YNN & ASSOCIATES, INC.

MONTGOMERY COUNTY PUBLIC SCHOOLS
DIVISION OF SUSTAINABILITY AND COMPLIANCE
8301 TURKEY THICKET DRIVE
GAITHERSBURG, MARYLAND

ASBESTOS ABATEMENT
AT
POOLESVILLE HIGH SCHOOL
17501 W. WILLARD ROAD
POOLESVILLE, MARYLAND

LOCATION: TRENCH
ABATEMENT OF PIPE INSULATION
DATE: 10/12/2024

Final Report

For

Poolesville High School

Submitted To:

Mr. Derek Kwon
Montgomery County Public Schools
Division of Sustainability and Compliance
8301 Turkey Thicket Drive
Gaithersburg, Maryland 20855

Submitted By:

YNN & ASSOCIATE, INC.
4808 Continental Drive
Olney, Maryland 20832

Prepared By:

John Ndanga
Project Manager

October 14, 2024

TABLE OF CONTENTS

ABATEMENT DATA

MONTGOMERY COUNTY PUBLIC SCHOOLS
Department of Sustainability and Compliance

AHERA INFORMATION RECORD (AIR)

I.	BUILDING NAME ADDRESS:	Poolesville High School 17501 W. Willard Road Poolesville, Maryland
II.	MATERIAL LOCATION: (List Locations Separately)	Trench
III.	MATERIAL TYPE:	Pipe Insulation
IV.	ABATEMENT OPTION CHOSEN:	Removal
V.	REASON:	Renovation
VI.	MATERIAL QUANTITY REMOVED (PER LOCATION): Approximately 100 LF	
VII.	PROJECT BEGINNING DATE: PROJECT ENDING DATE:	10/12/2024 10/12/2024
VIII.	CONTRACTOR: Asbestos Abatement Specialist, Inc. PHONE#: 410) 796 2849	

AHERA INFORMATION RECORD (AIR)
(Continued)

X. PROJECT SUPERVISION AND AIR MONITORING

I. H. FIRM: YNN & Associates, Inc. PHONE #: (301) 343-4767
ADDRESS: 4808 Continental Drive
Olney, Maryland 20832

I. H. MANAGER : John Ndanga CERTIFICATION : 23-1103

AIR MONITORING BY: (X) PCM ( ) TEM

PROJECT REPORT: John Ndanga

ALL FINAL AIR SAMPLES: PASS ____ TEM ()
PCM (X)

ADDITIONAL I. H. PERSONNEL :
1. _____
2. _____
3. _____
4. _____

TEM LAB (IF DIFFERENT FROM ABOVE) :

NAME :EMSL ANALYTICAL, INC.
ADDRESS : 10752 & 10768 Baltimore Avenue PHONE # : (301)937-5700
BELTSVILLE, MD 20705

III. EXECUTIVE SUMMARY

YOTI N. N. & ASSOCIATES, INC.
4808 Continental Drive, Olney Maryland 20832
Tel. (301) 260-0687 * Fax (301) 260-0688

October 14, 2024

Mr. Derek Kwon
Montgomery County Public Schools
Division of Sustainability and Compliance
8301 Turkey Thicket Drive, Bldg. 1A
Gaithersburg, Maryland 20879

Dear Mr. Kwon:

RE: Poolesville High School (Pipe insulation abatement in trench Phase 1):

At the request of Montgomery County Public Schools (Division of Sustainability and Compliance), Yoti N.N. & Associates, Inc. (YNN) provided industrial hygiene, air-monitoring, and contractor oversight services during abatement of pipe insulation at Poolesville High School (Site). The Site is located at 17501 W. Willard Road in Poolesville, Maryland. The abatement operation was performed on October 12, 2024.

All daily air sampling during this project was performed utilizing the NIOSH 7400 method, which employs Phase Contrast Microscopy (PCM). Final clearance samples were analyzed via Phase Contrast Microscopy (PCM). Each PCM final clearance sample revealed a fiber concentration of less than zero point zero one fiber per cubic centimeter of air (<0.01 f/cc). This is the re-occupancy standard required under AHERA and State of Maryland regulations.

Enclosed for your review is the required documentation for the actions performed on this project. If you have any questions concerning this report, or if we may be of further services, please feel free to contact us at (301) 260-0687.

Sincerely,

YNN & Associates, Inc.

John Ndanga
Project Manager

III. SCOPE OF WORK

SCOPE OF WORK

The scope of work accomplished by YNN included the industrial hygiene supervision, job site inspections, and asbestos air monitoring during the actions performed at this location. These actions included:

1. Set up of containment enclosure and work area designation/using appropriate signage.

2. Cleaning and asbestos decontamination of all surfaces, equipment, and fixtures.

3. Tear down of containment enclosure and work area designation signage.

4. Removal of all asbestos-containing waste from the job site and subsequent disposal.

During this activity, the on-site Industrial Hygienist placed emphasis on the review and maintenance by the abatement contractor, of the following:

- Strict adherence to contract specifications
- Work Practices
- Use of personal protection equipment
- Protection of non-abatement areas from contamination
- Compliance with Maryland, EPA, OSHA, DOT, & other applicable regulations
- Integrity of containment barriers
- Sufficiency of decontamination procedures
- Adequacy of post-abatement/pre-reoccupation cleanup
- Waste disposal
- Certification status of abatement personnel

IV. INDUSTRIAL HYGIENE MONITORING REPORT

INDUSTRIAL HYGIENE MONITORING REPORT

All identified asbestos-containing material in Phase 1 (pipe insulation) was abated in the trench as per the work scope.

All workers wore suits of disposable, full-body protective garments, and HEPA-cartridge respirators at all times during this project. All equipment and bags of asbestos-containing waste were doubled bagged prior to their load-out from the containment.

All abatement activities were closely monitored by on-site industrial hygienist. The work area was inspected prior to and during all actions to verify that all identified ACMs had been successfully removed from the work area as per scope of work. Environmental air samples were collected by YNN throughout the duration of abatement to monitor potential fiber migration and evaluate fibers-in-air concentrations in and around the work area. Following completion of abatement in the work area, YNN cleared the work area for re-occupancy only after passing two clearance criteria as recommended by the Environmental Protection Agency (EPA) and the State of Maryland. The first criterion is a visual inspection. This is done to ensure no visible debris and residual dust particles, remain on any surfaces.

The second clearance criterion is acceptable airborne asbestos levels. Final clearance air monitoring for asbestos was accomplished via Phase Contrast Microscopy (PCM). The PCM samples each had to reveal a fiber concentration of less than zero point zero one fiber per cubic centimeter of air (<0.01 f/cc). This is the re-occupancy level required under AHERA regulation: 40 CFR Part 763. All PCM air samples were analyzed on-site using Phase Contrast Microscopy (PCM) in accordance with the National Institute for Occupational Safety and Health (NIOSH) Method 7400 by YNN's Industrial Hygienist who has satisfactorily completed Sampling and Evaluating Airborne Asbestos Dust-NIOSH 582 equivalency course.

Final clearance air sample results for the work area showed acceptable fiber concentrations less than zero point zero one cubic centimeter of air (<0.01 f/cc) via PCM. This is the re-occupancy level required under AHERA regulation: 40 CFR Part 763 and State of Maryland.

Based upon the visual inspections and subsequent PCM air sample results, the work area was cleared for re-occupancy.

V. SAMPLING DATA, & RESULTS

YOTI N.N. & ASSOCIATES, INC (YNN)
Industrial Hygiene and Environmental Services

DAILY LOG SHEET

Date: 10/12/2024 **Job Name:** Poolesville High School

Time	Remarks
7:00	YNN's field IH arrived at Poolesville High School (Site) to perform environmental air quality
	monitoring, final clearance and contractor oversight. The Site is located at 17501 W. Willard
	Road in Poolesville, Maryland. Scope of work: Removal of ACM pipe insulation and metal
	jacketing that is currently exposed in the trench area.
	The crew from ASI is made up of seven workers and a supervisor.
	IH discussed work plan with supervisor. IH was informed that the crew will set up a containment
	with decon chambers , put the containment under negative pressure and remove pipe insulation.
8:15	The crew moved supplies into the area and commenced setting up the containment. The crew
	was observed utilizing duct tape, 6 mil poly and adhesive glue.
10:00	The crew completed setting up the containment and requested a pre-abatement visual inspec-
	tion. IH inspected and passed the area. Negative pressure was observed by flaps pulling
	inwards at the entrance. Appropriate signage was posted at the entrance into the containment.
	The crew was given authorization to commence removal. Crew dons PPE and started removal.
	IH calibrated air samplers with a rotameter at 5 l/m and commenced environmetal air sampling.
	The crew was observed wetting down the pipe insulation with amended water utilizing an
	airless sprayer.
11:00	IH dons PPE and went into the containment to to check on work progress. The crew contiued to
	perform abatement of pipe insulation. The abated insulation was promptly bagged while still wet
	loaded-out. The waste was loaded into their truck lined with 6 mil poly. No problems reported.
	The crew was in compliance.
12:00	The crew cleaned up all gross debris and exited the area for lunch break.
12:30	The crew returned from lunch break to complete pipe insulation removal and commence final
	cleaning. IH continued to perform air monitoring.
14:00	The crew completed final cleanng and requested a final visual inapection. IH dons PPE, inspects
	and passes the containment. The crew was given authorization to encapsulate the containment.
	IH calibrated air samplers at 10 l/m and commenced final clearance air sampling via PCM.
16:00	IH completed final clerance air sampling and performed air sample amalysis.
	All clearance air samples were below 0.01 f/cc.
	The crew was given authorization to tear down the containment.
	The crew completed tearing down the containment. IH performed a post tear down visual
	inspection and passed. No visible debris was observed.
17:00	IH exited the Site.

YOTI N.N. & ASSOCIATES, INC (YNN)
Industrial Hygiene and Environmental Services

AIR SAMPLE DATA SHEET

Client: MCPS **Project Name:** Poolesville High School

Work Area: Pipe in Trench **Date:** 10/12/2024

Sample NO.	Location / Code Relation to work	FLOW RATE Start	FLOW RATE End	Time On	Time Off	Total Time	Total Volume	Fibers	Fibers CC
101224-1	Environmental-North Side	5	5	10:00	12:00	120	600	3.5	< 0.01
101224-2	Environmental-South Side	5	5	10:05	12:06	121	605	2.5	< 0.01
101224-3	Environmental-East Side	5	5	10:10	12:12	122	610	4	< 0.01
101224-4	Environmental-East Side	5	5	10:15	12:16	121	605	2.5	< 0.01
101224-5	Environmental-North Side	5	5	12:00	14:10	130	650	4.5	< 0.01
101224-6	Environmental-South Side	5	5	12:06	14:16	130	650	5.5	< 0.01
101224-7	Environmental-West Side	5	5	12:12	14:14	122	611	3.5	< 0.01
101224-8	Environmental-East Side	5	5	12:16	14:20	124	620	2.5	< 0.01
101224-9	POST (Final Clearance)	10	10	14:00	16:00	120	1200	4	< 0.01
101224-10	POST (Final Clearance)	10	10	14:00	16:00	120	1200	5.5	< 0.01
101224-11	POST (Final Clearance)	10	10	14:00	16:00	120	1200	3.5	< 0.01
101224-12	POST (Final Clearance)	10	10	14:00	16:00	120	1200	3	< 0.01

Abbreviations:

PRE - Pre-Abatement Sampling
OGBA - Outside Glove Bag Area
IGBA - Inside Glove Bag Area
PRS - Personal Sample
IBT - Inside Barrier Tape
BLK - Blank
IWA - Inside Work Area
OWA - Outside Work Area
OBT - Outside Barrier Tape
NFO - No Fibers Observed
Post - Final Clearance monitoring
AMB - Ambient
CB - Critical Barrier

Analyst: John Ndanga

Date 9/22/2024

YOTI N.N. & ASSOCIATES, INC (YNN)
Industrial Hygiene and Environmental Services

AIR SAMPLE DATA SHEET

Client: MCPS **Project Name:** Poolesville High School

Work Area: Pipe Trench **Date:** 10/12/2024

Sample NO.	Location / Code Relation to work	FLOW RATE Start	FLOW RATE End	Time On	Time Off	Total Time	Total Volume	Fibers	Fibers CC
101224-13	POST (Final Clearance)	10	10	14:00	16:00	120	1200	4	< 0.01
101224-14	BLK							→	NFO
101224-15	BLK							→	NFO

Abbreviations:

PRE - Pre-Abatement Sampling
OGBA - Outside Glove Bag Area
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PRS - Personal Sample
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NFO - No Fibers Observed
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AMB - Ambient
CB - Critical Barrier

Analyst: John Ndanga

Date 10/12/2024

VI. INDUSTRIAL HYGIENE CERTIFICATIONS

ATLAS

Approval No.: 21 13 01

Certificate of Achievement

Awarded to

John Ndanga

In recognition of successful completion of the course entitled

ASBESTOS ABATEMENT SUPERVISOR REVIEW

An 8-Hour annual refresher program of study presented in accordance with the provisions of the U.S Environmental Protection Agency Model Accreditation Plan 40 CFR Part 763, Appendix C to SUBPART E, for Accreditation under TSCA Title II

ATLAS

23-1103
Certificate Number

Location: Columbia, MD

Clayton E. Miller Course Instructor

November 18, 2023
Examination Date

November 18, 2023
Course Date

November 18, 2024
Expiration Date

Carla M. Gomez Course Director

9231 Rumsey Road Columbia, Maryland 21045 410-381-0232 Office 410-423-9235 Direct

THE
DEEP SOUTH CENTER FOR OCCUPATIONAL HEALTH AND SAFETY

CERTIFIES THAT

John Ndanga

HAS SATISFACTORILY COMPLETED

Sampling and Evaluating Airborne Asbestos Dust—NIOSH 582
Birmingham, Alabama
November 9-12, 1987

AND IS HEREBY AWARDED THIS CERTIFICATE

PROGRAM DIRECTOR

COURSE INSTRUCTOR

The Deep South Center For OCCUPATIONAL HEALTH & SAFETY

A NIOSH-Supported Educational Resource Center
University of Alabama at Birmingham & Auburn University