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September 24, 2018

Project No. 631237084

Mr. James G. Bernier, P.E.

Territorial Director of Capital Projects & Facilities  
Division of Architectural Engineering  
Virgin Islands Department of Education (VIDE)

Re: Report of Project Monitoring – John Woodson Jr High School  
Rural Route 1 Kingshill  
St. Croix, US.V.I 00820

Dear Mr. Bernier:

Aptim Environmental & Infrastructure, Inc. (APTIM) has completed visual observations and air monitoring associated with the abatement of asbestos-containing floor tile and associated mastic within the John Woodson Jr. High School, located at Rural Route 1 Kingshill, St. Croix, USVI. The abatement was performed prior to scheduled renovations which would disturb these materials. This report presents our visual observations and the results of our air monitoring analyses.

APTIM appreciates the opportunity to serve as your asbestos consultant on this project. Please feel free to call us with any questions regarding the content of this report.

Sincerely,

A handwritten signature in black ink, appearing to read 'DMosher', written over a horizontal line.

David Mosher  
Environmental Project Manager

# 1 ASBESTOS ABATEMENT BACKGROUND

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As part of the planned renovations of the John Woodson Jr. High School campus, the Virgin Islands Department of Education (VIDE) requested that APTIM provide abatement oversight, onsite observations and air monitoring during the removal of identified asbestos-containing materials. Adcon Environmental Services, a licensed USVI abatement contractor, performed the abatement. Daily observation of work practices was performed by an APTIM representative to ensure adherence by the abatement contractor to the Asbestos Work Plan developed by APTIM and all applicable Federal EPA and OSHA regulations, to the most practicable extent.

After the abatement work was completed by the abatement contractor, a visual inspection of the work area was performed by the APTIM representative. The visual inspection was performed to determine the readiness of the work area for clearance sampling. Critical barriers remained in place in the work area until satisfactory visual or sampling clearance results were confirmed by APTIM. Phase Contrast Microscopy (PCM) was used to analyze clearance air samples in removal areas exceeding 160 square feet. Visual clearances only were performed for the remaining areas.

On August 27, 2018, the following materials were removed from the facility:

<b>Location</b>	<b>Material Description</b>	<b>Approximate Amount</b>
Limited areas throughout the school	FLOOR TILE AND MASTIC	702 SF

SF = square feet    LF = linear feet    EA = each

## 2 SUMMARY OF ABATEMENT OBSERVATIONS

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The abatement contractor's preparation of each work area was accomplished by placing critical barriers; setting up a decontamination station, and where applicable, establishing diminished air pressure within the work area using high efficiency particulate air (HEPA) filtered ventilating machines. Removal of the asbestos-containing materials was performed with the contractor's workers wearing full face, positive pressure air purifying respirators with P100 cartridges, and using HEPA vacuums and wet cleaning methods. Asbestos containing materials were placed in appropriately labeled 6-mil polyethylene bags for disposal. Bagged materials were double bagged for transport to the disposal site.

Following removal of the asbestos-containing materials, an inspection of the abatement area(s) was conducted by an APTIM representative for visual clearance to allow the contractor to proceed with encapsulation or lockdown. Manual cleaning was repeated, as necessary, until no visible dust or debris was present in the work area. Five final clearance samples were collected within each work area exceeding 160 SF. The sampling and subsequent analysis of the clearance samples were performed by a APTIM representative trained in accordance with NIOSH 582, "Sampling and Evaluation of Airborne Asbestos Dust in general accordance with NIOSH Method 7400 for Phase Contrast Microscopy (PCM). Results were reported in fibers per cubic centimeter ( $f/cm^3$ ), and were compared to the AHERA clearance criteria of less than 0.01  $f/cm^3$ , for each sample.

Table 1 contains a summary of the air samples and clearance samples collected during the project, including sample numbers, the types of samples, and the result for each sample. All clearance air samples collected following the abatement and analyzed were below 0.01  $f/cm^3$ .

The figure, located at the end of the report text, indicates the air sample locations.

## **QUALIFICATIONS OF THE REPORT**

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The services described in this report were performed consistent with generally accepted professional consulting principles and practices. No other warranty, express or implied, is made. These services were performed consistent with our client, Virgin Islands Department of Education, and this report is solely for the use and information of our client, unless otherwise noted. Any reliance of this report by a third party is at such party's sole risk.

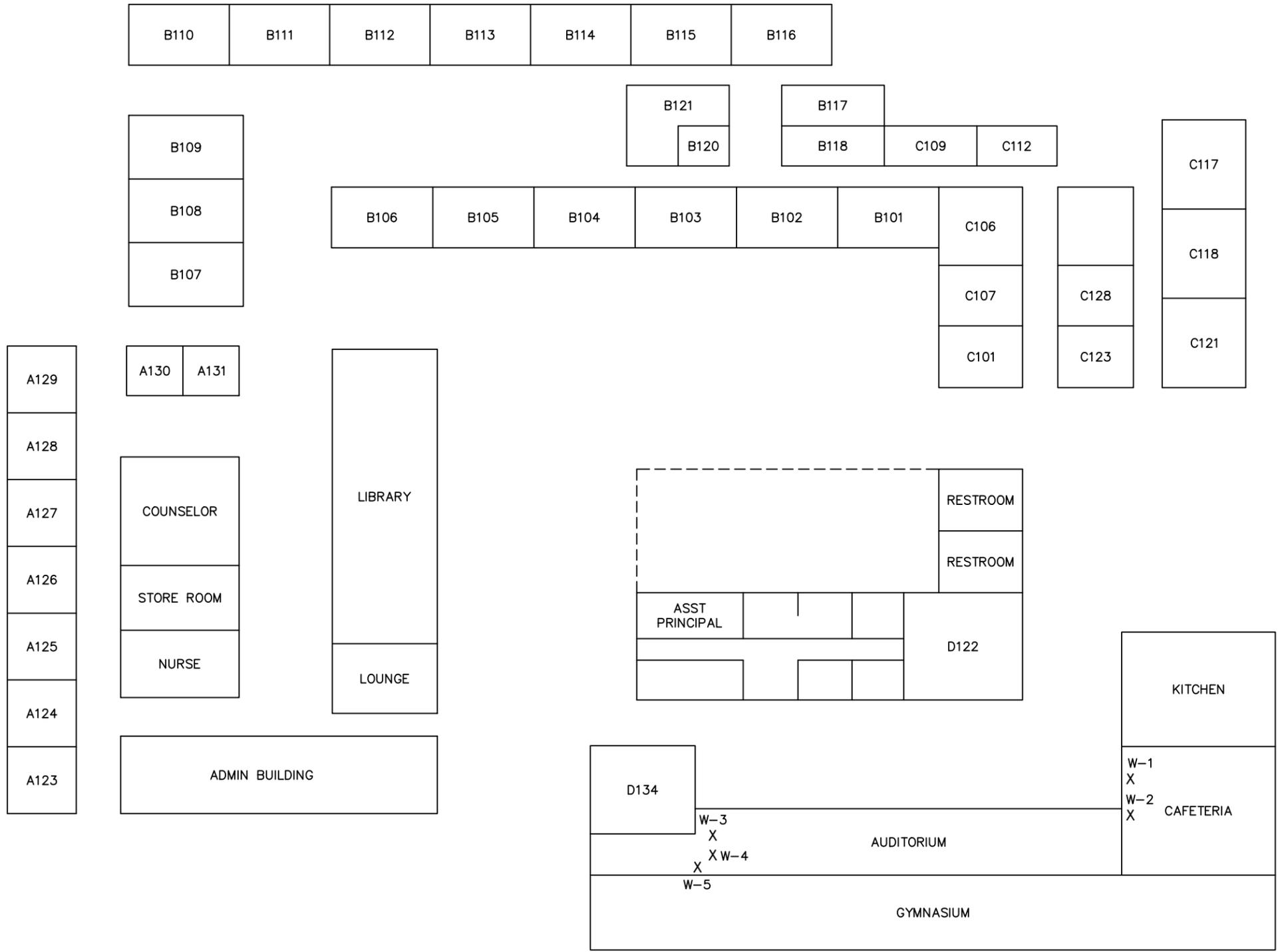
Opinions and recommendations contained in this report apply to conditions existing when services were performed and are intended only for the client, purposes, locations, time frames, and project parameters indicated. We are not responsible for the impacts of any changes in environmental standards, practices, or regulations subsequent to performance of services. We do not warrant the accuracy of information supplied by others, or the use of segregated portions of this report.

**Table 1**  
**Summary of Air Monitoring by PCM**  
**John Woodson Jr High School, USVI**

SAMPLING DATE	SAMPLE ID	SAMPLE LOCATION	SAMPLE TYPE	SAMPLE VOLUME (liters)	FIBER CONCENTRATION (f/cm <sup>3</sup> )
8/27/18	W-1	AUDITORIUM/CAFETERIA	CL	1599	<0.01
8/27/18	W-2	AUDITORIUM/CAFETERIA	CL	1599	<0.01
8/27/18	W-3	AUDITORIUM/CAFETERIA	CL	1586	<0.01
8/27/18	W-4	AUDITORIUM/CAFETERIA	CL	1586	<0.01
8/27/18	W-5	AUDITORIUM/CAFETERIA	CL	1586	<0.01
8/27/18	W-BL	FIELD BLANK	BL	-----	0 f/bl

NOTE:	PCM = phase contrast microscopy.	CL = clearance testing.
	f/bl = fibers per blank.	DUP = duplicate sample.
	f/cm <sup>3</sup> = fibers per cubic centimeter.	OWA = outside work area.
	BL = field blank	IWA = inside work area.

## FIGURES



**LEGEND:**

X PCM SAMPLE LOCATION

 <p>APTIM ENVIRONMENTAL &amp; INFRASTRUCTURE, INC. 9143 PHILIPS HIGHWAY, SUITE 400 JACKSONVILLE, FLORIDA 32256 (904) 367-6000 OFFICE (904) 367-6001 FAX</p>			
OFFICE: JACKSONVILLE	DATE: 9-24-18	ACAD FILE: 7084B21	
<b>ASBESTOS FLOOR TILE AND MASTIC ABATEMENT AUGUST 27, 2018</b>			
CLIENT: ST. CROIX SCHOOL DISTRICT ST. CROIX, U.S. VIRGIN ISLANDS			PM: DM
LOCATION: JOHN H. WOODSON JUNIOR/SENIOR HIGH SCHOOL (GROUND FLOOR) RURAL ROUTE 1, KINGSHILL ST. CROIX, U.S. VIRGIN ISLANDS 00820			
DESIGNED: DM	DRAWN: SDJF	PROJECT NO.: 631237084	FIGURE: 1

## **AIR MONITORING LOGS**

Client Name:

Site Name:

Bldg Name:

Floor:

St Croix Schools

Woodson Jr High

auditorium/cafe/terry

APTIM Proj/Task No.:

Date Sampled:

Technician Name:

631237084

8/27/18

Dubish



### AIR SAMPLES COLLECTED FOR ANALYSIS FOR AIRBORNE FIBERS BY PCM ANALYSIS

Sample Number	Pump ID Number	Sample Type	Sample Description and Location	SAMPLING PERIOD			FLOW RATE L/M			SAMPLE RESULTS		
				Start	Stop	Total Min.	Start	Stop	Avg.	Total Volume	Fiber per Field	NIOSH 7400 f/cm <sup>3</sup> /Limit of Detection
W-1	1944	CL	auditorium/cafeteria	11:12	1:15	123	13	13	13	1599	9.5/100	0.0024
W-2	1722	CL		11:12	1:15	123				1,599	11.5/100	0.0035
W-3	1743	CL		11:15	1:17	122				1,586	9.5/100	0.0029
W-4	1729	CL		11:15	1:17	122				1,586	5/100	0.0015
W-5	1723	CL		11:15	1:17	122				1,586	7/100	0.0022
W-BL		BL									0/100	

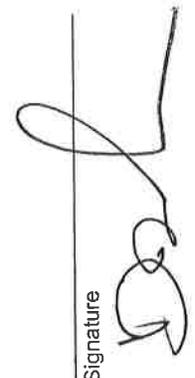
  

HEADING KEY		CALIBRATION:	
L/m = Liters Per Minute	f/cm <sup>3</sup> = Fibers per Cubic Centimeter	Rotometer	_____
PCM = Phase Contrast Microscopy	TLTC = To Loaded To Count	Critical Orifice	_____
		Bubble Meter	_____

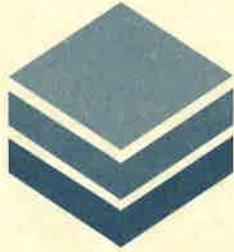
SAMPLE TYPE KEY		Microscope Number	
AA = Ambient Air	EB = Exterior of Building	_____	_____
BB = Background/Baseline	IWA = Inside Work Area	_____	_____
BL = Blank	NAE = Negative Air Exhaust	_____	_____
CL = Clearance	OWA = Outside Work Area/Barrier	_____	_____
DU = Decontamination Unit	RC = Recount	_____	_____
DUP = Duplicate Sample	RS = Reference Slide	_____	_____

Signature 



## **CERTIFICATION**



**M·E·T·A**  
 Mayhew Environmental Training Associates  
 I N C O R P O R A T E D

Certificate # MEC99B726E8428407

**David Mosher**

has on 1/17/2018, in Jacksonville, FL  
 completed the requirements for asbestos accreditation under Section 206 of TSCA Title II, 15 USC 2646

**Asbestos Abatement Contractor/Supervisor Refresher**

as approved by FL  
 and the US EPA under 40 CFR 763 (AHERA)  
 from 1/17/2018 to 1/17/2018 and passed the associated exam on 1/17/2018  
 with a score of at least 70%



Bill Young  
 Instructor

*Bill Young*

Thomas Mayhew  
 President

*Thomas Mayhew*

Training Provider #: FL49-0001221  
 Course #: 180117ASBSRFL

SSN: XXX-XX-6863  
 Expiration: 1/17/2019

P.O. Box 786 - Lawrence, KS. 66044 - 800.444.6382

[www.metaenvironmental.net](http://www.metaenvironmental.net)

# The Deep South Center for Occupational Health & Safety

Certifies that

David W. Mosher

Has Satisfactorily Completed  
NIOSH 582-Sampling & Evaluating  
Airborne Asbestos Dust  
August 25-29, 1986

And is Hereby Awarded This Certificate.



*James M. ...*  
Course Instructor

*Ed ...*  
Director, Center for Occupational  
Health & Safety

*Ed ...*  
Dean, School of Public Health