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Samples analyzed by EMSL Analytical, Inc. Pineville, NC NVLAP Lab Code 200841-0, VA 3333 00312

Initial report from: 12/08/2017 13:30:56



Asbestos Lab Services Chain of Custody

EMSL Order Number (Lab Use Only):

411709311

Charlotte, NC  
 376 Crompton Street  
 Charlotte, NC 28273  
 PHONE: (704) 525-2205  
 FAX: (704) 525 2382

Company: Allied Consulting & Environmental Services, LLC  
 Street: P. O. Box 2426  
 City/State/Zip: Shelby, NC 28151  
 Report To (Name): DeWitt Whitten  
 Telephone: 7042320152  
 Project Name/Number: Dawie H.S. - Cafeteria Bldg / 2017-11-118  
 Please Provide Results: Email  
 Purchase Order:  
 State Samples Taken: NC

EMSL-Bill to:  Same  Different  
 If Bill to is Different note instructions in Comments\*\*  
 Third Party Billing requires written authorization from third party

Fax: 7044825596  
 Email Address: dewitt@aces-env.com

Turnaround Time (TAT) Options\* - Please Check

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

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

PCM - Air  Check if samples are from NY

- NIOSH 7400  
 w/ OSHA 8hr. TWA

PLM - Bulk (reporting limit)

- PLM EPA 600/R-93/116 (<1%)  
 PLM EPA NOB (<1%)  
 Point Count  
 400 (<0.25%)  1000 (<0.1%)  
 Point Count w/Gravimetric  
 400 (<0.25%)  1000 (<0.1%)  
 NYS 198.1 (friable in NY)  
 NYS 198.6 NOB (non-friable-NY)  
 NIOSH 9002 (<1%)

TEM - Air  4-4.5hr TAT (AHERA only)

- AHERA 40 CFR, Part 763  
 NIOSH 7402  
 EPA Level II  
 ISO 10312

TEM - Bulk

- TEM EPA NOB  
 NYS NOB 198.4 (non-friable-NY)  
 Chatfield SOP  
 TEM Mass Analysis-EPA 600 sec. 2.5

TEM - Water: EPA 100.2

- Fibers >10µm  Waste  Drinking  
 All Fiber Sizes  Waste  Drinking

TEM - Dust

- Microvac - ASTM D 5755  
 Wipe - ASTM D6480  
 Carpet Sonication (EPA 600/J-93/167)

Soil/Rock/Vermiculite

- PLM CARB 435 - A (0.25% sensitivity)  
 PLM CARB 435 - B (0.1% sensitivity)  
 TEM CARB 435 - B (0.1% sensitivity)  
 TEM CARB 435 - C (0.01% sensitivity)  
 EPA Protocol (Semi-Quantitative)  
 EPA Protocol (Quantitative)

Other:

Check For Positive Stop - Clearly Identify Homogenous Group Filter Pore Size (Air Samples):  0.8µm  0.45µm

Samplers Name: DeWitt Whitten Samplers Signature: [Signature]

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
RS-7,8,9,10	Built-up Roof Section	HA#1	5 DEC 2017 AM
RS-11, 12	Built up Roof Section	HA#2	" "
RS-8A, 9A, 10A	BUR Underlayment	HA#3	" "

Client Sample # (s): See above Total # of Samples: 9  
 Relinquished (Client): [Signature] Date: 5 Dec 2017 Time: 1107  
 Received (Lab): [Signature] Date: 12/5/17 Time: 11:10AM W/IN

Comments/Special Instructions:



# EMSL Analytical, Inc.

376 Crompton Street Charlotte, NC 28273

Tel/Fax: (704) 525-2205 / (704) 525-2382

<http://www.EMSL.com> / [charlottelab@emsl.com](mailto:charlottelab@emsl.com)

EMSL Order: 411610289

Customer ID: ALLC25

Customer PO:

Project ID:

**Attention:** Dewitt Whitten  
Allied Consulting & Environmental Svcs  
P.O. Box 2426  
Shelby, NC 28151

**Phone:** (704) 232-0152

**Fax:**

**Received Date:** 12/30/2016 9:30 AM

**Analysis Date:** 01/05/2017

**Collected Date:** 12/27/2016

**Project:** Davie H.S. Various Outbldgs./ 2016-12-097

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
RS-1 411610289-0001	Storage Bldg. A - Roof Shingle	Various Fibrous Homogeneous	10% Glass	5% Quartz 5% Ca Carbonate 80% Non-fibrous (Other)	None Detected
RS-2 411610289-0002	Storage Bldg. A - Roof Shingle	Black Fibrous Homogeneous	2% Glass	5% Quartz 8% Ca Carbonate 85% Non-fibrous (Other)	None Detected
RS-1 411610289-0003	Storage Bldg. B - Roof Shingle	Black Fibrous Homogeneous	8% Glass	8% Quartz 5% Ca Carbonate 79% Non-fibrous (Other)	None Detected
RS-2 411610289-0004	Storage Bldg. B - Roof Shingle	Black Non-Fibrous Homogeneous	2% Glass	8% Quartz 8% Ca Carbonate 82% Non-fibrous (Other)	None Detected
RS-1 411610289-0005	Storage Bldg. C - Roof Shingle	Black Fibrous Homogeneous	10% Glass	5% Quartz 5% Ca Carbonate 80% Non-fibrous (Other)	None Detected
RS-2 411610289-0006	Storage Bldg. C - Roof Shingle	Black Fibrous Homogeneous	2% Cellulose	5% Quartz 10% Ca Carbonate 83% Non-fibrous (Other)	None Detected
RF-1 411610289-0007	Storage Bldg. C - Roof Felt	Black Fibrous Homogeneous	75% Cellulose	25% Non-fibrous (Other)	None Detected
RF-2 411610289-0008	Storage Bldg. C - Roof Felt	Black Fibrous Homogeneous	60% Cellulose	40% Non-fibrous (Other)	None Detected
DC-1 411610289-0009	Bldg. AF-1 - Door Caulk	Gray Non-Fibrous Homogeneous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected
DC-2 411610289-0010	Bldg. AF-1 - Door Caulk	Gray Non-Fibrous Homogeneous		15% Ca Carbonate 85% Non-fibrous (Other)	None Detected
RS-1 411610289-0011	Bldg. AF-1 - Roof Shingle	Green Fibrous Homogeneous	8% Glass	5% Quartz 5% Ca Carbonate 82% Non-fibrous (Other)	None Detected
RS-2 411610289-0012	Bldg. AF-1 - Roof Shingle	Black Fibrous Homogeneous	2% Glass	5% Quartz 8% Ca Carbonate 85% Non-fibrous (Other)	None Detected
RS-1 411610289-0013	Bldg. AF-2 - Roof Shingle	Various Fibrous Homogeneous	10% Glass	5% Quartz 8% Ca Carbonate 77% Non-fibrous (Other)	None Detected
RS-2 411610289-0014	Bldg. AF-2 - Roof Shingle	Black Fibrous Homogeneous	2% Glass	5% Quartz 8% Ca Carbonate 85% Non-fibrous (Other)	None Detected
RF-1 411610289-0015	Bldg. AF-2 - Roof Felt	Black Fibrous Homogeneous	75% Cellulose	25% Non-fibrous (Other)	None Detected
RF-2 411610289-0016	Bldg. AF-2 - Roof Felt	Black Fibrous Homogeneous	60% Cellulose	40% Non-fibrous (Other)	None Detected

Initial report from: 01/05/2017 14:29:21



# EMSL Analytical, Inc.

376 Crompton Street Charlotte, NC 28273

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<http://www.EMSL.com> / [charlottelab@emsl.com](mailto:charlottelab@emsl.com)

**EMSL Order:** 411610289  
**Customer ID:** ALLC25  
**Customer PO:**  
**Project ID:**

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

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
RS-1 <i>411610289-0017</i>	Bldg. AF-6 - Roof Shingle	Various Fibrous Homogeneous	10% Glass	8% Quartz 5% Ca Carbonate 77% Non-fibrous (Other)	None Detected
RS-2 <i>411610289-0018</i>	Bldg. AF-6 - Roof Shingle	Black Fibrous Homogeneous	1% Glass	5% Quartz 8% Ca Carbonate 86% Non-fibrous (Other)	None Detected
RF-1 <i>411610289-0019</i>	Bldg. AF-6 - Roof Felt	Black Fibrous Homogeneous	75% Cellulose	25% Non-fibrous (Other)	None Detected
RF-2 <i>411610289-0020</i>	Bldg. AF-6 - Roof Felt	Black Fibrous Homogeneous	60% Cellulose	40% Non-fibrous (Other)	None Detected

Analyst(s) \_\_\_\_\_

Anupriya Tyagi (10)

Lacy Searcy (10)

Lee Plumley, Laboratory Manager  
or Other Approved Signatory

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Samples analyzed by EMSL Analytical, Inc. Charlotte, NC NVLAP Lab Code 200841-0, VA 3333 00312

Initial report from: 01/05/2017 14:29:21



Asbestos Lab Services Chain of Custody

EMSL Order Number (Lab Use Only):

411610289

Charlotte, NC  
 376 Crompton Street  
 Charlotte, NC 28273  
 PHONE: (704) 525-2205  
 FAX: (704) 525 2382

Company: Allied Consulting & Environmental Services, LLC  
 Street: P. O. Box 2426  
 City/State/Zip: Shelby, NC 28151  
 Report To (Name): DeWitt Whitten  
 Telephone: 7042320152  
 Project Name/Number: **David H.S. Various Outbuildings / 2016-12-097**  
 Please Provide Results: Email | Purchase Order: | State Samples Taken: NC

Turnaround Time (TAT) Options\* - Please Check  
 3 Hour  6 Hour  24 Hour  48 Hour  72 Hour  96 Hour  1 Week  2 Week

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

<b>PCM - Air</b> <input type="checkbox"/> Check if samples are from NY <input type="checkbox"/> NIOSH 7400 <input type="checkbox"/> w/ OSHA 8hr. TWA <b>PLM - Bulk (reporting limit)</b> <input checked="" type="checkbox"/> PLM EPA 600/R-93/116 (<1%) <input type="checkbox"/> PLM EPA NOB (<1%) Point Count <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) Point Count w/Gravimetric <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1000 (<0.1%) <input type="checkbox"/> NYS 198.1 (friable in NY) <input type="checkbox"/> NYS 198.6 NOB (non-friable-NY) <input type="checkbox"/> NIOSH 9002 (<1%)	<b>TEM - Air</b> <input type="checkbox"/> 4-4.5hr TAT (AHERA only) <input type="checkbox"/> AHERA 40 CFR, Part 763 <input type="checkbox"/> NIOSH 7402 <input type="checkbox"/> EPA Level II <input type="checkbox"/> ISO 10312 <b>TEM - Bulk</b> <input type="checkbox"/> TEM EPA NOB <input type="checkbox"/> NYS NOB 198.4 (non-friable-NY) <input type="checkbox"/> Chatfield SOP <input type="checkbox"/> TEM Mass Analysis-EPA 600 sec. 2.5 <b>TEM - Water: EPA 100.2</b> Fibers >10µm <input type="checkbox"/> Waste <input type="checkbox"/> Drinking All Fiber Sizes <input type="checkbox"/> Waste <input type="checkbox"/> Drinking	<b>TEM - Dust</b> <input type="checkbox"/> Microvac - ASTM D 5755 <input type="checkbox"/> Wipe - ASTM D6480 <input type="checkbox"/> Carpet Sonication (EPA 600/J-93/167) <b>Soil/Rock/Vermiculite</b> <input type="checkbox"/> PLM CARB 435 - A (0.25% sensitivity) <input type="checkbox"/> PLM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - B (0.1% sensitivity) <input type="checkbox"/> TEM CARB 435 - C (0.01% sensitivity) <input type="checkbox"/> EPA Protocol (Semi-Quantitative) <input type="checkbox"/> EPA Protocol (Quantitative) <b>Other:</b> <input type="checkbox"/>
---	--	---

Check For Positive Stop - Clearly Identify Homogenous Group | Filter Pore Size (Air Samples):  0.8µm  0.45µm

Samplers Name: **DeWitt Whitten** | Samplers Signature: *[Signature]*

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
RS-1, 2	Roof Shingle - Storage Bldg A		27 DEC 16 PM
RS-4, 2	Roof Shingle - Storage Bldg B		"
RS-7, 2	Roof Shingle - Storage Bldg C		"
RF-1, 2	Roof Felt - Storage Bldg C		"
DC-1, 2	Door Caulk - Bldg AF-1		"
RS-1, 2	Roof Shingle - Bldg AF-1		"
RS-1, 2	Roof Shingle - Bldg AF-2		"
RF-1, 2	Roof Felt - Bldg AF-2		"
RS-1, 2	Roof Shingle - Bldg AF-4		"
RF-1, 2	Roof Felt - Bldg AF-4		"

Client Sample # (s): - | Total # of Samples: **20**

Relinquished (Client): *[Signature]* | Date: **30 Dec 2016** | Time: **0922**

Received (Lab): *[Signature]* | Date: **12/30/16** | Time: **9:30 AM WJW**

Comments/Special Instructions:





**APPENDIX 3**  
**XRF FIELD DATA SHEETS**



**XRF LBP TESTING DATA SHEET**

PROJECT NAME/ADDRESS/UNIT NO. Former Davie H.S. – Cafeteria Building, Mocksville, NC		PROJECT NO.	2017 – 11 – 118	DATE	16 November 2017			
XRF MODEL/SERIAL NO. INNOVX LBP 4000 #11916		INSPECTOR NAME/NO. DeWitt Whitten, NCRA 220118						
SAMPLE #	SUBSTRATE <sup>1</sup>	COMPONENT	COLOR <sup>2</sup>	TEST LOCATION	LEVEL	XRF READING	UNITS <sup>3</sup>	CLASSIFICATION <sup>4</sup>
4	M	Heating Guard	Gr	See Figure 12	1 <sup>st</sup>	0.02	mg/cm <sup>2</sup>	N
5	P	Column	O	See Figure 12	1 <sup>st</sup>	0.02	mg/cm <sup>2</sup>	N
6	P	Wall	Gr	See Figure 12	1 <sup>st</sup>	0.01	mg/cm <sup>2</sup>	N
7	P	Wall	O	See Figure 12	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N
8	P	Wall	Bk	See Figure 12	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N
9	M	Heater Guard	Gr	See Figure 12	1 <sup>st</sup>	0.01	mg/cm <sup>2</sup>	N
10	DW	Column	Gr	See Figure 12	1 <sup>st</sup>	0.01	mg/cm <sup>2</sup>	N
11	CMU	Wall	Gr	See Figure 12	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N
12	CMU	Wall	Bk	See Figure 12	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N
13	DW	Column	Gr	See Figure 12	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N
14	P	Wall	Gr	See Figure 12	1 <sup>st</sup>	0.01	mg/cm <sup>2</sup>	N
15	P	Wall	G	See Figure 12	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N
16	P	Wall	G	See Figure 12	1 <sup>st</sup>	0.01	mg/cm <sup>2</sup>	N
17	P	Wall	G	See Figure 12	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N
18	W	Column Enclosure	O	See Figure 12	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N
19	W	Column Enclosure	Bk	See Figure 12	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N
20	CMU	Wall	W	See Figure 12	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N
21	CMU	Wall	W	See Figure 12	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N
22	CMU	Wall	W	See Figure 12	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N
23	M	Door frame	W	See Figure 12	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N

1) M – metal  
W – wood  
DW – drywall  
B – Brick  
C – Concrete  
CMU – Concrete Masonry Unit  
P – Plaster

2) W- White  
B – Blue  
Y – Yellow  
Bk – Black  
Gr – Gray  
O – Orange  
Pr – Purple

3) R – Red  
G – Green  
T – Tan  
Br – Brown  
OW – Off-white  
P – Pink  
C – Clear

4) N – Negative  
P – Positive



**XRF LBP TESTING DATA SHEET**

PROJECT NAME/ADDRESS/UNIT NO. Former Davie H.S. – Cafeteria Building, Mocksville, NC		PROJECT NO.	2017 – 11 – 118	DATE	16 November 2017				
XRF MODEL/SERIAL NO. INNOVX LBP 4000 #11916		INSPECTOR NAME/NO. DeWitt Whitten, NCRA 220118							
SAMPLE #	SUBSTRATE <sup>1</sup>	COMPONENT	COLOR <sup>2</sup>	TEST LOCATION	LEVEL	XRF READING	SIGNATURE	UNITS <sup>3</sup>	CLASSIFICATION <sup>4</sup>
24	B	Wall	W	See Figure 12	1 <sup>st</sup>	0.00	<i>[Signature]</i>	mg/cm <sup>2</sup>	N
25	CMU	Wall	W	See Figure 12	1 <sup>st</sup>	0.00		mg/cm <sup>2</sup>	N
26	CMU	Wall	Gr	See Figure 12	1 <sup>st</sup>	0.00		mg/cm <sup>2</sup>	N
27	CMU	Wall	Gr	See Figure 12	1 <sup>st</sup>	0.00		mg/cm <sup>2</sup>	N
28	CMU	Wall	W	See Figure 12	1 <sup>st</sup>	0.00		mg/cm <sup>2</sup>	N
29	P	Ceiling	W	See Figure 12	1 <sup>st</sup>	0.00		mg/cm <sup>2</sup>	N
30	B	Wall	T	See Figure 12	1 <sup>st</sup>	0.00		mg/cm <sup>2</sup>	N
31	B	Wall	W	See Figure 12	1 <sup>st</sup>	0.00		mg/cm <sup>2</sup>	N
32	B	Wall	W	See Figure 12	1 <sup>st</sup>	0.00		mg/cm <sup>2</sup>	N
33	M	Column	W	See Figure 12	1 <sup>st</sup>	0.00		mg/cm <sup>2</sup>	N
34	M	Column	W	See Figure 12	1 <sup>st</sup>	0.00		mg/cm <sup>2</sup>	N
35	B	Wall	G	See Figure 12	1 <sup>st</sup>	0.00		mg/cm <sup>2</sup>	N
36	C	Beam	W	See Figure 12	1 <sup>st</sup>	0.00		mg/cm <sup>2</sup>	N
37	C	Ceiling	W	See Figure 12	1 <sup>st</sup>	0.00		mg/cm <sup>2</sup>	N
38	C	Ceiling	W	See Figure 12	1 <sup>st</sup>	0.00		mg/cm <sup>2</sup>	N
39	C	Beam	W	See Figure 12	1 <sup>st</sup>	0.00		mg/cm <sup>2</sup>	N
40	W	Door casing	Gr	See Figure 12	1 <sup>st</sup>	0.07		mg/cm <sup>2</sup>	N
41	P	Wall	W	See Figure 12	1 <sup>st</sup>	0.00		mg/cm <sup>2</sup>	N
42	M	Door frame	W	See Figure 12	1 <sup>st</sup>	0.01		mg/cm <sup>2</sup>	N
43	M	Window frame	W	See Figure 12	1 <sup>st</sup>	0.02		mg/cm <sup>2</sup>	N

1) M – metal  
W – wood  
DW – drywall  
B – Brick  
C – Concrete  
CMU – Concrete Masonry Unit  
P – Plaster

2) W- White  
B – Blue  
Y – Yellow  
Bk – Black  
Gr – Gray  
O – Orange  
Pr – Purple

3) R – Red  
G – Green  
T – Tan  
Br – Brown  
OW – Off-white  
P – Pink  
C – Clear

4) N – Negative  
P – Positive



**XRF LBP TESTING DATA SHEET**

PROJECT NAME/ADDRESS/UNIT NO. Former Davie H.S. – Cafeteria Building, Mocksville, NC		PROJECT NO. 2017 – 11 – 118	DATE 16 November 2017					
XRF MODEL/SERIAL NO. INNOVX LBP 4000 #11916		INSPECTOR NAME/NO. DeWitt Whitten, NCRA 220118	SIGNATURE <i>[Signature]</i>					
SAMPLE #	SUBSTRATE <sup>1</sup>	COMPONENT	COLOR <sup>2</sup>	TEST LOCATION	LEVEL	XRF READING	UNITS <sup>3</sup>	CLASSIFICATION <sup>4</sup>
44	P	Wall	W	See Figure 12	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N
45	DW	Wall	W	See Figure 12	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N
46	P	Wall	W	See Figure 12	1 <sup>st</sup>	0.04	mg/cm <sup>2</sup>	N
47	P	Wall	W	See Figure 12	1 <sup>st</sup>	0.07	mg/cm <sup>2</sup>	N
48	P	Wall	W	See Figure 12	1 <sup>st</sup>	0.05	mg/cm <sup>2</sup>	N
49	P	Wall	W	See Figure 12	1 <sup>st</sup>	0.01	mg/cm <sup>2</sup>	N
50	M	Door frame	W	See Figure 12	1 <sup>st</sup>	0.03	mg/cm <sup>2</sup>	N
51	M	Door	Gr	See Figure 12	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N
52	M	Door frame	Gr	See Figure 12	1 <sup>st</sup>	0.01	mg/cm <sup>2</sup>	N
53	P	Wall	W	See Figure 12	1 <sup>st</sup>	0.02	mg/cm <sup>2</sup>	N
54	M	Door frame	Gr	See Figure 12	1 <sup>st</sup>	0.02	mg/cm <sup>2</sup>	N
55	M	Door frame	Gr	See Figure 12	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N
56	P	Wall	W	See Figure 12	1 <sup>st</sup>	0.02	mg/cm <sup>2</sup>	N
57	M	Door frame	Gr	See Figure 12	1 <sup>st</sup>	0.01	mg/cm <sup>2</sup>	N
58	P	Wall	Gr	See Figure 12	1 <sup>st</sup>	0.03	mg/cm <sup>2</sup>	N
59	M	Door frame	Gr	See Figure 12	1 <sup>st</sup>	0.03	mg/cm <sup>2</sup>	N
60	M	door	Gr	See Figure 12	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N
61	p	wall	Gr	See Figure 12	1 <sup>st</sup>	0.01	mg/cm <sup>2</sup>	N
62	P	Ceiling	W	See Figure 12	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N
63	P	Ceiling	W	See Figure 12	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N

1) M – metal  
W – wood  
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C – Concrete  
CMU – Concrete Masonry Unit  
P – Plaster

2) W- White  
B – Blue  
Y – Yellow  
Bk – Black  
Gr – Gray  
O – Orange  
Pr – Purple

3) R – Red  
G – Green  
T – Tan  
Br – Brown  
OW – Off-white  
P – Pink  
C – Clear

4) N – Negative  
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**XRF LBP TESTING DATA SHEET**

PROJECT NAME/ADDRESS/UNIT NO. Former Davie H.S. – Cafeteria Building, Mocksville, NC		PROJECT NO. 2017 – 11 – 118	DATE 16 November 2017					
XRF MODEL/SERIAL NO. INNOVX LBP 4000 #11916		INSPECTOR NAME/NO. DeWitt Whitten, NCRA 220118	SIGNATURE <i>[Signature]</i>					
SAMPLE #	SUBSTRATE <sup>1</sup>	COMPONENT	COLOR <sup>2</sup>	TEST LOCATION	LEVEL	XRF READING	UNITS <sup>3</sup>	CLASSIFICATION <sup>4</sup>
64	CMU	Wall	W	See Figure 12	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N
65	CMU	Wall	W	See Figure 12	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N
66	CMU	Wall	W	See Figure 12	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N
67	CMU	Wall	W	See Figure 12	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N
68	C	Floor	Gr	See Figure 12	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N
71	M	Gutter downspout	Gr	See Figure 12	1 <sup>st</sup>	0.14	mg/cm <sup>2</sup>	N
72	M	Gutter downspout	Gr	See Figure 12	1 <sup>st</sup>	0.11	mg/cm <sup>2</sup>	N
73	M	Gutter	B	See Figure 12	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N
74	M	Eave	B	See Figure 12	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N
75	M	Gutter downspout	B	See Figure 12	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N
76	M	Gable	B	See Figure 12	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N
77	M	Door frame	B	See Figure 12	1 <sup>st</sup>	0.01	mg/cm <sup>2</sup>	N
78	M	Door	B	See Figure 12	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N
79	M	Gutter downspout	Gr	See Figure 12	1 <sup>st</sup>	0.18	mg/cm <sup>2</sup>	N
80	M	Door frame	Gr	See Figure 12	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N
81	M	Door	Gr	See Figure 12	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N
82	M	Gutter downspout	Gr	See Figure 12	1 <sup>st</sup>	0.09	mg/cm <sup>2</sup>	N
83	M	Door	Gr	See Figure 12	1 <sup>st</sup>	0.08	mg/cm <sup>2</sup>	N
84	M	Door frame	Gr	See Figure 12	1 <sup>st</sup>	0.06	mg/cm <sup>2</sup>	N
85	M	Column	Br	See Figure 12	1 <sup>st</sup>	3.07	mg/cm <sup>2</sup>	P

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O – Orange  
Pr – Purple

3) mg/cm<sup>2</sup> – milligrams/square centimeter

4) N – Negative  
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**XRF LBP TESTING DATA SHEET**

<b>PROJECT NAME/ADDRESS/UNIT NO.</b> Former Davie H.S. – Cafeteria Building, Mocksville, NC		<b>PROJECT NO.</b> 2017 – 11 – 118	<b>DATE</b> 16 November 2017					
<b>XRF MODEL/SERIAL NO.</b> INNOVX LBP 4000 #11916		<b>INSPECTOR NAME/NO.</b> DeWitt Whitten, NCRA 220118	<b>SIGNATURE</b> <i>[Signature]</i>					
<b>SAMPLE #</b>	<b>SUBSTRATE<sup>1</sup></b>	<b>COMPONENT</b>	<b>COLOR<sup>2</sup></b>	<b>TEST LOCATION</b>	<b>LEVEL</b>	<b>XRF READING</b>	<b>UNITS<sup>3</sup></b>	<b>CLASSIFICATION<sup>4</sup></b>
86	CMU	Wall	O	See Figure 12	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N
87	CMU	Wall	O	See Figure 12	1 <sup>st</sup>	0.01	mg/cm <sup>2</sup>	N
88	CMU	Wall	O	See Figure 12	1 <sup>st</sup>	0.04	mg/cm <sup>2</sup>	N
89	CMU	Wall	O	See Figure 12	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N
90	M	Beam	O	See Figure 12	1 <sup>st</sup>	> 5.0	mg/cm <sup>2</sup>	P
91	M	Decking	O	See Figure 12	1 <sup>st</sup>	0.13	mg/cm <sup>2</sup>	N
92	M	Beam	Br	See Figure 12	1 <sup>st</sup>	> 5.0	mg/cm <sup>2</sup>	P
93	M	Decking	Br	See Figure 12	1 <sup>st</sup>	0.07	mg/cm <sup>2</sup>	N
94	M	Beam	Br	See Figure 12	1 <sup>st</sup>	4.78	mg/cm <sup>2</sup>	P

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- 3) mg/cm<sup>2</sup> – milligrams/square centimeter
- 4) N – Negative  
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**XRF LBP TESTING DATA SHEET**

PROJECT NAME/ADDRESS/UNIT NO.		Former Davie H.S. - B Building & Covered Walkways, Mocksville, NC		PROJECT NO.	2017 - 11 - 118		DATE	17 November 2017	
XRF MODEL/SERIAL NO.		INNOVX LBP 4000 #11916		INSPECTOR NAME/NO.		DeWitt Whitten, NCRA 220118		SIGNATURE	
SAMPLE #	SUBSTRATE <sup>1</sup>	COMPONENT	COLOR <sup>2</sup>	TEST LOCATION	LEVEL	XRF READING	UNITS <sup>3</sup>	CLASSIFICATION <sup>4</sup>	
4	CMU	Wall	W	See Figure 13	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N	
5	M	Door frame	W	See Figure 13	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N	
6	M	Door	W	See Figure 13	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N	
7	CMU	Wall	W	See Figure 13	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N	
8	M	Door frame	W	See Figure 13	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N	
9	C	Column	W	See Figure 13	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N	
10	CMU	Wall	W	See Figure 13	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N	
11	CMU	Wall	W	See Figure 13	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N	
12	CMU	Wall	W	See Figure 13	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N	
13	CMU	Wall	W	See Figure 13	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N	
14	CMU	Wall	W	See Figure 13	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N	
15	M	Window frame	W	See Figure 13	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N	
16	CMU	Wall	W	See Figure 13	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N	
17	CMU	Wall	G	See Figure 13	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N	
18	CMU	Wall	B	See Figure 13	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N	
19	CMU	Wall	G	See Figure 13	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N	
20	M	Door frame	B	See Figure 13	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N	
21	CMU	Wall	B	See Figure 13	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N	
22	CMU	Wall	W	See Figure 13	1 <sup>st</sup>	0.02	mg/cm <sup>2</sup>	N	
23	M	Door frame	W	See Figure 13	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N	

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P - Pink  
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3) mg/cm<sup>2</sup> - milligrams/square centimeter

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**XRF LBP TESTING DATA SHEET**

PROJECT NAME/ADDRESS/UNIT NO.		Former Davie H.S. - B Building & Covered Walkways, Mocksville, NC		PROJECT NO.	2017 - 11 - 118		DATE	17 November 2017	
XRF MODEL/SERIAL NO.		INNOVX LBP 4000 #11916		INSPECTOR NAME/NO.		DeWitt Whitten, NCRA 220118		SIGNATURE	
SAMPLE #	SUBSTRATE <sup>1</sup>	COMPONENT	COLOR <sup>2</sup>	TEST LOCATION	LEVEL	XRF READING	UNITS <sup>3</sup>	CLASSIFICATION <sup>4</sup>	
24	M	Door	W	See Figure 13	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N	
25	CMU	Wall	W	See Figure 13	1 <sup>st</sup>	0.04	mg/cm <sup>2</sup>	N	
26	M	Door frame	W	See Figure 13	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N	
27	CMU	Wall	W	See Figure 13	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N	
28	M	Door	W	See Figure 13	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N	
29	M	Door frame	W	See Figure 13	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N	
30	CMU	Wall	G	See Figure 13	1 <sup>st</sup>	0.03	mg/cm <sup>2</sup>	N	
31	CMU	Wall	W	See Figure 13	1 <sup>st</sup>	0.02	mg/cm <sup>2</sup>	N	
32	CMU	Wall	W	See Figure 13	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N	
33	M	Door frame	W	See Figure 13	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N	
34	CMU	Wall	W	See Figure 13	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N	
35	CMU	Wall	W	See Figure 13	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N	
36	CMU	Wall	W	See Figure 13	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N	
37	M	Window/door frame	W	See Figure 13	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N	
38	M	Door	W	See Figure 13	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N	
39	CMU	Wall	W	See Figure 13	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N	
40	CMU	Wall	W	See Figure 13	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N	
41	CMU	Wall	W	See Figure 13	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N	
42	CMU	Wall	W	See Figure 13	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N	
43	M	Door frame	W	See Figure 13	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N	

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Bk - Black  
Gr - Gray  
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3) mg/cm<sup>2</sup> - milligrams/square centimeter  
R - Red  
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Br - Brown  
OW - Off-white  
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**XRF LBP TESTING DATA SHEET**

PROJECT NAME/ADDRESS/UNIT NO.		Former Davie H.S. - B Building & Covered Walkways, Mocksville, NC		PROJECT NO.	2017 - 11 - 118		DATE	17 November 2017	
XRF MODEL/SERIAL NO.		INNOVX LBP 4000 #11916		INSPECTOR NAME/NO.		DeWitt Whitten, NCRA 220118		SIGNATURE	
SAMPLE #	SUBSTRATE <sup>1</sup>	COMPONENT	COLOR <sup>2</sup>	TEST LOCATION	LEVEL	XRF READING	UNITS <sup>3</sup>	CLASSIFICATION <sup>4</sup>	
44	M	Door	W	See Figure 13	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N	
45	CMU	Wall	W	See Figure 13	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N	
46	M	Door frame	W	See Figure 13	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N	
47	CMU	Wall	W	See Figure 13	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N	
48	CMU	Wall	W	See Figure 13	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N	
49	CMU	Wall	W	See Figure 13	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N	
50	CMU	Wall	W	See Figure 13	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N	
51	M	Window frame	W	See Figure 13	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N	
52	CMU	Wall	W	See Figure 13	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N	
53	C/M	Column	W	See Figure 13	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N	
54	CMU	Wall	W	See Figure 13	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N	
55	M	Door frame	W	See Figure 13	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N	
56	M	Door	W	See Figure 13	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N	
57	CMU	Wall	W	See Figure 13	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N	
58	CMU	Wall	W	See Figure 13	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N	
59	CMU	Wall	W	See Figure 13	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N	
60	CMU	Wall	W	See Figure 13	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N	
61	CMU	Wall	W	See Figure 13	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N	
62	W	Door frame	W	See Figure 13	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N	
63	M	Column	Red Primer	See Figure 13	1 <sup>st</sup>	0.01	mg/cm <sup>2</sup>	N	

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3) mg/cm<sup>2</sup> - milligrams/square centimeter

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**XRF LBP TESTING DATA SHEET**

PROJECT NAME/ADDRESS/UNIT NO.		Former Davie H.S. - B Building & Covered Walkways, Mocksville, NC		PROJECT NO.	2017 - 11 - 118		DATE	17 November 2017	
XRF MODEL/SERIAL NO.		INNOVX LBP 4000 #11916		INSPECTOR NAME/NO. DeWitt Whitten, NCRA 220118					
SAMPLE #	SUBSTRATE <sup>1</sup>	COMPONENT	COLOR <sup>2</sup>	TEST LOCATION	LEVEL	XRF READING	UNITS <sup>3</sup>	SIGNATURE <i>DeWitt Whitten</i>	
64	M	Beam	Red Primer	See Figure 13	1 <sup>st</sup>	0.03	mg/cm <sup>2</sup>	N	
65	M	Bar joist	Red Primer	See Figure 13	1 <sup>st</sup>	0.01	mg/cm <sup>2</sup>	N	
66	M	Column	Red Primer	See Figure 13	1 <sup>st</sup>	0.03	mg/cm <sup>2</sup>	N	
67	M	Beam	Red Primer	See Figure 13	1 <sup>st</sup>	0.01	mg/cm <sup>2</sup>	N	
68	M	Bar joist	Red Primer	See Figure 13	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N	
69	CMU	Wall	Bk	See Figure 13	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N	
70	M	Door frame	W	See Figure 13	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N	
71	M	Door	B	See Figure 13	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N	
72	CMU	Wall	G	See Figure 13	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N	
73	M	Door frame	W	See Figure 13	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N	
74	CMU	Wall	B	See Figure 13	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N	
75	CMU	Wall	Y	See Figure 13	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N	
76	M	Door frame	W	See Figure 13	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N	
77	CMU	Wall	W	See Figure 13	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N	
78	DW	Wall	B	See Figure 13	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N	
79	CMU	Wall	G	See Figure 13	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N	
80	CMU	Wall	W	See Figure 13	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N	
81	CMU	Wall	W	See Figure 13	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N	
82	M	Door	W	See Figure 13	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N	
83	M	Door frame	W	See Figure 13	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N	

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Bk - Black  
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3) mg/cm<sup>2</sup> - milligrams/square centimeter

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**XRF LBP TESTING DATA SHEET**

PROJECT NAME/ADDRESS/UNIT NO.		Former Davie H.S. – B Building & Covered Walkways, Mocksville, NC		PROJECT NO.	2017 – 11 – 118		DATE	17 November 2017	
XRF MODEL/SERIAL NO.		INNOVX LBP 4000 #11916		INSPECTOR NAME/NO.		DeWitt Whitten, NCRA 220118		SIGNATURE	
SAMPLE #	SUBSTRATE <sup>1</sup>	COMPONENT	COLOR <sup>2</sup>	TEST LOCATION	LEVEL	XRF READING	UNITS <sup>3</sup>	CLASSIFICATION <sup>4</sup>	
84	CMU	Wall	G	See Figure 13	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N	
85	M	Door	B	See Figure 13	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N	
86	M	Door frame	B	See Figure 13	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N	
87	M	Door	B	See Figure 13	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N	
88	M	Door frame	B	See Figure 13	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N	
89	M	Door frame	B	See Figure 13	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N	
90	M	Door	B	See Figure 13	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N	
91	M	Vent	B	See Figure 13	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N	
92	M	Door	T/Br	See Figure 13	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N	
93	M	Door frame	B	See Figure 13	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N	
94	M	Door	B	See Figure 13	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N	
95	M	Door frame	B	See Figure 13	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N	
96	M	Beam	B	See Figure 13	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N	
97	M	Beam	B	See Figure 12	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N	
98	M	Siding	B	See Figure 12	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N	
99	M	Siding	B	See Figure 12	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N	
100	M	Siding	B	See Figure 12	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N	
101	M	Siding	B	See Figure 12	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N	
102	M	Decking	W	See Figure 12	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N	
103	M	Decking	W	See Figure 12	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N	

1) M – metal  
W – wood  
DW – drywall  
B – Brick  
C – Concrete  
CMU – Concrete Masonry Unit  
P – Plaster

2) W – White  
B – Blue  
Y – Yellow  
Bk – Black  
Gr – Gray  
O – Orange  
Pr – Purple

3) mg/cm<sup>2</sup> – milligrams/square centimeter

4) N – Negative  
P – Positive



**XRF LBP TESTING DATA SHEET**

PROJECT NAME/ADDRESS/UNIT NO.		Former Davie H.S. – B Building & Covered Walkways, Mocksville, NC		PROJECT NO.	2017 – 11 – 118		DATE	17 November 2017	
XRF MODEL/SERIAL NO.		INNOVX LBP 4000 #11916		INSPECTOR NAME/NO.		DeWitt Whitten, NCRA 220118		SIGNATURE	
SAMPLE #	SUBSTRATE <sup>1</sup>	COMPONENT	COLOR <sup>2</sup>	TEST LOCATION	LEVEL	XRF READING	UNITS <sup>3</sup>	CLASSIFICATION <sup>4</sup>	
104	M	Column	B	See Figure 12	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N	
105	M	Column	B	See Figure 12	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N	
106	M	Column	B	See Figure 12	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N	
107	M	Column	O	See Figure 13	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N	
108	M	Beam	O	See Figure 13	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N	
109	M	Beam	O	See Figure 13	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N	
110	M	Decking	O	See Figure 13	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N	
111	M	Column	O	See Figure 13	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N	
112	M	Beam	O	See Figure 13	1 <sup>st</sup>	0.01	mg/cm <sup>2</sup>	N	
113	M	Beam	O	See Figure 13	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N	
114	M	Decking	O	See Figure 13	1 <sup>st</sup>	0.01	mg/cm <sup>2</sup>	N	
115	M	Column	O	See Figure 13	1 <sup>st</sup>	0.03	mg/cm <sup>2</sup>	N	
116	M	Beam	O	See Figure 13	1 <sup>st</sup>	0.02	mg/cm <sup>2</sup>	N	
117	M	Beam	O	See Figure 13	1 <sup>st</sup>	0.01	mg/cm <sup>2</sup>	N	
118	M	Decking	O	See Figure 13	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N	
119	M	Column	O	See Figure 13	1 <sup>st</sup>	0.00	mg/cm <sup>2</sup>	N	
120	M	Beam	O	See Figure 13	1 <sup>st</sup>	0.12	mg/cm <sup>2</sup>	N	
121	M	Beam	O	See Figure 13	1 <sup>st</sup>	0.04	mg/cm <sup>2</sup>	N	
122	M	Decking	O	See Figure 13	1 <sup>st</sup>	0.20	mg/cm <sup>2</sup>	N	
123	M	Column	O	See Figure 13	1 <sup>st</sup>	0.15	mg/cm <sup>2</sup>	N	

- 1) M – metal  
W – wood  
DW – drywall  
B – Brick  
C – Concrete  
CMU – Concrete Masonry Unit  
P – Plaster

- 2) W- White  
B – Blue  
Y – Yellow  
Bk – Black  
Gr – Gray  
O – Orange  
Pr – Purple

- R – Red  
G – Green  
T – Tan  
Br – Brown  
OW – Off-white  
P – Pink  
C – Clear

3) mg/cm<sup>2</sup> – milligrams/square centimeter

4) N – Negative  
P – Positive





**APPENDIX 4**  
**SUMMARY TABLE OF PAINT CHIP SAMPLING**  
**FOR TOTAL AND TCLP RCRA METALS**



**SUMMARY TABLE OF PAINT CHIP SAMPLING FOR TOTAL RCRA METALS**

SAMPLE #	BLDG	LOCATION	COMPONENT	LABORATORY RESULTS – TOTAL RCRA METALS							
				ARSENIC	BIARIUM	CADMIUM	CHROMIUM	LEAD	MERCURY	SELENIUM	SILVER
PS-1	B	Rm B-3	Wall	BRL	3600	BRL	BRL	BRL	0.30	BRL	BRL
PS-2	B	Rm B-3	Wall	BRL	4700	BRL	BRL	BRL	0.27	BRL	BRL
PS-3	B	Rm B-3	Wall	BRL	1300	BRL	BRL	BRL	0.21	BRL	BRL
PS-4	B	Rm B-4	Wall	BRL	3200	BRL	BRL	220	0.12	BRL	BRL
PS-5	B	AP Office	Wall	BRL	3600	BRL	BRL	BRL	0.43	BRL	BRL
PS-6	B	AP Office	Wall	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
PS-7	Cafeteria	Vestibule	Wall	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
PS-8	Cafeteria	Vestibule	Wall	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
PS-9	Cafeteria	Vestibule	Wall	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
PS-10	Cafeteria	Vestibule	Wall	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
PS-11	Cafeteria	Restroom Entry	Wall	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
<b>CURRENT REGULATORY CONCENTRATIONS</b>				0.68	3,000	140	24,000	400	1.9	78	78
<b>GW SOIL GOALS</b>				5.8	580	3	360,000	270	1.0	2.1	3.4

NOTES: 1) All units in milligrams per kilograms (mg/kg)  
 2) Numbers in RED exceed the total RCRA Metals Residential allowable concentration  
 3) Numbers in BLUE exceed the total RCRA Metals Groundwater allowable concentration

**SUMMARY TABLE OF PAINT CHIP SAMPLING FOR TCLP RCRA METALS**

SAMPLE #	BLDG	LOCATION	COMPONENT	LABORATORY RESULTS – TOTAL RCRA METALS							
				ARSENIC	BIARIUM	CADMIUM	CHROMIUM	LEAD	MERCURY	SELENIUM	SILVER
PS-2A	B	Rm B-3	Wall	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
<b>CURRENT REGULATORY CONCENTRATIONS</b>				0.010	0.700	0.002	0.010	0.015	0.001	0.020	0.020
<b>TCLP MCC for HAZARDOUS WASTE</b>				5.0	100.0	1.0	5.0	5.0	0.2	1.0	5.0

NOTES: 1) All units in milligrams per liter (mg/L)  
 2) BRL – Below Reporting Limit  
 3) MCC – Maximum Contaminant Concentration (if concentrations exceed MCC values, material is classified as a hazardous waste)



**APPENDIX 5**  
**LABORATORY ANALYSIS OF PAINTED MASONRY MATERIALS**  
**CHAIN OF CUSTODY FORMS**





Full-Service Analytical & Environmental Solutions

NC Certification No. 402  
NC Drinking Water Cert No. 37735  
SC Certification No. 99012

# Case Narrative

11/20/2017

ACES-Allied Consulting & Envi. Services, LLC  
DeWitt Whitten  
P. O. Box 2426  
Shelby, NC 28151

Project: Davie County High School

Lab Submittal Date: 11/08/2017  
Prism Work Order: 7110148

This data package contains the analytical results for the project identified above and includes a Case Narrative, Sample Results and Chain of Custody. Unless otherwise noted, all samples were received in acceptable condition and processed according to the referenced methods.

Data qualifiers are flagged individually on each sample. A key reference for the data qualifiers appears at the end of this case narrative.

Please call if you have any questions relating to this analytical report.

Respectfully,

**PRISM LABORATORIES, INC.**

Angela D. Overcash  
VP Laboratory Services

Reviewed By Angela D. Overcash  
VP Laboratory Services

### Data Qualifiers Key Reference:

BRL Below Reporting Limit

MDL Method Detection Limit

RPD Relative Percent Difference

\* Results reported to the reporting limit. All other results are reported to the MDL with values between MDL and reporting limit indicated with a J.

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449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543  
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409

Client Sample ID	Lab Sample ID	Matrix	Date Sampled	Date Received
PS-1	7110148-01	Paint Chips	11/08/17	11/08/17
PS-2	7110148-02	Paint Chips	11/08/17	11/08/17
PS-3	7110148-03	Paint Chips	11/08/17	11/08/17
PS-4	7110148-04	Paint Chips	11/08/17	11/08/17
PS-5	7110148-05	Paint Chips	11/08/17	11/08/17
PS-6	7110148-06	Paint Chips	11/08/17	11/08/17
PS-7	7110148-07	Paint Chips	11/08/17	11/08/17
PS-8	7110148-08	Paint Chips	11/08/17	11/08/17
PS-9	7110148-09	Paint Chips	11/08/17	11/08/17
PS-10	7110148-10	Paint Chips	11/08/17	11/08/17
PS-11	7110148-11	Paint Chips	11/08/17	11/08/17

Samples were received at 21.1 degrees C. See case narrative for further information.

ACES-Allied Consulting & Envi. Services, LLC Project: Davie County High School  
 Attn: DeWitt Whitten  
 P. O. Box 2426  
 Shelby, NC 28151

Sample Matrix: Paint Chips

Client Sample ID: PS-1  
 Prism Sample ID: 7110148-01  
 Prism Work Order: 7110148  
 Time Collected: 11/08/17 11:23  
 Time Submitted: 11/08/17 14:08

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<b>Total Metals</b>									
Mercury	0.030	mg/kg	0.019	0.0018	1	*7471B	11/17/17 12:47	JAB	P7K0339
Arsenic	BRL	mg/kg	50	6.1	100	*6010D	11/16/17 1:45	JAB	P7K0356
Barium	3600	mg/kg	1000	15	100	*6010D	11/16/17 1:45	JAB	P7K0356
Cadmium	BRL	mg/kg	50	1.3	100	*6010D	11/16/17 1:45	JAB	P7K0356
Chromium	BRL	mg/kg	50	8.4	100	*6010D	11/16/17 1:45	JAB	P7K0356
Lead	BRL	mg/kg	50	9.3	100	*6010D	11/16/17 1:45	JAB	P7K0356
Selenium	BRL	mg/kg	100	24	100	*6010D	11/16/17 1:45	JAB	P7K0356
Silver	BRL	mg/kg	50	1.2	100	*6010D	11/16/17 1:45	JAB	P7K0356

ACES-Allied Consulting & Envi. Services, LLC Project: Davie County High School  
 Attn: DeWitt Whitten  
 P. O. Box 2426  
 Shelby, NC 28151

Sample Matrix: Paint Chips

Client Sample ID: PS-2  
 Prism Sample ID: 7110148-02  
 Prism Work Order: 7110148  
 Time Collected: 11/08/17 11:35  
 Time Submitted: 11/08/17 14:08

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<b>Total Metals</b>									
Mercury	0.27	mg/kg	0.021	0.0020	1	*7471B	11/17/17 13:01	JAB	P7K0339
Arsenic	BRL	mg/kg	50	6.1	100	*6010D	11/16/17 1:51	JAB	P7K0356
Barium	4700	mg/kg	1000	15	100	*6010D	11/16/17 1:51	JAB	P7K0356
Cadmium	BRL	mg/kg	50	1.3	100	*6010D	11/16/17 1:51	JAB	P7K0356
Chromium	BRL	mg/kg	50	8.4	100	*6010D	11/16/17 1:51	JAB	P7K0356
Lead	BRL	mg/kg	50	9.3	100	*6010D	11/16/17 1:51	JAB	P7K0356
Selenium	BRL	mg/kg	100	24	100	*6010D	11/16/17 1:51	JAB	P7K0356
Silver	BRL	mg/kg	50	1.2	100	*6010D	11/16/17 1:51	JAB	P7K0356

ACES-Allied Consulting & Envi. Services, LLC Project: Davie County High School  
 Attn: DeWitt Whitten  
 P. O. Box 2426  
 Shelby, NC 28151

Sample Matrix: Paint Chips

Client Sample ID: PS-3  
 Prism Sample ID: 7110148-03  
 Prism Work Order: 7110148  
 Time Collected: 11/08/17 11:45  
 Time Submitted: 11/08/17 14:08

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<b>Total Metals</b>									
Mercury	0.21	mg/kg	0.019	0.0018	1	*7471B	11/17/17 13:05	JAB	P7K0339
Arsenic	BRL	mg/kg	50	6.1	100	*6010D	11/16/17 1:58	JAB	P7K0356
Barium	1300	mg/kg	1000	15	100	*6010D	11/16/17 1:58	JAB	P7K0356
Cadmium	BRL	mg/kg	50	1.3	100	*6010D	11/16/17 1:58	JAB	P7K0356
Chromium	BRL	mg/kg	50	8.4	100	*6010D	11/16/17 1:58	JAB	P7K0356
Lead	BRL	mg/kg	50	9.3	100	*6010D	11/16/17 1:58	JAB	P7K0356
Selenium	BRL	mg/kg	100	24	100	*6010D	11/16/17 1:58	JAB	P7K0356
Silver	BRL	mg/kg	50	1.2	100	*6010D	11/16/17 1:58	JAB	P7K0356

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 Shelby, NC 28151

Sample Matrix: Paint Chips

Client Sample ID: PS-4  
 Prism Sample ID: 7110148-04  
 Prism Work Order: 7110148  
 Time Collected: 11/08/17 11:59  
 Time Submitted: 11/08/17 14:08

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<b>Total Metals</b>									
<b>Mercury</b>	<b>0.12</b>	<b>mg/kg</b>	<b>0.019</b>	<b>0.0018</b>	<b>1</b>	<b>*7471B</b>	<b>11/17/17 13:10</b>	<b>JAB</b>	<b>P7K0339</b>
Arsenic	BRL	mg/kg	50	6.1	100	*6010D	11/16/17 2:04	JAB	P7K0356
<b>Barium</b>	<b>3200</b>	<b>mg/kg</b>	<b>1000</b>	<b>15</b>	<b>100</b>	<b>*6010D</b>	<b>11/16/17 2:04</b>	<b>JAB</b>	<b>P7K0356</b>
Cadmium	BRL	mg/kg	50	1.3	100	*6010D	11/16/17 2:04	JAB	P7K0356
Chromium	BRL	mg/kg	50	8.4	100	*6010D	11/16/17 2:04	JAB	P7K0356
<b>Lead</b>	<b>220</b>	<b>mg/kg</b>	<b>50</b>	<b>9.3</b>	<b>100</b>	<b>*6010D</b>	<b>11/16/17 2:04</b>	<b>JAB</b>	<b>P7K0356</b>
Selenium	BRL	mg/kg	100	24	100	*6010D	11/16/17 2:04	JAB	P7K0356
Silver	BRL	mg/kg	50	1.2	100	*6010D	11/16/17 2:04	JAB	P7K0356

ACES-Allied Consulting & Envi. Services, LLC Project: Davie County High School  
 Attn: DeWitt Whitten  
 P. O. Box 2426  
 Shelby, NC 28151

Sample Matrix: Paint Chips

Client Sample ID: PS-5  
 Prism Sample ID: 7110148-05  
 Prism Work Order: 7110148  
 Time Collected: 11/08/17 12:15  
 Time Submitted: 11/08/17 14:08

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<b>Total Metals</b>									
Mercury	0.43	mg/kg	0.020	0.0019	1	*7471B	11/17/17 13:14	JAB	P7K0339
Arsenic	BRL	mg/kg	50	6.1	100	*6010D	11/16/17 2:10	JAB	P7K0356
Barium	3600	mg/kg	1000	15	100	*6010D	11/16/17 2:10	JAB	P7K0356
Cadmium	BRL	mg/kg	50	1.3	100	*6010D	11/16/17 2:10	JAB	P7K0356
Chromium	BRL	mg/kg	50	8.4	100	*6010D	11/16/17 2:10	JAB	P7K0356
Lead	BRL	mg/kg	50	9.3	100	*6010D	11/16/17 2:10	JAB	P7K0356
Selenium	BRL	mg/kg	100	24	100	*6010D	11/16/17 2:10	JAB	P7K0356
Silver	BRL	mg/kg	50	1.2	100	*6010D	11/16/17 2:10	JAB	P7K0356

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 Shelby, NC 28151

Sample Matrix: Paint Chips

Client Sample ID: PS-6  
 Prism Sample ID: 7110148-06  
 Prism Work Order: 7110148  
 Time Collected: 11/08/17 12:25  
 Time Submitted: 11/08/17 14:08

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<b>Total Metals</b>									
Mercury	BRL	mg/kg	0.020	0.0019	1	*7471B	11/17/17 13:19	JAB	P7K0339
Arsenic	BRL	mg/kg	50	6.1	100	*6010D	11/16/17 2:30	JAB	P7K0356
Barium	BRL	mg/kg	1000	15	100	*6010D	11/16/17 2:30	JAB	P7K0356
Cadmium	BRL	mg/kg	50	1.3	100	*6010D	11/16/17 2:30	JAB	P7K0356
Chromium	BRL	mg/kg	50	8.4	100	*6010D	11/16/17 2:30	JAB	P7K0356
Lead	BRL	mg/kg	50	9.3	100	*6010D	11/16/17 2:30	JAB	P7K0356
Selenium	BRL	mg/kg	100	24	100	*6010D	11/16/17 2:30	JAB	P7K0356
Silver	BRL	mg/kg	50	1.2	100	*6010D	11/16/17 2:30	JAB	P7K0356



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 Shelby, NC 28151

Sample Matrix: Paint Chips

Client Sample ID: PS-7  
 Prism Sample ID: 7110148-07  
 Prism Work Order: 7110148  
 Time Collected: 11/08/17 09:40  
 Time Submitted: 11/08/17 14:08

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<b>Total Metals</b>									
Mercury	BRL	mg/kg	0.020	0.0019	1	*7471B	11/17/17 13:23	JAB	P7K0339
Arsenic	BRL	mg/kg	50	6.1	100	*6010D	11/16/17 2:36	JAB	P7K0356
Barium	BRL	mg/kg	1000	15	100	*6010D	11/16/17 2:36	JAB	P7K0356
Cadmium	BRL	mg/kg	50	1.3	100	*6010D	11/16/17 2:36	JAB	P7K0356
Chromium	BRL	mg/kg	50	8.4	100	*6010D	11/16/17 2:36	JAB	P7K0356
Lead	BRL	mg/kg	50	9.3	100	*6010D	11/16/17 2:36	JAB	P7K0356
Selenium	BRL	mg/kg	100	24	100	*6010D	11/16/17 2:36	JAB	P7K0356
Silver	BRL	mg/kg	50	1.2	100	*6010D	11/16/17 2:36	JAB	P7K0356

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 Attn: DeWitt Whitten  
 P. O. Box 2426  
 Shelby, NC 28151

Sample Matrix: Paint Chips

Client Sample ID: PS-8  
 Prism Sample ID: 7110148-08  
 Prism Work Order: 7110148  
 Time Collected: 11/08/17 10:05  
 Time Submitted: 11/08/17 14:08

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<b>Total Metals</b>									
Mercury	BRL	mg/kg	0.021	0.0020	1	*7471B	11/17/17 13:37	JAB	P7K0339
Arsenic	BRL	mg/kg	50	6.1	100	*6010D	11/16/17 2:44	JAB	P7K0356
Barium	BRL	mg/kg	1000	15	100	*6010D	11/16/17 2:44	JAB	P7K0356
Cadmium	BRL	mg/kg	50	1.3	100	*6010D	11/16/17 2:44	JAB	P7K0356
Chromium	BRL	mg/kg	50	8.4	100	*6010D	11/16/17 2:44	JAB	P7K0356
Lead	BRL	mg/kg	50	9.3	100	*6010D	11/16/17 2:44	JAB	P7K0356
Selenium	BRL	mg/kg	100	24	100	*6010D	11/16/17 2:44	JAB	P7K0356
Silver	BRL	mg/kg	50	1.2	100	*6010D	11/16/17 2:44	JAB	P7K0356

ACES-Allied Consulting & Envi. Services, LLC Project: Davie County High School  
 Attn: DeWitt Whitten  
 P. O. Box 2426  
 Shelby, NC 28151

Sample Matrix: Paint Chips

Client Sample ID: PS-9  
 Prism Sample ID: 7110148-09  
 Prism Work Order: 7110148  
 Time Collected: 11/08/17 10:30  
 Time Submitted: 11/08/17 14:08

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<b>Total Metals</b>									
Mercury	BRL	mg/kg	0.020	0.0019	1	*7471B	11/17/17 13:41	JAB	P7K0339
Arsenic	BRL	mg/kg	50	6.1	100	*6010D	11/16/17 2:53	JAB	P7K0356
Barium	BRL	mg/kg	1000	15	100	*6010D	11/16/17 2:53	JAB	P7K0356
Cadmium	BRL	mg/kg	50	1.3	100	*6010D	11/16/17 2:53	JAB	P7K0356
Chromium	BRL	mg/kg	50	8.4	100	*6010D	11/16/17 2:53	JAB	P7K0356
Lead	BRL	mg/kg	50	9.3	100	*6010D	11/16/17 2:53	JAB	P7K0356
Selenium	BRL	mg/kg	100	24	100	*6010D	11/16/17 2:53	JAB	P7K0356
Silver	BRL	mg/kg	50	1.2	100	*6010D	11/16/17 2:53	JAB	P7K0356

ACES-Allied Consulting & Envi. Services, LLC Project: Davie County High School  
 Attn: DeWitt Whitten  
 P. O. Box 2426  
 Shelby, NC 28151

Sample Matrix: Paint Chips

Client Sample ID: PS-10  
 Prism Sample ID: 7110148-10  
 Prism Work Order: 7110148  
 Time Collected: 11/08/17 10:19  
 Time Submitted: 11/08/17 14:08

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<b>Total Metals</b>									
Mercury	BRL	mg/kg	0.018	0.0018	1	*7471B	11/17/17 13:46	JAB	P7K0339
Arsenic	BRL	mg/kg	50	6.1	100	*6010D	11/16/17 3:01	JAB	P7K0356
Barium	BRL	mg/kg	1000	15	100	*6010D	11/16/17 3:01	JAB	P7K0356
Cadmium	BRL	mg/kg	50	1.3	100	*6010D	11/16/17 3:01	JAB	P7K0356
Chromium	BRL	mg/kg	50	8.4	100	*6010D	11/16/17 3:01	JAB	P7K0356
Lead	BRL	mg/kg	50	9.3	100	*6010D	11/16/17 3:01	JAB	P7K0356
Selenium	BRL	mg/kg	100	24	100	*6010D	11/16/17 3:01	JAB	P7K0356
Silver	BRL	mg/kg	50	1.2	100	*6010D	11/16/17 3:01	JAB	P7K0356

ACES-Allied Consulting & Envi. Services, LLC Project: Davie County High School  
 Attn: DeWitt Whitten  
 P. O. Box 2426  
 Shelby, NC 28151

Sample Matrix: Paint Chips

Client Sample ID: PS-11  
 Prism Sample ID: 7110148-11  
 Prism Work Order: 7110148  
 Time Collected: 11/08/17 10:49  
 Time Submitted: 11/08/17 14:08

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<b>Total Metals</b>									
Mercury	BRL	mg/kg	0.021	0.0020	1	*7471B	11/17/17 13:50	JAB	P7K0339
Arsenic	BRL	mg/kg	50	6.1	100	*6010D	11/16/17 3:09	JAB	P7K0356
Barium	BRL	mg/kg	1000	15	100	*6010D	11/16/17 3:09	JAB	P7K0356
Cadmium	BRL	mg/kg	50	1.3	100	*6010D	11/16/17 3:09	JAB	P7K0356
Chromium	BRL	mg/kg	50	8.4	100	*6010D	11/16/17 3:09	JAB	P7K0356
Lead	BRL	mg/kg	50	9.3	100	*6010D	11/16/17 3:09	JAB	P7K0356
Selenium	BRL	mg/kg	100	24	100	*6010D	11/16/17 3:09	JAB	P7K0356
Silver	BRL	mg/kg	50	1.2	100	*6010D	11/16/17 3:09	JAB	P7K0356

## Sample Extraction Data

### Prep Method: 3050B

Lab Number	Batch	Initial	Final	Date/Time
7110148-01	P7K0356	1 g	50 mL	11/15/17 9:35
7110148-02	P7K0356	1 g	50 mL	11/15/17 9:35
7110148-03	P7K0356	1 g	50 mL	11/15/17 9:35
7110148-04	P7K0356	1 g	50 mL	11/15/17 9:35
7110148-05	P7K0356	1 g	50 mL	11/15/17 9:35
7110148-06	P7K0356	1 g	50 mL	11/15/17 9:35
7110148-07	P7K0356	1 g	50 mL	11/15/17 9:35
7110148-08	P7K0356	1 g	50 mL	11/15/17 9:35
7110148-09	P7K0356	1 g	50 mL	11/15/17 9:35
7110148-10	P7K0356	1 g	50 mL	11/15/17 9:35
7110148-11	P7K0356	1 g	50 mL	11/15/17 9:35

### Prep Method: 7471B

Lab Number	Batch	Initial	Final	Date/Time
7110148-01	P7K0339	0.64 g	50 mL	11/17/17 8:55
7110148-02	P7K0339	0.57 g	50 mL	11/17/17 8:55
7110148-03	P7K0339	0.64 g	50 mL	11/17/17 8:55
7110148-04	P7K0339	0.63 g	50 mL	11/17/17 8:55
7110148-05	P7K0339	0.6 g	50 mL	11/17/17 8:55
7110148-06	P7K0339	0.59 g	50 mL	11/17/17 8:55
7110148-07	P7K0339	0.59 g	50 mL	11/17/17 8:55
7110148-08	P7K0339	0.57 g	50 mL	11/17/17 8:55
7110148-09	P7K0339	0.61 g	50 mL	11/17/17 8:55
7110148-10	P7K0339	0.65 g	50 mL	11/17/17 8:55
7110148-11	P7K0339	0.57 g	50 mL	11/17/17 8:55

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**CHAIN OF CUSTODY RECORD**

PAGE 1 OF 1 QUOTE # TO ENSURE PROPER BILLING:

Project Name: Dave City H.S. - B.B. & S. Carter  
 Short Hold Analysis: (Yes) (NO) NO **UST Project** (Yes) (NO) NO  
 \*Please ATTACH any project specific reporting (QC LEVEL I III III-IV) provisions and/or QC Requirements

Invoice To: ACES  
 Address: PO Box 2424  
Shelby, NC 28151

Purchase Order No./Billing Reference: 2017-11-118

Requested Due Date  1 Day  2 Days  3 Days  4 Days  5 Days  
 "Working Days"  6-9 Days  Standard 10 days  Rush Work Must Be Pre-Approved

Samples received after 14:00 will be processed next business day.  
 Turnaround time is based on business days, excluding weekends and holidays.  
 (SEE REVERSE FOR TERMS & CONDITIONS REGARDING SERVICES RENDERED BY PRISM LABORATORIES, INC. TO CLIENT)

**LAB USE ONLY**  
 YES NO N/A  
 Samples INTACT upon arrival?     
 Received ON WET ICE?     
 PROPER PRESERVATIVES indicated?     
 Received WITHIN HOLDING TIMES?     
 CUSTODY SEALS INTACT?     
 VOLATILES rec'd W/OUT HEADSPACE?     
 PROPER CONTAINERS used?     
 TEMP.: Therm ID: 7 Observed: 21.6 °C / Corr: 21.1 °C

**TO BE FILLED IN BY CLIENT/SAMPLING PERSONNEL**  
 Certification: NELAC Dod FL NC  
 SC OTHER N/A  
 Water Chlorinated: YES NO  
 Sample Iced Upon Collection: YES NO

Client Company Name: ACES  
 Report To/Contact Name: Dewitt Whittan  
 Reporting Address: PO Box 2424  
Shelby, NC 28151  
 Phone: 704 529 6364 Fax (Yes) (No): NO  
 Email Address: dwhittan@aces-env.com  
 EDD Type: PDF  Excel  Other   
 Site Location Name: Dave City H.S.  
 Site Location Physical Address: 2005 S. Blalock Rd

CLIENT SAMPLE DESCRIPTION	DATE COLLECTED	TIME COLLECTED MILITARY HOURS	MATRIX (SOIL, WATER OR SLUDGE)	SAMPLE CONTAINER			PRESERVATIVES	ANALYSIS REQUESTED	REMARKS	PRISM LAB ID NO.
				*TYPE SEE BELOW	NO.	SIZE				
P5-1	8 Nov 17	1123	PAINT	BOBBLE			NONE	TO THE RIGHT METHOD		01
P5-2		1135								02
P5-3		1145								03
P5-4		1157								04
P5-5		1215								05
P5-6		1225								06
P5-7		0640								07
P5-8		1005								08
P5-9		1030								09
P5-10		1019								10
P5-11		1047								11

Sampler's Signature: [Signature] Sampled By (Print Name): Dewitt Whittan Affiliation: ACES  
 Upon relinquishing, this Chain of Custody is your authorization for Prism to proceed with the analyses as requested above. Any changes must be submitted in writing to the Prism Project Manager. There will be charges for any changes after analyses have been initialized.  
 Relinquished By: (Signature) [Signature] Received By: (Signature) [Signature] Date: 11-8-17 Military/Hours: 1408  
 Relinquished By: (Signature) [Signature] Received By: (Signature) [Signature] Date: 11-8-17 Military/Hours: 1408  
 Relinquished By: (Signature) [Signature] Received By: (Signature) [Signature] Date: 11-8-17 Military/Hours: 1408

Method of Shipment: NOTE: ALL SAMPLE COOLERS SHOULD BE TAPED SHUT WITH CUSTODY SEALS FOR TRANSPORTATION TO THE LABORATORY. SAMPLES ARE NOT ACCEPTED AND VERIFIED AGAINST COC UNTIL RECEIVED AT THE LABORATORY.  
 Fed Ex  UPS  Hand-delivered  Prism Field Service  Other  
 NPDES:  NC  SC  NC  SC  NC  SC  NC  SC  
 GROUNDWATER:  NC  SC  NC  SC  
 DRINKING WATER:  NC  SC  NC  SC  
 SOLID WASTE:  NC  SC  NC  SC  
 RCRA:  NC  SC  NC  SC  
 CERCLA  NC  SC  
 LANDFILL  NC  SC  
 OTHER:  NC  SC  
 \*CONTAINER TYPE CODES: A = Amber C = Clear G = Glass P = Plastic; TL = Teflon-Lined Cap VOA = Volatile Organics Analysis (Zero Head Space)

Additional Comments:  
 PRESS DOWN FIRMLY - 3 COPIES  
 PRISM USE ONLY  
 Site Arrival Time:  
 Site Departure Time:  
 Field Tech Fee:  
 Mileage:  
 SEE REVERSE FOR TERMS & CONDITIONS  
 ORIGINAL



Full-Service Analytical &  
Environmental Solutions

NC Certification No. 402  
NC Drinking Water Cert No. 37735  
SC Certification No. 99012

## Case Narrative

12/04/2017

ACES-Allied Consulting & Envi. Services, LLC  
DeWitt Whitten  
P. O. Box 2426  
Shelby, NC 28151

Project: Davie County High School

Lab Submittal Date: 11/21/2017  
Prism Work Order: 7110428

This data package contains the analytical results for the project identified above and includes a Case Narrative, Sample Results and Chain of Custody. Unless otherwise noted, all samples were received in acceptable condition and processed according to the referenced methods.

Data qualifiers are flagged individually on each sample. A key reference for the data qualifiers appears at the end of this case narrative.

Please call if you have any questions relating to this analytical report.

Respectfully,

**PRISM LABORATORIES, INC.**

Angela D. Overcash  
VP Laboratory Services

Reviewed By Terri W. Cole For Angela D. Overcash  
Project Manager

### Data Qualifiers Key Reference:

BRL Below Reporting Limit

MDL Method Detection Limit

RPD Relative Percent Difference

\* Results reported to the reporting limit. All other results are reported to the MDL with values between MDL and reporting limit indicated with a J.

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449 Springbrook Road - P.O. Box 240543 - Charlotte, NC 28224-0543  
Phone: 704/529-6364 - Toll Free Number: 1-800/529-6364 - Fax: 704/525-0409



Client Sample ID	Lab Sample ID	Matrix	Date Sampled	Date Received
PS-2A	7110428-01	Solid	11/21/17	11/21/17

Samples were received at 20.8 degrees C. See case narrative for further information.

ACES-Allied Consulting & Envi. Services, LLC Project: Davie County High School  
 Attn: DeWitt Whitten  
 P. O. Box 2426  
 Shelby, NC 28151

Sample Matrix: Solid

Client Sample ID: PS-2A  
 Prism Sample ID: 7110428-01  
 Prism Work Order: 7110428  
 Time Collected: 11/21/17 08:00  
 Time Submitted: 11/21/17 12:05

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
<b>TCLP Extraction by EPA 1311</b>									
TCLP Extraction	Complete	N/A			1	*1311	12/1/17 7:00	JAB	P7K0557
<b>TCLP Metals</b>									
Mercury	BRL	mg/L	0.010	0.000030	1	*7470A	12/1/17 12:41	JAB	P7L0007
Arsenic	BRL	mg/L	0.050	0.016	1	*6010D	12/1/17 16:59	JAB	P7L0009
Barium	BRL	mg/L	5.0	0.0040	1	*6010D	12/1/17 16:59	JAB	P7L0009
Cadmium	BRL	mg/L	0.025	0.00075	1	*6010D	12/1/17 16:59	JAB	P7L0009
Chromium	BRL	mg/L	0.25	0.0018	1	*6010D	12/1/17 16:59	JAB	P7L0009
Lead	BRL	mg/L	0.050	0.0040	1	*6010D	12/1/17 16:59	JAB	P7L0009
Selenium	BRL	mg/L	0.10	0.028	1	*6010D	12/1/17 16:59	JAB	P7L0009
Silver	BRL	mg/L	0.25	0.0020	1	*6010D	12/1/17 16:59	JAB	P7L0009

### Sample Extraction Data

**Prep Method: 1311**

Lab Number	Batch	Initial	Final	Date/Time
7110428-01	P7K0557	100 g	2000 mL	11/30/17 14:00

**Prep Method: 3010A**

Lab Number	Batch	Initial	Final	Date/Time
7110428-01	P7L0009	10 mL	50 mL	12/01/17 7:45

**Prep Method: 7470A**

Lab Number	Batch	Initial	Final	Date/Time
7110428-01	P7L0007	20 mL	30 mL	12/01/17 7:20





**APPENDIX 6**  
**LABORATORY ANALYSIS OF CAULK**  
**CHAIN OF CUSTODY FORMS**



Full-Service Analytical & Environmental Solutions

NC Certification No. 402  
NC Drinking Water Cert No. 37735  
SC Certification No. 99012

# Case Narrative

12/01/2017

ACES-Allied Consulting & Envi. Services, LLC  
DeWitt Whitten  
P. O. Box 2426  
Shelby, NC 28151

Project: Davie County High School

Lab Submittal Date: 11/10/2017  
Prism Work Order: 7110192

This data package contains the analytical results for the project identified above and includes a Case Narrative, Sample Results and Chain of Custody. Unless otherwise noted, all samples were received in acceptable condition and processed according to the referenced methods.

Data qualifiers are flagged individually on each sample. A key reference for the data qualifiers appears at the end of this case narrative.

Please call if you have any questions relating to this analytical report.

Respectfully,

**PRISM LABORATORIES, INC.**

Angela D. Overcash  
VP Laboratory Services

Reviewed By Angela D. Overcash  
VP Laboratory Services

### Data Qualifiers Key Reference:

- ECV Ending CCV above the QC limit. Analyte not detected down to the MDL. No further action taken.
- BRL Below Reporting Limit
- MDL Method Detection Limit
- RPD Relative Percent Difference
- \* Results reported to the reporting limit. All other results are reported to the MDL with values between MDL and reporting limit indicated with a J.

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Client Sample ID	Lab Sample ID	Matrix	Date Sampled	Date Received
C-1	7110192-01	Solid	11/09/17	11/10/17
C-2	7110192-02	Solid	11/09/17	11/10/17
C-3	7110192-03	Solid	11/09/17	11/10/17

Samples were received at 21.7 degrees C. See case narrative for further information.

ACES-Allied Consulting & Envi. Services, LLC Project: Davie County High School  
 Attn: DeWitt Whitten  
 P. O. Box 2426  
 Shelby, NC 28151

Sample Matrix: Solid

Client Sample ID: C-1  
 Prism Sample ID: 7110192-01  
 Prism Work Order: 7110192  
 Time Collected: 11/09/17 00:00  
 Time Submitted: 11/10/17 10:34

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
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**General Chemistry Parameters**

% Solids	100	% by Weight	0.100	0.100	1	*SM2540 G	11/15/17 16:20	JLB	P7K0314
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**Polychlorinated Biphenyls (PCBs) by GC/ECD**

Aroclor 1016	BRL	mg/kg dry	0.28	0.030	1	*8082A	11/29/17 14:05	JMC	P7K0482
Aroclor 1221	BRL	mg/kg dry	0.55	0.22	1	*8082A	11/29/17 14:05	JMC	P7K0482
Aroclor 1232	BRL	mg/kg dry	0.55	0.072	1	*8082A	11/29/17 14:05	JMC	P7K0482
Aroclor 1242	BRL	mg/kg dry	0.28	0.074	1	*8082A	11/29/17 14:05	JMC	P7K0482
Aroclor 1248	BRL	mg/kg dry	0.28	0.055	1	*8082A	11/29/17 14:05	JMC	P7K0482
Aroclor 1254	BRL	mg/kg dry	0.28	0.069	1	*8082A	11/29/17 14:05	JMC	P7K0482
Aroclor 1260	BRL <sub>ECV</sub>	mg/kg dry	0.28	0.035	1	*8082A	11/29/17 14:05	JMC	P7K0482

Surrogate	Recovery	Control Limits
Tetrachloro-m-xylene	88 %	36-182
Decachlorobiphenyl	99 %	34-182



ACES-Allied Consulting & Envi. Services, LLC Project: Davie County High School  
 Attn: DeWitt Whitten  
 P. O. Box 2426  
 Shelby, NC 28151

Sample Matrix: Solid

Client Sample ID: C-2  
 Prism Sample ID: 7110192-02  
 Prism Work Order: 7110192  
 Time Collected: 11/09/17 00:00  
 Time Submitted: 11/10/17 10:34

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
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**General Chemistry Parameters**

% Solids	100	% by Weight	0.100	0.100	1	*SM2540 G	11/15/17 16:20	JLB	P7K0314
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**Polychlorinated Biphenyls (PCBs) by GC/ECD**

Aroclor 1016	BRL	mg/kg dry	0.57	0.062	1	*8082A	11/29/17 14:47	JMC	P7K0482
Aroclor 1221	BRL	mg/kg dry	1.1	0.45	1	*8082A	11/29/17 14:47	JMC	P7K0482
Aroclor 1232	BRL	mg/kg dry	1.1	0.15	1	*8082A	11/29/17 14:47	JMC	P7K0482
Aroclor 1242	BRL	mg/kg dry	0.57	0.15	1	*8082A	11/29/17 14:47	JMC	P7K0482
Aroclor 1248	BRL	mg/kg dry	0.57	0.11	1	*8082A	11/29/17 14:47	JMC	P7K0482
Aroclor 1254	BRL	mg/kg dry	0.57	0.14	1	*8082A	11/29/17 14:47	JMC	P7K0482
Aroclor 1260	BRL ECV	mg/kg dry	0.57	0.072	1	*8082A	11/29/17 14:47	JMC	P7K0482

Surrogate	Recovery	Control Limits
Tetrachloro-m-xylene	74 %	36-182
Decachlorobiphenyl	117 %	34-182

ACES-Allied Consulting & Envi. Services, LLC Project: Davie County High School  
 Attn: DeWitt Whitten  
 P. O. Box 2426  
 Shelby, NC 28151

Sample Matrix: Solid

Client Sample ID: C-3  
 Prism Sample ID: 7110192-03  
 Prism Work Order: 7110192  
 Time Collected: 11/09/17 00:00  
 Time Submitted: 11/10/17 10:34

Parameter	Result	Units	Report Limit	MDL	Dilution Factor	Method	Analysis Date/Time	Analyst	Batch ID
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**General Chemistry Parameters**

% Solids	100	% by Weight	0.100	0.100	1	*SM2540 G	11/15/17 16:20	JLB	P7K0314
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**Polychlorinated Biphenyls (PCBs) by GC/ECD**

Aroclor 1016	BRL	mg/kg dry	2.3	0.25	1	*8082A	11/29/17 15:30	JMC	P7K0482
Aroclor 1221	BRL	mg/kg dry	4.6	1.8	1	*8082A	11/29/17 15:30	JMC	P7K0482
Aroclor 1232	BRL	mg/kg dry	4.6	0.60	1	*8082A	11/29/17 15:30	JMC	P7K0482
Aroclor 1242	BRL	mg/kg dry	2.3	0.61	1	*8082A	11/29/17 15:30	JMC	P7K0482
Aroclor 1248	BRL	mg/kg dry	2.3	0.46	1	*8082A	11/29/17 15:30	JMC	P7K0482
Aroclor 1254	BRL	mg/kg dry	2.3	0.57	1	*8082A	11/29/17 15:30	JMC	P7K0482
Aroclor 1260	BRL ECV	mg/kg dry	2.3	0.29	1	*8082A	11/29/17 15:30	JMC	P7K0482

Surrogate	Recovery	Control Limits
Tetrachloro-m-xylene	73 %	36-182
Decachlorobiphenyl	99 %	34-182

## Sample Extraction Data

### Prep Method: Solids, Dry Weight

Lab Number	Batch	Initial	Final	Date/Time
7110192-01	P7K0314	30 g	30 g	11/15/17 16:20
7110192-02	P7K0314	30 g	30 g	11/15/17 16:20
7110192-03	P7K0314	30 g	30 g	11/15/17 16:20

### Prep Method: 3550C GC

Lab Number	Batch	Initial	Final	Date/Time
7110192-01	P7K0482	5.41 g	10 mL	11/27/17 12:45
7110192-02	P7K0482	2.64 g	10 mL	11/27/17 12:45
7110192-03	P7K0482	0.65 g	10 mL	11/27/17 12:45

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