ENVIRONMENTAL COMPLIANCE SERVICES, INC.

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Mr. John Lebeaux
Town Administrator
Town of Princeton
6 Town Hall drive
Princeton, MA 01541

April 4, 2014

RE: Thomas Prince School
Recent PCB Wipe Sampling

Dear Mr. Lebeaux,

During December 2013 and January 2014, wipe sampling was performed on the interior/exterior concrete block walls that are located adjacent to the windows in classrooms 100, 102, 104, 106, 108, 110, 201, 203, 205, 207, 209 & 211, located at the Thomas Prince School. These walls had been coated with epoxy during the remediation that occurred in 2012 & 2013. During the December sampling, PCB's were detected in three of the samples at levels above the EPA regulatory exposure levels for schools of 1 ug/100 $cm^2$ as indicated by the following:

- 1.21 ug/100 $cm^2$ – interior of classroom 201;
- 1.1 ug/100 $cm^2$ – interior of classroom 203, and;
- 1.7 ug/100 $cm^2$ - interior classroom 205.

The January sampling was performed to confirm the December results and the samples were split between two independent laboratories so that each lab essentially received the same sample sets. The newer results confirmed the previous ones except that the samples from room 203 exhibited PCB concentrations below 1 ug/100 $cm^2$. PCB's were not detected above 1 ug/100 $cm^2$ in any of the other classroom samples.

In February 2014, ECS re-applied two coats of epoxy to the concrete block areas in rooms 201, 203 & 205 to which it had previously been applied. ECS re-sampled the epoxy coated concrete block from room 205 and no PCB's were detected. Refer to the attached table for results of the wipe sampling performed during December 2013, and January/February 2014.

Sincerely,

Environmental Compliance Services, Inc.

Charles E. Klingler, LSP
Worcester Branch Manager

**Town of Princeton**
**Thomas Prince School**
**170 Sterling Road**
**Princeton, Massachusetts**

# Table 1
# 2013 - ANNUAL CLASSROOM WIPE SAMPLE RESULTS

**Quantitative Analysis**
**Surface Wipes**
**USEPA Method 3540C 8082**

| SAMPLE ID | Date | Aroclor | Concentration ug/100cm$^2$ | Notes | SAMPLE LOCATION and COMMENTS |
|---|---|---|---|---|---|
| 201 Int | 12/23/2013 | 1254 | **1.21** | 1, 4 | First block up from bottom, middle block between windows |
| 201A | 1/24/2014 | 1254 | 0.675 | 4 | First block up from bottom, middle block between windows |
| 201B | 1/24/2014 | 1254 | **1.01** | 4 | First block up from bottom, middle block between windows |
| 201C | 1/24/2014 | 1254 | 0.704 | 4 | 2nd block up from bottom, middle block between windows |
| 201D | 1/24/2014 | 1254 | 0.78 | 4 | 2nd block up from bottom, middle block between windows |
| 201 Int Average | | 1254 | 0.88 | | Interior - Prior to re-epoxy |
| 201 Ext | 12/23/2013 | 1254 | 0.182 | 2, 4 | Exterior Sill |
| 203 Int | 12/23/2013 | 1254 | **1.1** | 1, 4 | First block up from bottom, middle block between windows |
| 203A | 1/24/2014 | 1254 | 0.437 | 4 | First block up from bottom, middle block between windows |
| 203B | 1/24/2014 | 1254 | 0.73 | 4 | First block up from bottom, middle block between windows |
| 203C | 1/24/2014 | 1254 | 0.772 | 4 | 2nd block up from bottom, middle block between windows |
| 203D | 1/24/2014 | 1254 | 0.68 | 4 | 2nd blockup from bottom, middle block between windows |
| 203 Int Average | | 1254 | 0.65 | | Interior - Prior to re-epoxy |
| 203 Ext | 12/23/2013 | | <0.1 | 4 | North side, north column, 2 feet high - Exterior |
| 205 Int | 12/23/2013 | 1254 | **1.7** | 1, 4 | 5th block up from bottom, middle block between windows |
| 205A | 1/24/2014 | 1254 | **1.7** | 4 | 4th block up from bottom, middle block between windows |
| 205B | 1/24/2014 | 1254 | **1.22** | 4 | 4th block up from bottom, middle block between windows |
| 205C | 1/24/2014 | 1254 | **1.25** | 4 | 5th block up from bottom, middle block between windows |
| 205D | 1/24/2014 | 1254 | **1.75** | 4 | 5th block up from bottom, middle block between windows |
| 205 Int Average | | 1254 | **1.47** | | Interior Prior to re-epoxy |
| 205 E Int | 2/24/2014 | | <0.1 | 6 | Interior - Post epoxy coating, 4th block up from bottom, middle block. Representative of conditions following re-epoxy for classrooms 201, 203 & 205. |
| 207 Int | 12/23/2013 | | <0.1 | 5 | 5th block up from bottom, middle block between windows |
| 207 Ext | 12/23/2013 | | <0.1 | 4 | South side, southern most center column, 5.5 feet high - Exterior |
| 209 Int | 12/23/2013 | | <0.1 | 5 | 3rd block up from bottom, middle block between windows |
| 211 Int | 12/23/2013 | | <0.1 | 5 | 3rd block up from bottom, middle block between windows |
| 211 Ext | 12/23/2013 | 1254 | 0.605 | 1,4 | Northern sill - Exterior |
| 211Ext | 12/23/2013 | 1254 | 0.119 | 1,4 | Southern sill - Exterior |
| 100 Int | 12/23/2013 | 1254 | 0.202 | 1, 4 | 2nd block from bottom, south side of window, inside block perpendicular to window |
| 100 Ext | 12/23/2013 | | <0.1 | 4 | North side, center column, 7 feet high - Exterior |
| 102A | 1/24/2014 | | <0.1 | 4 | 5th/6th block up from bottom, perpendicular to window - north |
| 102B | 1/24/2014 | | <0.2 | 4 | 5th/6th block up from bottom, perpendicular to window - south |
| 104A | 1/24/2014 | | <0.1 | 4 | 3rd/4th block up from bottom, perpendicular to window - north |
| 104B | 1/24/2014 | | <0.2 | 4 | 3rd/4th block up from bottom, perpendicular to window - south |
| 106 Int | 12/23/2013 | 1254 | 0.150 | 1, 4 | 3rd block from bottom, south side of window, inside block perpendicular to window |
| 106 Ext | 12/23/2013 | | <0.1 | 4 | South side, center column, 5 feet high |
| 108 Int | 12/23/2013 | 1254 | 0.653 | 1, 4 | Bottom block under window, 2nd block from south side |
| 108A | 1/24/2014 | | <0.1 | 4 | Bottom block, 1st from south |

# Table 1
## 2013 - ANNUAL CLASSROOM WIPE SAMPLE RESULTS



| SAMPLE ID | Date | Aroclor | Concentration ug/100cm$^2$ | Notes | SAMPLE LOCATION and COMMENTS |
|---|---|---|---|---|---|
| 108B | 1/24/2014 | | <0.2 | 4 | Bottom block, 3rd from south |
| 108C | 1/24/2014 | | <0.1 | 4 | 4th/5th block up from bottom, perpendicular to window - south |
| 108D | 1/24/2014 | | <0.2 | 4 | 4th/5th block up from bottom, perpendicular to window - north |
| 108 Ext | 12/23/2013 | | <0.1 | 4 | Bricks # 20-21, north end |
| 110 Int | 12/23/2013 | 1248 | 0.132 | 3, 4 | 3rd block from bottom, north side of window, inside block perpendicular to window |
| 110 Ext | 12/23/2013 | | <0.1 | 4 | North side of southern column |
| Paint-1 | 1/25/2014 | | <63.2 ug/L | | sample of liquid latex paint that covers interior epoxy coating |
| Paint-1 | 1/25/2014 | | <2.8 mg/Kg | | sample of liquid latex paint that covers interior epoxy coating |
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Notes:
All samples collected as hexane wipes over a 100 square centimeter (cm$^2$) area.
Samples with suffix A or C analyzed by Pace.
Samples with suffix B or D analyzed by Spectrum.
Regulatory exposure limit for unrestricted use in school is 1 ug/100 cm$^2$
<0.1 = Not Detected at the Practical Quantitation Limit (PQL).
Bold indicates value greater than 1 ug/100 cm$^2$
Yellow Highlight indicates value following cleaning and/or sealant encapsulation of indicated item
Sealant encapsulation completed using 2 applications of Sikagard® 62, an epoxy sealant

1.) Aroclor 1254 being reported as the best Aroclor match. The sample exhibits an altered PCB pattern.
2). Aroclor 1254 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1254 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.
3). Aroclor 1248 is being used to report an altered PCB pattern exhibited by the sample. Actual Aroclor 1248 is not present in the sample, but is reported to more accurately quantify PCB present in sample that has undergone environmental alteration.
4). Epoxy coating covered by veneer of latex paint.
5). Epoxy coating not covered by veneer of latex paint.
6). Sampled on new epoxy coating.
Representative Interior Wipe samples.