



September 5, 2017

Mr. Richard Mueller  
Facilities Director  
**Pinelands Regional School District**  
565 Nugentown Road  
Little Egg Harbor, NJ 08087

**RE: Asbestos Roofing Removal Monitoring**  
**Pinelands High School**  
**Epic Project Number: 17-1052**

Dear Mr. Mueller:

This report contains the documentation associated with the removal of asbestos roofing at the Pinelands High School. Removal was performed August 2 – August 28, 2017.

## **Scope of Work**

The scope of work included the removal of asbestos roofing materials from specific sections of the Pinelands High School. The asbestos portion of the roof consisted of paper attached to roofing insulation. Please see the attached chart for removal areas.

In several areas where asbestos roofing was performed, the roof deck was perforated. This was a matter of concern, as care needed to be taken to eliminate or minimize asbestos paper entering the building during removal.

As a precaution, plastic barricades were erected inside the building beneath the extent of the asbestos roofing to minimize any contamination from entering the non-asbestos roofing portions of the building. It was also decided, shortly into the project, that the building would be vacant during the project except for construction personnel. Routine inspections were made inside the isolation barriers for the presence of asbestos paper.

Kobithen Roofing, Inc. (Kobithen) was the roofing contractor for the project. Removal was performed by properly trained Kobithen employees. Roofing was stripped with care taken to minimize damage to the asbestos paper backing. All roofing was immediately placed into dumpsters for proper disposal.

All project waste was transported to an approved disposal facility. Kobithen will provide all waste documentation directly to the District.

### **HEALTH**

Epic Environmental Services, LLC  
Tele: 856.205.1077

### **SAFETY**

1930 Brown Road  
www.epic-env.com

### **ENVIRONMENT**

Newfield, New Jersey 08344  
Fax: 856.205.0413

## **Air Sampling**

Due to concerns over potential asbestos exposure inside the school, daily quality assurance (area) air sampling was begun on August 2, 2017, and continued daily during asbestos roofing removal for approximately two weeks. Once it was established that roofing removal was not impacting areas outside the containment barriers, sampling frequency was reduced. Phase Contrast Microscopy (PCM) air samples were collected each shift. Sample results were reported to New Road Construction, as well as weekly summaries for the first two weeks.

Two PCM air samples were collected inside the barriers on August 22, 2017 to assess conditions before final clean-up. One sample was over 0.010 f/cc, and one was overloaded. The overloading was caused by general construction dust generated by activities occurring on the roof.

One Transmission Electron Microscopy (TEM) air sample was collected inside the barriers on August 24, 2017 to establish if airborne fibers present are asbestos. Asbestos fiber levels were below the standard occupancy level of 70 structures / mm<sup>2</sup> (NONE DETECTED), strongly indicating that airborne results from August 22 were not evidence of asbestos contamination but rather non-asbestos fibers.

Final PCM samples were collected on August 30, 2017 after all areas within the barriers were cleaned. All results were below 0.010 f/cc, and Kobithen was given permission to remove the barriers.

Please see the attached Air Sampling Summaries for sample results.

## **Bulk Sampling**

A sample of roofing debris was collected on August 24. The sample was non-asbestos. Please see the attached Bulk Sample Summary for results.

### **The following Project Documentation is attached:**

PCM Area Air Sample Results & Chain of Custody Documentation  
TEM Post Removal Results & Chain of Custody Documentation  
Bulk Sample Results and Chain of Custody Documentation  
Certifications  
Project Notes and Logs

**Epic Environmental Services, LLC** would be pleased to manage your regulatory and environmental compliance programs, and we are confident that our presence will ensure your district's full compliance with the various federal and state regulations. Please feel free to call me at 856-205-1077 should you have any questions.

An invoice for the completed project is enclosed.

Regards,



James Eberts  
President

Attachments

## PCM Area Sampling Summary

### August 2, 2017

<u>Sample Location</u>	<u>Analysis Performed</u>	<u>Result</u>
Hallway by Atrium 041722672-0001	NIOSH 7400	0.008 fibers/cc
Auditorium, near rear Entrance 041722672-0002	NIOSH 7400	0.003 fibers/cc
Gymnasium, Center 041722672-0003	NIOSH 7400	0.007 fibers/cc

### August 3, 2017

<u>Sample Location</u>	<u>Analysis Performed</u>	<u>Result</u>
Hallway by Atrium 041722820-0001	NIOSH 7400	0.002 fibers/cc
Auditorium, near rear Entrance 041722820-0002	NIOSH 7400	<0.002 fibers/cc
Gymnasium, Center 041722820-0003	NIOSH 7400	<0.002 fibers/cc

### August 7, 2017

<u>Sample Location</u>	<u>Analysis Performed</u>	<u>Result</u>
Auditorium, Left Rear 041723203-0001	NIOSH 7400	0.004 fibers/cc
Hall by Auditorium 041723203-0002	NIOSH 7400	0.005 fibers/cc
Gymnasium, Center 041723203-0003	NIOSH 7400	0.005 fibers/cc

### August 10, 2017

<u>Sample Location</u>	<u>Analysis Performed</u>	<u>Result</u>
Auditorium, Left Rear 041723629-0001	NIOSH 7400	0.005 fibers/cc
Hall by Auditorium 041723629-0002	NIOSH 7400	0.003 fibers/cc

## PCM Area Sampling Summary (Continued)

### August 11, 2017

<u>Sample Location</u>	<u>Analysis Performed</u>	<u>Result</u>
Auditorium, Left Rear 041723783-0001	NIOSH 7400	0.009 fibers/cc
Hall by Auditorium 041723783-0002	NIOSH 7400	0.004 fibers/cc

---

### August 13, 2017

<u>Sample Location</u>	<u>Analysis Performed</u>	<u>Result</u>
Auditorium, Left Rear 041724222-0001	NIOSH 7400	0.003 fibers/cc
Hall by Auditorium 041724222-0002	NIOSH 7400	0.005 fibers/cc

---

### August 14, 2017

<u>Sample Location</u>	<u>Analysis Performed</u>	<u>Result</u>
Hallway by Room 174 041724225-0001	NIOSH 7400	<0.003 fibers/cc
Hall by Auditorium 041724225-0002	NIOSH 7400	<0.003 fibers/cc

---

### August 16, 2017

<u>Sample Location</u>	<u>Analysis Performed</u>	<u>Result</u>
Hall by Auditorium 041724219-0001	NIOSH 7400	0.006 fibers/cc
Hallway by Room 174 041724219-0002	NIOSH 7400	0.004 fibers/cc
Entry Foyer / Lobby 041724219-0003	NIOSH 7400	<0.002 fibers/cc

---

## PCM Area Sampling Summary (Continued)

### August 19, 2017

<u>Sample Location</u>	<u>Analysis Performed</u>	<u>Result</u>
Hallway by Room 174 041724603-0001	NIOSH 7400	0.003 fibers/cc
Hall by Auditorium 041724603-0002	NIOSH 7400	0.003 fibers/cc

---

### August 22, 2017

<u>Sample Location</u>	<u>Analysis Performed</u>	<u>Result</u>
Hallway by Room 174 041724860-0001	NIOSH 7400	0.004 fibers/cc
Room 179 041724860-0002	NIOSH 7400	0.021 fibers/cc
Hallway by Room 168 041724860-0003	NIOSH 7400	OVERLOADED

---

### August 30, 2017

<u>Sample Location</u>	<u>Analysis Performed</u>	<u>Result</u>
Hallway by Room 176 041725758-0001	NIOSH 7400	0.004 fibers/cc
Room 178 041725758-0002	NIOSH 7400	0.005 fibers/cc
Room 179 041725758-0003	NIOSH 7400	0.005 fibers/cc
Room 180 041725758-0004	NIOSH 7400	0.007 fibers/cc
Room 163 041725758-0005	NIOSH 7400	0.003 fibers/cc
Room 162 041725758-0006	NIOSH 7400	0.005 fibers/cc

---

## TEM Sampling Summary

August 24, 2017

**Sample Location**

Hallway by Room 179  
041725113-0001

**Analysis Performed**

AHERA 40 CFR, Part 763 Subpart E

**Result**

<15.00 S/mm<sup>2</sup>

## Bulk Sampling Summary Roofing Debris

August 24, 2017

**Sample Name /  
Sample Location**

RD-01  
Room 179  
041725114-001

**Analysis Performed**

PLM - Standard Prep

**Result**

No Asbestos Detected