



November 15, 2021

Mr. Bernie Rice  
Executive Director, Physical Properties  
Ann Arbor Public Schools  
2555 South State Street  
Ann Arbor, Michigan 48104

RE: **Project #AE210780**  
Asbestos Abatement Report  
Community High School

Dear Mr. Rice:

Per your request, Arch Environmental Group, Inc. (AEG) conducted project coordination and air monitoring activities for a small-scale, short duration asbestos abatement project at Community High School on November 5-6, 2021. Environmental Maintenance Engineers, a State of Michigan licensed asbestos abatement contractor, drilled anchor holes in asbestos ceiling plaster throughout the 1st Floor North Hallway and Connection Hallway. The asbestos ceiling plaster was removed using Class II procedures and wet methods inside of a full negative enclosure. The asbestos ceiling plaster was properly disposed of as asbestos waste.

AEG conducted air monitoring during abatement activities during the abatement activities. The collected air samples have been analyzed utilizing Phase Contrast Microscopy (PCM) in accordance with NIOSH 7400 Methodologies. AEG uses the following nomenclature for referencing different types of air samples:

FB	Field Blank
SS	Set Up Sample
AS	Area Sample
PS	Personal Sample
PA	Clearance (Post-Abatement) Sample

**Following a thorough visual inspection of the project area, the PCM clearance samples collected in the 1st Floor North Hallway and Connection Hallway at Community High School on November 5-6, 2021, were analyzed below the AHERA PCM Clearance Level of 0.01 fibers per cubic centimeter (f/cc). The project areas shall be considered safe for re-occupancy.**

Arch Environmental Group, Inc. looks forward to working with you in the future and helping you to address any concerns regarding environmental health and safety. If you have any questions regarding this report, or if I can be of further assistance please feel free to contact me at (248) 426-0165.

**Project #AE210780**

Asbestos Abatement Project Report  
Ann Arbor Public Schools  
Community High School  
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Sincerely,

**Arch Environmental Group, Inc.**  
**Environmental Services**



Gary Bosh  
Project Consultant II, healthAIR

Attachments: Asbestos Daily Project Reports  
Contractor Documentation

File: AE210780

**Attachment**  
Asbestos Daily Project Reports



## ASBESTOS DAILY PROJECT REPORTS On-Site Activity Summary

<b>Client:</b> Ann Arbor Public Schools	<b>Date:</b> 11.5.2021	<b>Consultant:</b> Arch Environmental Group, Inc.
<b>Building:</b> Community High School		<b>Project Technician:</b> Thinkh Nguyen
<b>Location:</b> 1st Floor		<b>Abatement Contractor:</b> Environmental Maintenance Engineers, Inc.
<b>Project #:</b> AE210780		<b>Competent Person:</b> Matt Kelly

Abatement Information	Regulated Area Information	Air Sample Information
<b>OSHA Work Class</b> II	Enclosure Integrity Check (start of work shift): Yes	Air samples collected: Yes
	Corrections necessary: No	Calibrated pumps: Yes
<b>Contractor Activities</b>	Corrections made: No	Baseline samples (BL) no
Set-up procedures conducted: Yes	Enclosure Integrity Check (middle of work shift): Yes	Set-up samples (SS) Yes
Abatement procedures conducted:	Corrections necessary: No	Personal samples (8 hr TWA) (PS) Yes
Removal: Yes	Corrections made: No	Above/Below PEL: Below
Encapsulation: No	Enclosure Integrity Check (end of work shift): Yes	Personal samples (STEL) (PS) Yes
Repair: No	Corrections necessary: Yes	Above/Below PEL: Below
Enclosure: No	Corrections made: Yes	Above/Below STEL: Below
Wet methods used: Yes	Negative air maintained: Yes	Area samples (AS) Yes
Clean up procedures: Yes	Manometer reading: <#>	PCM Clearance samples (PA) No
Waste bags checked: Yes	Smoke testing conducted: Yes	Passed: N/A
Conducted by: <x>	Conducted by: <x>	Aggressive: N/A
# of Waste Bags: <#>	Asbestos signs in place: Yes	TEM Clearance samples (PA) No
Final cleaning procedures: Yes	Asbestos banner tape in place: Yes	Passed: N/A
Visual inspection: Yes	Shower operational: Yes	Aggressive: N/A
Conducted by: <x>	Dumpster secure at end of day: Yes	
Lock-down activities: Yes	PPE - Disposable coveralls (Contractor): Yes	<b>Personal Samples Collected On:</b>
Tear-down procedures: Yes	PPE - Respirators (Contractor): Yes	Name(s): Patrick O'Boyle
	Type: HFNPR	A worker/workers who is/are representative of all workers
<b>Abatement Method(s)</b>	PPE - Disposable coveralls (Consultant): Yes	within the work area (all workers are conducting similar
Full Enclosure	PPE - Respirators (Consultant): Yes	activities)
Non-Friable Project	Type: HFNPR	
		<b>Required Postings</b>
Criticals set-up: Yes	Did Consultant enter enclosure: No	Notification: Yes
Shower set-up: Yes	Time (A.M.): <##:## a.m. - ##:## a.m.>	Supervisor/Competent Person Training: Yes
AFDs used: Yes	Time (P.M.): <##:## p.m. - ##:## p.m.>	OSHA Personal Sampling Posting: Yes



## ASBESTOS DAILY PROJECT REPORTS Contractor and Materials Information

<b>Client:</b> Ann Arbor Public Schools	<b>Date:</b> 11.5.2021	<b>Consultant:</b> Arch Environmental Group, Inc.
<b>Building:</b> Community High School		<b>Project Technician:</b> Thinh Nguyen
<b>Location:</b> 1st Floor		<b>Abatement Contractor:</b> Environmental Maintenance Engineers, Inc.
<b>Project #:</b> AE210780		<b>Competent Person:</b> Matt Kelly

### Abatement Personnel Information

#### Workers / Accreditation Numbers

Name: **Matt Kelly** Type: **Supervisor**  
 Accred #: **A34636** Training:   
 Exp. Date: **7/28/2022** Fit test:   
 Activity: **Supervisor** PWO:   
 Personal #: **N/A (No abate. activities)**

Name: **Timothy Casey** Type: **Supervisor**  
 Accred #: **A49184** Training:   
 Exp. Date: **7/20/2022** Fit test:   
 Activity: **Removal of misc. NF** PWO:   
 Personal #: **PS1**

Name:   
 Accred #:   
 Exp. Date:   
 Activity:   
 Personal #:

### Abatement Personnel Information

#### Workers / Accreditation Numbers

Name: **Gregory Nagle** Type: **Supervisor**  
 Accred #: **A47962** Training:   
 Exp. Date: **9/22/2022** Fit test:   
 Activity: **Removal of misc. NF** PWO:   
 Personal #: **PS1**

Name: **Patrick O'Boyle** Type: **Supervisor**  
 Accred #: **A50125** Training:   
 Exp. Date: **3/14/2022** Fit test:   
 Activity: **Removal of misc. NF** PWO:   
 Personal #: **PS1**

Name:   
 Accred #:   
 Exp. Date:   
 Activity:   
 Personal #:

### Materials Abated - Quantity & Location

Material	sf/lf/#	Locations
Other Class II	50	1st Floor North Hall & Connection Hall

### Additional Work Activities

Were work activities conducted that were not included in original scope-of-work or that need to be tracked on a T&M basis? No



**ASBESTOS DAILY PROJECT REPORTS**  
**Air Sample Analysis Information**

<b>Client:</b> Ann Arbor Public Schools	<b>Samples Collected By:</b> Tinh Nguyen
<b>Building:</b> Community High School	<b>Sample Collection Date:</b> 11.5.2021
<b>Location:</b> 1st Floor	<b>Samples Analyzed By:</b> Tinh Nguyen
<b>Project #:</b> AE210780	<b>Sample Analysis Date:</b> 11.5.2021

Sample ID	Sample Location	Start/End	Total Time (min)	Flow Rate (Lpm)	Volume (L)	Concentration (f/cc)	Density (f/mm <sup>2</sup> )
FB1	Sample prepared on-site.	--	--	--	--	--	1.27
FB2	Sample prepared on-site.	--	--	--	--	--	1.91
SS1	In north hallway	5:30 PM	120	8.580	1030	0.004	12.74
		7:30 PM					
SS2	In back hallway, in tool area	5:30 PM	120	8.035	964	0.005	14.01
		7:30 PM					
AS1	O/S Decon	7:45 PM	180	8.035	1446	0.002	9.55
		10:45 PM					

AHERA PCM Clearance Level = 0.010 f/cc  
 AHERA TEM Clearance Level = 70 AS/mm<sup>2</sup>  
 State of Michigan PCM Clearance Level = 0.050 f/cc

Project Area Clearance Information

N/A



**ASBESTOS DAILY PROJECT REPORTS**  
**OSHA Personal Air Sample Analysis**

<b>Client:</b> Ann Arbor Public Schools	<b>Samples Collected By:</b> Tinh Nguyen
<b>Building:</b> Community High School	<b>Sample Collection Date:</b> 11.5.2021
<b>Location:</b> 1st Floor	<b>Samples Analyzed By:</b> Tinh Nguyen
<b>Project #:</b> AE210780	<b>Sample Analysis Date:</b> 11.5.2021

Sample ID	Sample Location	Start/End	Total Time (min)	Flow Rate (Lpm)	Volume (L)	Concentration (f/cc)	Density (f/mm <sup>2</sup> )
PS1 Series	Patrick O'Boyle	7:45 PM	180	2.0	360	0.045	*
						0.017	
Activity:	removing sections of plasters and drilling holes in ceiling						
PS1	Patrick O'Boyle	7:45 PM	30	2.0	60	0.063	11.46
		8:15 PM					
PS1R1	Patrick O'Boyle	8:15 PM	60	2.0	120	0.054	18.47
		9:15 PM					
PS1R2	Patrick O'Boyle	9:15 PM	90	2.0	180	0.032	16.56
		10:45 PM					

OSHA Permissible Exposure Limit = 0.100 f/cc, 8 hr TWA

OSHA STEL Limit = 1.0 f/cc

\* = 8 hr Time Weighted Average



## ASBESTOS DAILY PROJECT REPORTS On-Site Activity Summary

<b>Client:</b> Ann Arbor Public Schools	<b>Date:</b> 11.6.2021	<b>Consultant:</b> Arch Environmental Group, Inc.
<b>Building:</b> Community High School		<b>Project Technician:</b> Thinkh Nguyen
<b>Location:</b> 1st Floor		<b>Abatement Contractor:</b> Environmental Maintenance Engineers, Inc.
<b>Project #:</b> AE210780		<b>Competent Person:</b> Matt Kelly

Abatement Information	Regulated Area Information	Air Sample Information
<b>OSHA Work Class</b> II	Enclosure Integrity Check (start of work shift): Yes	Air samples collected: Yes
	Corrections necessary: No	Calibrated pumps: Yes
<b>Contractor Activities</b>	Corrections made: No	Baseline samples (BL): No
Set-up procedures conducted: No	Enclosure Integrity Check (middle of work shift): Yes	Set-up samples (SS): No
Abatement procedures conducted:	Corrections necessary: No	Personal samples (8 hr TWA) (PS): Yes
Removal: Yes	Corrections made: No	Above/Below PEL: Below
Encapsulation: No	Enclosure Integrity Check (end of work shift): Yes	Personal samples (STEL) (PS): Yes
Repair: No	Corrections necessary: Yes	Above/Below PEL: Below
Enclosure: No	Corrections made: Yes	Above/Below STEL: Below
Wet methods used: Yes	Negative air maintained: Yes	Area samples (AS): Yes
Clean up procedures: Yes	Manometer reading: <#>	PCM Clearance samples (PA): No
Waste bags checked: Yes	Smoke testing conducted: Yes	Passed: N/A
Conducted by: <x>	Conducted by: <x>	Aggressive: N/A
# of Waste Bags: <#>	Asbestos signs in place: Yes	TEM Clearance samples (PA): No
Final cleaning procedures: Yes	Asbestos banner tape in place: Yes	Passed: N/A
Visual inspection: Yes	Shower operational: Yes	Aggressive: N/A
Conducted by: <x>	Dumpster secure at end of day: Yes	
Lock-down activities: Yes	PPE - Disposable coveralls (Contractor): Yes	<b>Personal Samples Collected On:</b>
Tear-down procedures: Yes	PPE - Respirators (Contractor): Yes	Name(s): Patrick O'Boyle, Bradley Altherr
	Type: HFNPR	A worker/workers who is/are representative of all workers
<b>Abatement Method(s)</b>	PPE - Disposable coveralls (Consultant): Yes	within the work area (all workers are conducting similar
Full Enclosure	PPE - Respirators (Consultant): Yes	activities)
Non-Friable Project	Type: HFNPR	
		<b>Required Postings</b>
Criticals set-up: Yes	Did Consultant enter enclosure: No	Notification: Yes
Shower set-up: Yes	Time (A.M.): <###:## a.m. - ##:## a.m.>	Supervisor/Competent Person Training: Yes
AFDs used: Yes	Time (P.M.): <###:## p.m. - ##:## p.m.>	OSHA Personal Sampling Posting: Yes





## ASBESTOS DAILY PROJECT REPORTS Contractor and Materials Information

<b>Client:</b> Ann Arbor Public Schools	<b>Date:</b> 11.6.2021	<b>Consultant:</b> Arch Environmental Group, Inc.
<b>Building:</b> Community High School		<b>Project Technician:</b> Thinh Nguyen
<b>Location:</b> 1st Floor		<b>Abatement Contractor:</b> Environmental Maintenance Engineers, Inc.
<b>Project #:</b> AE210780		<b>Competent Person:</b> Matt Kelly

### Abatement Personnel Information

#### Workers / Accreditation Numbers

Name: **Matt Kelly** Type: **Supervisor**  
 Accred #: **A34636** Training: **[REDACTED]**  
 Exp. Date: **7/28/2022** Fit test: **[REDACTED]**  
 Activity: **Supervisor** PWO: **[REDACTED]**  
 Personal #: **N/A (No abate. activities)**

Name: **Timothy Casey** Type: **Supervisor**  
 Accred #: **A49184** Training: **[REDACTED]**  
 Exp. Date: **7/20/2022** Fit test: **[REDACTED]**  
 Activity: **Removal of misc. NF** PWO: **[REDACTED]**  
 Personal #: **PS1**

Name: **Bradley Altherr** Type: **Worker**  
 Accred #: **A45730** Training: **[REDACTED]**  
 Exp. Date: **6/4/2022** Fit test: **[REDACTED]**  
 Activity: **Removal of misc. NF** PWO: **[REDACTED]**  
 Personal #: **PS2**

Name: **Thomas Ptak** Type: **[REDACTED]**  
 Accred #: **A16288** Training: **[REDACTED]**  
 Exp. Date: **1/15/2022** Fit test: **[REDACTED]**  
 Activity: **Removal of misc. NF** PWO: **[REDACTED]**  
 Personal #: **PS2**

### Abatement Personnel Information

#### Workers / Accreditation Numbers

Name: **Jason Howard** Type: **Supervisor**  
 Accred #: **A42060** Training: **[REDACTED]**  
 Exp. Date: **[REDACTED]** Fit test: **[REDACTED]**  
 Activity: **Removal of misc. NF** PWO: **[REDACTED]**  
 Personal #: **PS1**

Name: **Patrick O'Boyle** Type: **Supervisor**  
 Accred #: **A50125** Training: **[REDACTED]**  
 Exp. Date: **3/14/2022** Fit test: **[REDACTED]**  
 Activity: **Removal of misc. NF** PWO: **[REDACTED]**  
 Personal #: **PS1**

Name: **Erik Richardson** Type: **Supervisor**  
 Accred #: **A52387** Training: **[REDACTED]**  
 Exp. Date: **6/5/2022** Fit test: **[REDACTED]**  
 Activity: **Removal of misc. NF** PWO: **[REDACTED]**  
 Personal #: **PS2**

Name: **[REDACTED]** Type: **[REDACTED]**  
 Accred #: **[REDACTED]** Training: **[REDACTED]**  
 Exp. Date: **[REDACTED]** Fit test: **[REDACTED]**  
 Activity: **[REDACTED]** PWO: **[REDACTED]**  
 Personal #: **[REDACTED]**

### Materials Abated - Quantity & Location

Material	sf/lf/#	Locations
Other Class II	50	1st Floor North Hall & Connection Hall

### Additional Work Activities

Were work activities conducted that were not included in original scope-of-work or that need to be tracked on a T&M basis? No



**ASBESTOS DAILY PROJECT REPORTS**  
**Air Sample Analysis Information**

<b>Client:</b> Ann Arbor Public Schools	<b>Samples Collected By:</b> Tinh Nguyen
<b>Building:</b> Community High School	<b>Sample Collection Date:</b> 11.6.2021
<b>Location:</b> 1st Floor	<b>Samples Analyzed By:</b> Tinh Nguyen
<b>Project #:</b> AE210780	<b>Sample Analysis Date:</b> 11.6.2021

Sample ID	Sample Location	Start/End	Total Time (min)	Flow Rate (Lpm)	Volume (L)	Concentration (f/cc)	Density (f/mm <sup>2</sup> )
FB1	Sample prepared on-site.	--	--	--	--	--	1.27
FB2	Sample prepared on-site.	--	--	--	--	--	1.91
AS1	Outside Decon	8:30 AM	150	8.035	1205	0.004	14.01
		11:00 AM					
AS1R1	Outside Decon	11:00 AM	140	8.035	1125	0.003	10.19
		1:20 PM					
PA1	In north hallway	11:00 AM	135	14.56	1966	0.003	15.92
		1:15 PM					
PA2	In back hallway, in tool area	11:00 AM	135	14.4	1944	0.003	17.83
		1:15 PM					

AHERA PCM Clearance Level = 0.010 f/cc  
 AHERA TEM Clearance Level = 70 AS/mm<sup>2</sup>  
 State of Michigan PCM Clearance Level = 0.050 f/cc

**Project Area Clearance Information**

Passed



**ASBESTOS DAILY PROJECT REPORTS**  
**OSHA Personal Air Sample Analysis**

<b>Client:</b>	Ann Arbor Public Schools	<b>Samples Collected By:</b>	Thinh Nguyen
<b>Building:</b>	Community High School	<b>Sample Collection Date:</b>	11.6.2021
<b>Location:</b>	1st Floor	<b>Samples Analyzed By:</b>	Thinh Nguyen
<b>Project #:</b>	AE210780	<b>Sample Analysis Date:</b>	11.6.2021

Sample ID	Sample Location	Start/End	Total Time (min)	Flow Rate (Lpm)	Volume (L)	Concentration (f/cc)	Density (f/mm <sup>2</sup> )
<b>PS1 Series</b>	Patrick O'Boyle	8:30 AM	180	2.0	360	0.034	*
		11:30 AM				0.013	
Activity:	removing sections of plasters and drilling holes in ceiling						
<b>PS1</b>	Patrick O'Boyle	8:30 AM	120	2.0	240	0.026	17.83
		10:30 AM					
<b>PS1R1</b>	Patrick O'Boyle	10:30 AM	30	2.0	60	0.047	8.92
		11:00 AM					
<b>PS1R2</b>	Patrick O'Boyle	11:00 AM	30	2.0	60	0.051	9.55
		11:30 AM					

OSHA Permissible Exposure Limit = 0.100 f/cc, 8 hr TWA

OSHA STEL Limit = 1.0 f/cc

\* = 8 hr Time Weighted Average

<b>PS2 Series</b>	Bradley Altherr	8:30 AM	180	2.0	360	0.031	*
		11:30 AM				0.011	
Activity:	removing sections of plasters and drilling holes in ceiling						
<b>PS2</b>	Bradley Altherr	8:30 AM	120	2.0	240	0.021	14.65
		10:30 AM					
<b>PS2R1</b>	Bradley Altherr	10:30 AM	30	2.0	60	0.045	7.01
		11:00 AM					
<b>PS2R2</b>	Bradley Altherr	11:00 AM	30	2.0	60	0.055	10.19
		11:30 AM					

OSHA Permissible Exposure Limit = 0.100 f/cc, 8 hr TWA

OSHA STEL Limit = 1.0 f/cc

\* = 8 hr Time Weighted Average

**Attachment**  
Contractor Documentation