October 2, 2020

Diana Kelley, CPPB
CIP Procurement Manager
Park Planning & Development
M-NCPPC, Department of Parks and Recreation, Prince George’s County
6600 Kenilworth Avenue, Riverdale, MD 20737

SUBJECT: Lead Testing Report for Prince George County Parks with Play Areas containing rubberized surfacing material -ALWE Project #20-8588

Dear Ms. Kelley:

Air, Land and Water Engineering, Inc. (ALWE) is pleased to submit this report for lead testing at the following Prince George County Parks addresses:

1. South Bowie Community Center: 1717 Pittsfield Lane Bowie, MD 20716
2. Walker Mill Regional Park: 8001 Walker Mill Road Capital Heights, MD 20743

SCOPE OF WORK:

1. ALWE performed lead dust wipe sampling at each of the above listed Park addresses. 5 dust wipe samples were taken from each play area.
2. Bulk samples of rubberized material were taken from the play areas where damaged or separation of areas were noted. 1 bulk sample of the black base layer was collected from each park. 4 samples of different colored rubberized top layer materials were collected from each park.
3. ALWE prepared this brief report with the attached results.

BACKGROUND:

ALWE was contracted to perform lead testing and analysis of rubberized play surfacing, either Poured in Place (PIP) or rubber tiles, in 2 parks in Prince George County. A recent evaluation of PIP play surfacing was also completed by the Department of General Services (DGS) in Washington, DC for public schools play areas. (refer to DGS website: https://dgs.dc.gov/publication/pip-playground%20test-results).

There are no lead standards for rubberized play surfacing; however, like DGS, Prince George County Parks elected to use the most stringent standard, which is the U.S. Environmental Protection Agency’s standard for lead on interior floors in housing. This standard sets a limit at 10 micrograms per square foot of lead for dust wipe samples (<10 ug/ft2).

Dust wipe sampling is done to collect any lead dust on the surfacing that may easily be transferrable to a child’s hands, shoes, clothes, etc. For that reason, lead detected in wipes represents the highest risk to children, while lead in wash water rinsate and lead in washed, clean bulk rubber samples pose much lower risks.

SAMPLING AND OBSERVATIONS:

- On September 28, 2020, Mrs. Katherine Kong (a MD licensed lead paint Inspector from ALWE) conducted lead dust wipe sampling and analysis of the above referenced properties.

The scope of work included collecting five dust wipes from within two feet or so from noted damaged areas or from a central location of the play area.

ALWE also noted where the play area was in poor condition or if patches were apparent. These bulk samples were analyzed by Flame Atomic Absorption (FAA).

Like DGS, Prince George County Parks elected to use the U.S. Environmental Protection Agency’s standard for lead in bare soil in children’s play areas to evaluate the rubber bulk samples. This standard sets a limit of 400 parts per million (ppm) (or 0.04%).

RESULTS:

**Dust Wipes**
The two play areas were tested by dust wipe sampling and had results below the standard of <10 ug/ft² of lead. Figures with the sample locations are included with the attachments.

**Bulk Samples**
Bulk samples were collected from damaged areas or where separation occurred between two colors of rubberized material. 5 samples were collected from each to the two parks. One sample was collected of the bottom black layer of the rubberized material. 4 samples of varying top layer colored rubberized material were also collected from each park. The ten bulk samples collected all had results of less than 400ppm of lead. Refer to the figures in each description below and notes regarding the play area conditions.

**South Bowie Community Center:**
South Bowie Community Center had 5 bulk samples taken of the rubberized material on September 28, 2020. The light purple sample had a result of 237ppm, the gray sample had a result of 19 ppm, the brown sample had a result of 9 ppm, the green sample had a result of 16 ppm, and the black bottom layer sample had a result of 9 ppm for lead. Each of these are below the 400ppm standard.

This PIP material was installed in 2010, and at the time of sampling there were a few small patches near the gate entrance to the park. Another patch was also noted at the ‘tail’ of the dragon. A few holes were present in where disks had been removed from the playground. The playground has 6 distinct colors of PIP material; Gray, blue, green, brown, light purple, and dark purple.

**Walker Mill Regional Park:**
Walker Mill Regional Park had 5 bulk samples taken of the rubberized material on September 28, 2020. The green sample had a result of 10 ppm, the brown sample had a result below the detection limit of 11ppm, the red brown sample had a result of 12 ppm, the blue sample had a
result of 13 ppm, and the black bottom layer sample had a result less than the detection limit of 10 ppm for lead. Each of these are below the 400 ppm standard.

The PIP material was installed in 2012, and at the time of sampling the only damaged area was below where the swing area. Discoloration of the PIP material was noted in the water park area, and on the blue river area of the material (where the sample 4 dust wipe was collected). This playground has many different colors of PIP material; green, light green, brown, red brown, yellow brown, blue, dark blue, black, etc.

RECOMMENDATIONS AND CONCLUSIONS:

The wipe samples near the damaged areas had results below the 10 ppm standard. The bulk samples were all below the Maryland bare soil standard for lead of 400ppm. Based on these results the PIP playgrounds do not pose a lead based hazard.

We are planning on collecting samples of the mulch like rubber material around the perimeter of the Walker Mill playground once the project is awarded.

Should you have any questions concerning this report, please call me at 410-997-0395.

Sincerely yours,

[Signature]

Laurence T. Brand, PE
Senior Engineer
Terms and limitations
ALWE has performed the Client requested tasks listed above in a thorough and professional manner consistent with commonly accepted standard industry practices. ALWE cannot guarantee and does not warrant that this LBP Testing has identified all adverse environmental factors and/or conditions affecting the subject property on the date of the inspection. ALWE cannot and will not warrant that the testing that was requested by the client will satisfy the dictates of, or provide a legal defense in connection with, any environmental laws or regulations. It is the responsibility of the client to know and abide by all applicable laws, regulations, and standards.

This inspection by ALWE is solely for the benefit of the client. The results and opinions in this report, based solely upon the conditions found on the property as of the date of the work, will be valid only as of the date of the inspection. ALWE assumes no obligation to advise the client of any changes in any real or potential lead hazards at this residence that may or may not be later brought to our attention.

All the professional opinions presented in this report are based solely on the scope of work conducted and sources referred to in our report. The data presented by ALWE in this report was collected and analyzed using generally accepted industry methods and practices at the time the report was generated. This report represents the conditions, locations, and materials that were observed at the time the field work was conducted. No inferences regarding other conditions, locations, or materials, at a later or earlier time may be made based on the contents of the report. No other warranty, express or implied is made. ALWE’s liability and that of its contractors and subcontractors, arising from any services rendered hereunder, shall not exceed the total fee paid by the client to ALWE for this project. This report was prepared for the sole use of our client. The use of this report by anyone other than our client or ALWE is strictly prohibited without the expressed prior written consent of ALWE. Portions of this report may not be used independent of the entire report.

Attachment: Test Results and Figures
Certificate of Analysis: Lead In Paint by EPA SW-846 7420 and 3050B*

Client: Air Land and Water Engineering Inc.  
10017 Hackberry Lane Suite 10  
Columbia, MD 21046  

Attn: Laurence Brand  
Email: lbrand@airlandwater.com  
Phone: 410 997-0395  
Fax: 734-641-1142  

Client Project: 20-8588  
Project Location: 1717 PITTSFIELD LN  

<table>
<thead>
<tr>
<th>Lab Sample ID</th>
<th>Client Code</th>
<th>Sample Description</th>
<th>PPM</th>
<th>Result Lead (%) by weight</th>
<th>Calculated R L (%) by weight</th>
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</table>

Analyst Signature

Elyse Bidle

Nathan Ditty

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* Reporting Limit: * For true values assume (2) significant figures. The method and batch QC is acceptable unless otherwise stated. Current EPAGUIDE Interim Standard for lead in paint samples is: 5000 PPM (parts per million) or ug/g which is equivalent to 0.5% by weight. AAT internal sop 3203. The laboratory operates in accord with ISO 17025 guidelines and holds limited scopes of accreditation under AHA-LAP and NV State DOH ELAP programs. These results are submitted pursuant to AAT LLC current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. Analytical results relate to the samples as received by the lab. AAT will not assume any liability or responsibility for the manner in which the results are used or interpreted. Reproduction of this document other than its entirety is not permitted. All Quality control requirements for samples this report contains have been met. AAT does not blank correct reported values. Sample data apply only to items analyzed. Samples are stored for 15 days following report date. *= Validated modified method

AHA-LAP - Lab ID #100986, NV State DOH ELAP - Lab ID #11964, State of Ohio- Lab ID # 10042

Date Printed: 09/29/2020 3:25PM  
AAT Project: 592336
Certificate of Analysis: Lead In Dust Wipe by EPA Method 7000B/3050B*

Client: Air Land and Water Engineering Inc.
10017 Hackberry Lane Suite 10
Columbia, MD 21046
Attn: Laurence Brand
Email: lbrand@airlandwater.com
Phone: 410 997-0365
Fax: 734-641-1142
Client Project: 20-8588
Project Location: 1717 PITTSFIELD LN

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<th>Lab Sample ID</th>
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Analyst Signature

Elyse Bidle

Nathan Ditty

ND = Not Detected, N/A = Not Available, RL = Reporting Limit, Analytical Reporting Limit is 5 µg/sample. For true values assume (2) significant figures. AAT internal SOP 5205. The method and batch QC are acceptable unless otherwise stated. MD Lead Regulatory Limits including Pb Clearance: 10 µg/R2 (Floors), 100 µg/R2 (Window Sills), 100 µg/R2 (Window Wells). The laboratory operates in accord with ISO 17025 guidelines and holds limited scopes of accreditation under AIHA-LAP and NY State DOH ELAP programs. These results are submitted pursuant to AAT, LLC current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. Analytical results relate to the samples as received by the lab. AAT will not assume any liability or responsibility for the manner in which the results are used or interpreted. All Quality Control requirements for the samples in this report contain have been met. AAT does not blank correct reported values. Sample data apply only to items analyzed. Results are calculated with wipe dimensions supplied by client. Reproduction of this document other than in its entirety is not authorized by AAT, LLC. * = Validated modified method. Samples are stored for 15 days following report date.

AIHA LAP: Lab ID #100666, NY State DOH ELAP: Lab ID #11684, State of Ohio: Lab ID # 10042

Date Printed: 09/28/2020
AAT Project: 592336

Page 1 of 3
Certificate of Analysis: Lead In Paint by EPA SW-846 7420 and 3050B*

Client : Air Land and Water Engineering Inc.  
10017 Heckberry Lane Suite 10  
Columbia, MD 21046

Attn : Laurence Brand  
Email : lbrand@airlandwater.com

Phone : 410 997-0395  
Fax : 734-641-1142

Client Project : 20-8588-2

Project Location : 8001 WALKER MILL RD

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Analyst Signature

Elyse Bidle

Nathan Ditty

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AHA LAP- Lab ID #100096, NY State DOH ELAP- Lab ID #11854, State of Ohio- Lab ID # 10042

Date Printed: 09/28/2020 3:25PM  
AAT Project: 592337
Certificate of Analysis: Lead In Dust Wipe by EPA Method 7000B/3050B*

Client: Air Land and Water Engineering Inc.
10017 Hackberry Lane Suite 10
Columbia, MD 21046

Attn: Laurence Brand
Email: lbrand@airlandwater.com
Phone: 410-997-0395
Fax: 734-641-1142

AAT Project: 592337
Sampling Date: 09/28/2020
Date Received: 09/29/2020
Date Analyzed: 09/29/2020
Date Reported: 9/29/2020 3:25:00PM

Client Project: 20-8558-2
Project Location: 8001 WALKER MILL RD

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</table>

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Nathan Ditty

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Chionanthus virginicus

So. Bowie CC mainly has separation where the colors change. It has 3 patched areas. Also 3 small holes where damaged disks were removed.

Please see stars for areas of concern
Walkie Mill

Patch near Solar Panel + bench

Swings impact lounge under swing

 lots of soil on playground
disclosure

re muh

Pump Station & Collection