September 10, 2017

Mr. Stephen J. Brennan, MBA, CPA
Business Administrator
Pinelands Regional School District
565 Nugentown Road
Little Egg Harbor, NJ 08087

RE: Asbestos Roofing Removal Monitoring, Continuing Issues
Pinelands High School
Epic Project Number: 17-1052

Dear Mr. Brennan:

This report contains the documentation associated with continuing asbestos roof replacement issues with at the Pinelands Regional High School.

Epic was asked to investigate potential roof debris located above ceilings in classrooms and hallways below areas where asbestos containing roofing materials were removed in August 2017. Asbestos roofing was removed from solid metal decking, as well as from several classrooms (176, 177, 178, and 179) with perforated metal (acoustic) decking.

Previous post roof removal visual inspections focused on the classrooms with perforated decking, which were cleaned. Representative bulk and air samples were collected from areas below the asbestos deck. Bulk sampling of the debris from the deck showed no asbestos contamination. Final PCM samples were collected on August 30, 2017. Results were below 0.010 f/cc, and Kobithen was given permission to remove plastic interior barriers that sepatrated the asbestos roof areas from non-asbestos roof areas.

Epic was asked to visit the school on September 8, 2017 to inspect above suspended ceilings in the areas where asbestos ceilings were removed. These areas showed that debris was not cleaned in the spaces where there are ceiling tiles present. Epic met with school administrative staff to discuss the issue. It was relayed that asbestos materials were not expected in the debris, as it was recently sampled and was found to be non-asbestos. It was agreed that the debris should be cleaned, and that asbestos contamination is not expected or likely. A bulk sample of the debris above the ceiling was collected. This sample was shown to be non-asbestos (less than 1%).

Epic was again contacted later in the day to assist with new issue that came to light after leaving the site. Debris was falling to the ground in classrooms 176, 177, 178, and 179. An investigation by New Road Construction Management discovered that the cleaning of the exterior of the metal deck was incomplete prior to the installation of the new roof. Bulk samples were collected and confirmed that the debris **on** the roof contained asbestos.

At this time, it is assumed that the cleaning of the entire roof in the areas containing asbestos was incomplete, and small amounts of asbestos roofing remain in the flutes. After discussions with New Road Construction and Garrison Architects, it was decided that bulk samples of the new debris in the classrooms and Transmission Electron Microscopy (TEM) air samples should be collected to assess this emergent issue.

On September 9, 2017, Epic collected two bulk samples of the new debris and six air samples in the areas below the asbestos roofing. The bulk samples were non asbestos (none detected) and no asbestos was detected in any of the air samples collected.

Based on this evidence, there is no evidence that either the asbestos removal activities or the newly discovered issue have impacted the air quality in the school, and that airborne asbestos contamination is not present in the school.

However, there is asbestos containing debris remaining on the roof deck, and it must be removed. In its present state, there is the potential for roofing debris to continue to enter the school, especially for classrooms with a perforated deck. Construction activities will continue to deteriorate the debris and will cause safety hazards and air quality issues. Based on previous data, asbestos contamination inside the building is not expected during this process.

It is recommended that rooftop activities cease immediately until a permanent remedy for this situation is determined. Debris is not expected to enter the areas in question if no rooftop activities are occurring. Therefore, classrooms in this section of the school may remain occupied when there is no rooftop work occurring directly overhead.

As an added precaution, it is recommended that routine air sampling for asbestos and total dust be performed in the areas beneath the asbestos roofing areas to verify continued satisfactory air quality.

Please see the attached summary tables for sample results. Certificates of analysis are also attached.

Regards,

James Eberts
President

Attachments

TEM Sampling Summary

September 9, 2017

Sample Location	Analysis Performed	Result
Room 176 041726713-0001	AHERA 40 CFR, Part 763 Subpart E	<13.00 S/mm²
Room 177/178 041726713-0002	AHERA 40 CFR, Part 763 Subpart E	<13.00 S/mm²
Room 179 041726713-0003	AHERA 40 CFR, Part 763 Subpart E	<13.00 S/mm²
Hallway by Room 179 041726713-0004	AHERA 40 CFR, Part 763 Subpart E	<13.00 S/mm²
Room 172 041726713-0005	AHERA 40 CFR, Part 763 Subpart E	<13.00 S/mm²
Hallway by Main Entrance 041726713-0006	AHERA 40 CFR, Part 763 Subpart E	< 7.00 S/mm²

Bulk Sampling Summary
Roofing Debris

September 8, 2017

Sample Name / Sample Location	Analysis Performed	Result
RD-01 Debris - Roof 041726632-001	PLM - Standard Prep	<1 % Chrysotile
RD-02 Debris - Roof 041726632-002	PLM - Standard Prep	10 % Chrysotile
RD-03 Room 176-Above Ceiling 041726632-003	PLM - Standard Prep	<1% Chrysotile

September 8, 2017

Sample Name / Sample Location	Analysis Performed	Result
PD-01 Chair – Room 179 041726714-001	PLM - Standard Prep	None Detected
RD-02 Table, Room 178 041726714-002	PLM - Standard Prep	None Detected