January 4, 2018

Dr. Cheryl Stevenson, Ed.D
Acting Superintendent
Pinelands Regional School District
520 Nugentown Road, Little Egg Harbor, New Jersey 08087

Reference: Soil Sampling – Pineland Regional HS & Jr. HS
Pinelands Regional High School
TTI Project No. 17-1224

Dear Dr. Stevenson:

On December 11 & 12, 2017, TTI Environmental, Inc.’s (TTI) United States Environmental Protection Agency (USEPA) Accredited Asbestos Building Inspectors, Adam Culliton (#ACC-0617-6-006), Kristopher Smith (#48925) and James Orgera (#ACC-0617-6-006) collected bulk soil samples for suspect asbestos-containing roofing materials on the grounds and sports fields adjacent to the Pinelands Regional HS and Junior HS. Additional samples were also collected at the Rainbow Express playground (post mulch removal). A site plan of the sampling locations can be found in Attachment 2.0.

Samples were collected at random locations using a pre-mapped grid structure of the athletic fields. Dimensions of sample locations were of an 8” x 8” section with a depth of 3”. A top layer with a 1” depth and a separate bottom layer with a 2” depth was collected and labeled using the identified grid structure.

TTI collected a total of sixty-four (64) samples. Laboratory analysis were performed by an Accredited Laboratory and included Polarized Light Microscopy (PLM) methodology. Six (6) of the sixty-four (64) samples collected were chosen to be additionally analyzed via Transmission Electron Microscopy (TEM). Laboratory analysis revealed that all samples (Table 1.0) were none-detected for asbestos content. A copy of the laboratory report is included in Attachment 1.0. The Environmental Protection Agency (EPA) defines asbestos-containing building materials as any building material which contains greater than one (1) percent asbestos.

<table>
<thead>
<tr>
<th>No.</th>
<th>Location</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>None of the Samples Contained Any Detectable Level of Asbestos - (None Detected)</td>
<td>Results</td>
</tr>
</tbody>
</table>

In summary, the visual inspection performed by TTI on November 28, 2017 and in conjunction with the analytical results of samples collected on the above referenced dates did not reveal any conditions that would restrict or interfere with resuming normal use.

If you should have any questions or require additional information, please feel free to contact me directly.

Sincerely,

TTI ENVIRONMENTAL, INC.

James A. Guilardi
Senior Project Manager

A Service Disabled Veteran Owned Small Business (SDVOSB)
Providing Environmental Solutions Nationwide
ATTACHMENT 1.0

SAMPLING DATA AND ANALYTICAL RESULTS
### Test Report: Asbestos Analysis of Soils via EPA 600/R-93/116 Method using PLM and Milling Prep. Quantitation using 400 Point Count Procedure

<table>
<thead>
<tr>
<th>Sample</th>
<th>Description</th>
<th>Appearance</th>
<th>Non-Asbestos</th>
<th>Asbestos</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-1-Top</td>
<td>Sport Fields</td>
<td>Brown Non-Fibrous Homogeneous</td>
<td>100% Non-fibrous (Other)</td>
<td>None Detected</td>
</tr>
<tr>
<td>A-1-Bottom</td>
<td>Sport Fields</td>
<td>Brown Non-Fibrous Homogeneous</td>
<td>100% Non-fibrous (Other)</td>
<td>None Detected</td>
</tr>
<tr>
<td>A-2-Top</td>
<td>Sport Fields</td>
<td>Brown Non-Fibrous Homogeneous</td>
<td>100% Non-fibrous (Other)</td>
<td>None Detected</td>
</tr>
<tr>
<td>A-2-Bottom</td>
<td>Sport Fields</td>
<td>Brown Non-Fibrous Homogeneous</td>
<td>100% Non-fibrous (Other)</td>
<td>None Detected</td>
</tr>
<tr>
<td>B-1-Top</td>
<td>Sport Fields</td>
<td>Brown Non-Fibrous Homogeneous</td>
<td>100% Non-fibrous (Other)</td>
<td>None Detected</td>
</tr>
<tr>
<td>B-1-Bottom</td>
<td>Sport Fields</td>
<td>Brown Non-Fibrous Homogeneous</td>
<td>100% Non-fibrous (Other)</td>
<td>None Detected</td>
</tr>
<tr>
<td>B-2-Top</td>
<td>Sport Fields</td>
<td>Brown Non-Fibrous Homogeneous</td>
<td>100% Non-fibrous (Other)</td>
<td>None Detected</td>
</tr>
<tr>
<td>B-2-Bottom</td>
<td>Sport Fields</td>
<td>Brown Non-Fibrous Homogeneous</td>
<td>100% Non-fibrous (Other)</td>
<td>None Detected</td>
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<tr>
<td>C-1-Top</td>
<td>Sport Fields</td>
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</tr>
<tr>
<td>C-1-Bottom</td>
<td>Sport Fields</td>
<td>Brown Non-Fibrous Homogeneous</td>
<td>100% Non-fibrous (Other)</td>
<td>None Detected</td>
</tr>
</tbody>
</table>

Disclaimer: Some samples may contain asbestos fibers present in dimensions below PLM resolution limits. The limit of detection as stated in the method is 0.25%. EMSL Analytical Inc suggests that samples reported as <0.25% or none detected undergo additional analysis via TEM. The above test report relates only to the items tested. This report may not be reproduced, except in full, without written approval of EMSL Analytical Inc. This test report must not be used by the client to claim product endorsement by NVLAP or any agency of the United States Government. EMSL Analytical Inc., bears no responsibility for sample collection activities, analytical method limitations, or the accuracy of results when requested to separate layered samples. EMSL Analytical Inc., liability is limited to the cost of sample analysis. The test results contained within this report meet the requirements of NELAC unless otherwise noted. Samples received in good condition unless otherwise noted. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample.

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036, PA ID# 68-00367

Initial report from: 12/21/2017 06:30:47

Printed 12/21/2017 6:30:50AM

<table>
<thead>
<tr>
<th>Sample</th>
<th>Description</th>
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<th>% Fibrous</th>
<th>% Non-Fibrous</th>
<th>% Type</th>
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</thead>
<tbody>
<tr>
<td>C-2-Top</td>
<td>Sport Fields</td>
<td>Brown</td>
<td>100% Non-fibrous (Other)</td>
<td>Non-fibrous (Other) 100%</td>
<td>None Detected</td>
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<td>C-2-Bottom</td>
<td>Sport Fields</td>
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<th>Sample</th>
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<th>% Fibrous</th>
<th>% Non-Fibrous</th>
<th>% Type</th>
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<th>% Non-Fibrous</th>
<th>% Type</th>
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<tbody>
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<td>H-2-Top</td>
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<td>I-2-Bottom</td>
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<tr>
<td>J-1-Bottom</td>
<td>Sport Fields</td>
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<td>J-2-Top</td>
<td>Sport Fields</td>
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<tr>
<td>J-2-Bottom</td>
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<th>Sample</th>
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<th>% Fibrous</th>
<th>% Non-Fibrous</th>
<th>% Type</th>
</tr>
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<tbody>
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Disclaimer: Some samples may contain asbestos fibers present in dimensions below PLM resolution limits. The limit of detection as stated in the method is 0.25%. EMSL Analytical Inc suggests that samples reported as <0.25% or none detected undergo additional analysis via TEM. The above test report relates only to the items tested. This report may not be reproduced, except in full, without written approval of EMSL Analytical Inc. This test report must not be used by the client to claim product endorsement by NVLAP or any agency of the United States Government. EMSL Analytical Inc., bears no responsibility for sample collection activities, analytical method limitations, or the accuracy of results when requested to separate layered samples. EMSL Analytical Inc., liability is limited to the cost of sample analysis. The test results contained within this report meet the requirements of NELAC unless otherwise noted. Samples received in good condition unless otherwise noted. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample.

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036, PA ID# 68-00367

Initial report from: 12/21/2017 06:30:47

Printed 12/21/2017 6:30:50AM

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<thead>
<tr>
<th>Sample</th>
<th>Description</th>
<th>Appearance</th>
<th>% Fibrous</th>
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<th>% Type</th>
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Disclaimer: Some samples may contain asbestos fibers present in dimensions below PLM resolution limits. The limit of detection as stated in the method is 0.25%. EMSL Analytical Inc suggests that samples reported as <0.25% or none detected undergo additional analysis via TEM. The above test report relates only to the items tested. This report may not be reproduced, except in full, without written approval of EMSL Analytical Inc. This test report must not be used by the client to claim product endorsement by NVLAP or any agency of the United States Government. EMSL Analytical Inc., bears no responsibility for sample collection activities, analytical method limitations, or the accuracy of results when requested to separate layered samples. EMSL Analytical Inc., liability is limited to the cost of sample analysis. The test results contained within this report meet the requirements of NELAC unless otherwise noted. Samples received in good condition unless otherwise noted. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample.

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036, PA ID# 68-00367

Printed 12/21/2017 6:30:50AM
EMSL Order: 041735493  
Customer ID: TTI54  
Customer PO: 024105  
Project ID:  


<table>
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<tr>
<th>Sample</th>
<th>Description</th>
<th>Appearance</th>
<th>% Fibrous</th>
<th>% Non-Fibrous</th>
<th>% Type</th>
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<td>P-01-Top 041735493-0061</td>
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<td>P-02-Top 041735493-0063</td>
<td>Playground</td>
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</tbody>
</table>

Analyst(s)  
Garret Vliet (10)  
Nancy Stalter (32)  
Will DiBella (22)  

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Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036, PA ID# 68-00367  

Initial report from: 12/21/2017 06:30:47  
Printed 12/21/2017  6:30:50AM
### TEM EPA 600/R-93/116:

**Analysis of Soil Material Utilizing Analytical Electron Microscopy (Section 2.5.5.2) with Milling Prep**

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<th>Client Sample ID</th>
<th>Location</th>
<th>Mineral Type(s)</th>
<th># of Structures Detected</th>
<th>Analytical Sensitivity</th>
<th>Asbestos Weight</th>
<th>Comments</th>
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<tr>
<td>B-1-Top</td>
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<td>&lt; 0.1</td>
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<td>No Asbestos Detected</td>
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<td>Sport Fields</td>
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<td>P-02-Top</td>
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<tr>
<td>041735493-0063</td>
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</tbody>
</table>

---

**S. Burany**  
Analyst

---

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL is not responsible for sample collection activities or analytical method limitations. Interpretation and use of results are the responsibility of the client.
Chain of Custody

EMSL Order Number (Lab Use Only):

OrderID: 041735493

Company: TJS Environmental, Inc.

Street: 1253 S. Church St.

City: Moorestown State/Province: NJ Zip/Postal Code: 08057 Country: USA

Report To (Name): John Conlon Fax #: 0245 Phone: 0745

Telephone #: 856-840-8500

Email Address: 

Project Number/Name: 17-12-24 Please Provide Results: Fax Email Mail

U.S. State Samples Taken: NJ

Third Party Billing requires written authorization from third party

Connecticut Samples: Commercial Residential

Turnaround Time (TAT) Options - Please Check

[ ] 3 Hour [ ] 6 Hour [ ] 24 Hour [ ] 48 Hour [ ] 72 Hour [ ] 96 Hour [ ] 1 Week [ ] 2 Week

For RUSH TATs, please call ahead to confirm lab hours and availability. Not all TAT options are valid for every test. Materials Science and IAQ TATs are in business days rather than hours (i.e. 24 Hour = End of Next Business Day)

Asbestos

<table>
<thead>
<tr>
<th>PCM - Air</th>
<th>PLM - Bulk</th>
<th>TEM - Bulk</th>
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<tbody>
<tr>
<td>NIOSH 7400</td>
<td>PLM EPA 600/R-93/116</td>
<td>TEM EPA NOB</td>
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<tr>
<td>w/8hr TWA</td>
<td>PLM EPA NOB (&lt;1%)</td>
<td>NYS NOB 198.4 (non-friable-NY)</td>
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<td>TEM - Air</td>
<td>NYS 198.1 (friable-NY)</td>
<td>Chatfield SOP</td>
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<td>AHERA 40 CFR, Part 763</td>
<td>NYS 198.8 (non-friable-NY)</td>
<td>Soil/Rock Vermiculite</td>
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<td>ISO 10312</td>
<td>Point Count (% of fibers) 1000 (&lt;0.1%)</td>
<td>PLM CARB 455 - A (0.25% sensitivity)</td>
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<td>TEM - Water</td>
<td>Point Count % on Gravimetric 400 (&lt;0.25%)</td>
<td>PLM CARB 455 - B (0.1% sensitivity)</td>
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<td>Fibers &gt; 10 um</td>
<td>TEM - Dust</td>
<td>TEM CARB 455 - B (0.1% sensitivity)</td>
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<td>All Fiber Sizes</td>
<td>Microvac - ASTM D 5755</td>
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<td>Waste</td>
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Lead (Pb)

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<td>Soil SW846-7421</td>
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<td>Air NIOSH 7105</td>
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Materials Science

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<td>Wipe SW846-6010B or C</td>
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<td>Waste Water SW846-6010B or C</td>
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Microbiology

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<tr>
<td>Mold &amp; Fungi Culture (Genus Only)</td>
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<tr>
<td>Mold &amp; Fungi Culture (Genus &amp; Species)</td>
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<tr>
<td>Bacterial Culture &amp; ID (Up to Three Types)</td>
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<td>Bacterial Culture &amp; ID (Up to Five Types)</td>
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<td>Heterotrophic Plate Count (PP, SM 9215B)</td>
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<td>Fecal Coliform (SM 9222D)</td>
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**Comments/Special Instructions:**

See Attached Chain of Custodies

Client Sample #s: A-1 - P-2

Total # of Samples: 64

**Relinquished (Client):**

Date: 12/31/17

Time: 9:25

Received (Lab):

Date: 1/27/17

Time: 12:17
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**PLM Sampling Data and Chain of Custody Record**

**E-mail all results and C.O.C. To:** hj@labem.com

**Project #:** 12-13

**Date:** 13-17

**Facility:** 866-0-9000

**Customer:** 866-9-9000

**Client Contract:** 906-07

**Sample (s):** 9345-07

**Sample Method:** 9345-07

**Sample Unit:** 9345-07

**Sample Date:** 9345-07

**Sample Time:** 9345-07

**Sample Initials:** 9345-07

**Sample Notes:** 9345-07

**Sample Log:** 9345-07

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**Signatures:**

**Date:** 9345-07

**Time:** 9345-07

**Received by:** 9345-07

**Requalified by:** 9345-07

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**Note:** All data and results are subject to review and approval by the Client.
ATTACHMENT 2.0

SAMPLE LOCATION MAPS
* = Additional TEM Analysis Performed