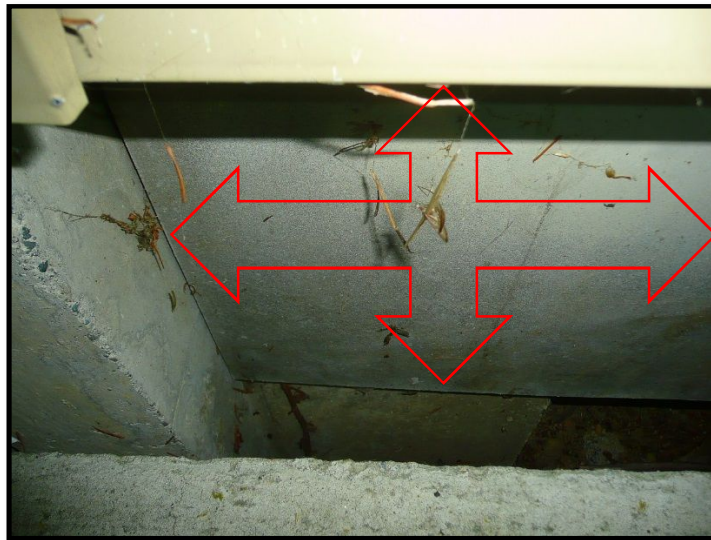


Exploration of the south concrete masonry unit wall of the Metal Storage Room #10. No indication of potential vermiculite insulation was found.



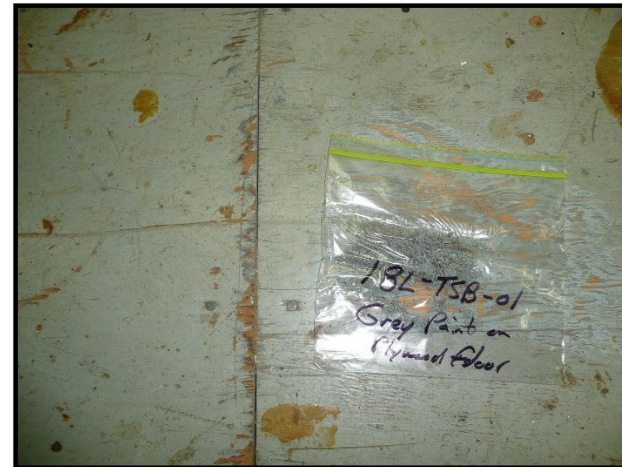
Southeast corner footing (left), tan metal siding (top), adjacent retaining wall (base) and concrete foundation slab cover of hard fireproof composite fibre cement board panelling (Transite Panel) (red arrows) which extends downward approximately 18" from the top side of the base sill plate (hidden).



Sample 17A-TSB-26 of sub-grade hard fireproof composite fibre cement board panelling (Transite Panel) (10 % Chrysotile) and Sample 17A-TSB-27 of fibreglass insulation with backing paper and black mastic large (None Detected) as collected from the east elevation at the entrance to the Carpenter Shop Room #7.



White Paint Sample 18L-TSB-00 from the interior side of wooden window frame in the Carpenters Shop Room # 7.



Grey Paint Sample 18L-TSB-01 and Painted Base Substrate TCLP Sample 18TCLP-TSB-01 from the plywood floor in the Carpenters Shop Room # 7.



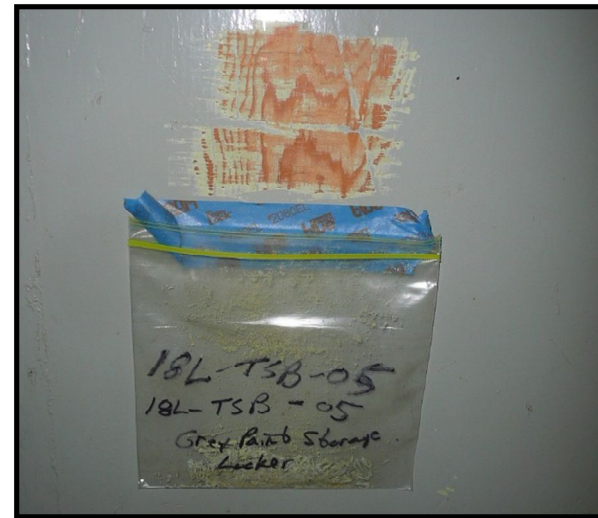
Green-Grey Paint Sample 18L-TSB-02 (left) from the interior door in the Carpenters Shop Room # 7 and same as Painted Base Substrate TCLP Sample 18TCLP-TSB-02 (right) from interior side of door to Paint Shop # 6.



Light Blue Paint Sample 18L-TSB-03 and Painted Base Substrate TCLP Sample 18TCLP-TSB-03 from the wooden work bench in the Carpenters Shop Room # 7.



Brown-Grey Paint on Orange Paint and White Paint Sample 18L-TSB-04 and Painted Base Substrate TCLP Sample 18TCLP-TSB-04 from the exterior door of the Paint Shop # 6.



Light Grey-Green Paint Sample 18L-TSB-05 and Painted Base Substrate TCLP Sample 18TCLP-TSB-05 from the built-in wooden lockers in the Lumber Storage Room # 8.



Tan Paint Sample 18L-TSB-06 from the exterior side of the wood siding (Original Cladding) at the east entrance



Tan Paint Sample 18L-TSB-07 from the exterior metal siding (Newer Cladding) of the buildings' northeast corner.

to the Carpenters Shop Room # 7.



Tan Paint Sample 18L-TSB-08 from the interior side of the east wood wall of the attached east canopy.



White Paint Sample 18L-TSB-11 and Painted Base Substrate TCLP Sample 18TCLP-TSB-11 from the wood exterior siding of the storage shed.



Dark Brown Paint Sample 18L-TSB-12 from the exterior side of wooden window frame at Paint Shop # 6 and Office #3.



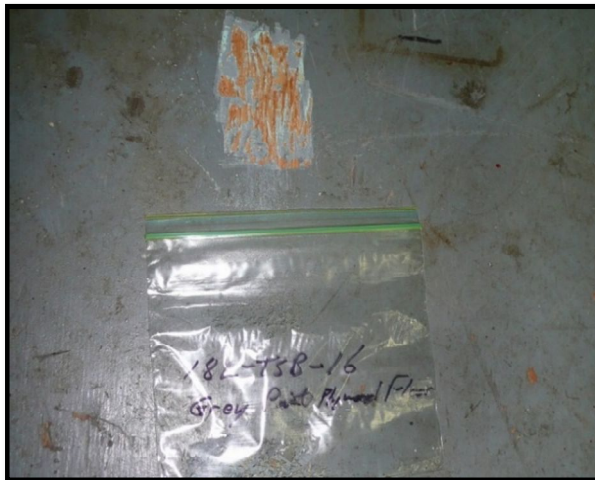
Dark Brown Paint Sample 18L-TSB-13 representative of the underside of the canopy over south staircase as collected from the east side of the Furnace Breaker Building.



Medium Green Paint Sample 18L-TSB-14 and  
Painted Base Substrate TCLP Sample 18TCLP-TSB-14  
from the Machine Shop benches and interior side of exit door.



Mint Green Paint Sample 18L-TSB-15 from the  
Machine Shop interior walls.



Grey Paint Sample 18L-TSB-16 from the  
machine shop interior plywood floor.



a.)



b.)



c.)



d.)



e.)

The preliminary TCLP analytical sample lead results for the medium green coloured paint on the Machine Shop: a.) east wood bench; b.) northwest cabinet; c.) southeast false double doors; d.) south-central door; and e.) interior side of sliding access exit door as represented by Sample ID 18TCLP-TSB-14 are in excess of the BC Ministry of Environment Special Waste criteria of 5mg/L. Therefore, if these wood items or the associated surface coating paint are to be disposed of they would be considered a lead-containing waste shown to be a “leachable toxic waste” and are to be characterized and disposed of as a regulated hazardous waste.

**APPENDIX**

**III**

**CHAIN OF CUSTODIES  
AND LABORATORY  
RESULTS**

## Chain of Custody

–Bulk Asbestos –

| <b>Contact Information</b>                                   |   |
|--|---|
| <b>Client Company:</b> <u>WSP Canada Inc.</u>                | <b>Project Number:</b> <u>P18-11001-63</u>        |
| <b>Office Address:</b> <u>760 Enterprise Crescent</u>        | <b>Project Name:</b> <u>HMS PBS Tech Serv Bld</u> |
| <b>City, State, Zip:</b> <u>Victoria, BC, Canada V8Z 6R4</u> | <b>Primary Contact:</b> <u>Gordon Philippe</u>    |
| <b>Fax Number:</b> <u>250-475-2211</u>                       | <b>Office Phone:</b> <u>250-360-3570 direct</u>   |
| <b>Email Address:</b> <u>Gordon.Philippe@WSP.com</u>         | <b>Cell Phone:</b> <u>250-360-6537 mobile*</u>    |

| <b>PLM Instructions:</b>  |  |
|---|--|
| <input checked="" type="checkbox"/> PLM: Bulk Asbestos Building Materials EPA 600 R-93/116, 1993                                    |  |
| <input type="checkbox"/> PLM: Bulk Asbestos Building Materials EPA 600 M-4/82-020, 1982   |  |
| <input type="checkbox"/> PLM: Bulk Asbestos Building Materials NIOSH 9002, 1985   |  |
| <input type="checkbox"/> PLM: Bulk Asbestos Building Materials NYSDOH-ELAP 198.1, 2002  |  |
| <input type="checkbox"/> PLM: Bulk Asbestos Building Materials NYSDOH-ELAP 198.6, 2010  |  |
| <input type="checkbox"/> TEM: Bulk Asbestos Building Materials NYSDOH-ELAP 198.4, 2009  |  |
| <input type="checkbox"/> PLM: Point Counting  | <input type="checkbox"/> PLM: Analyze Until Positive (Positive Stop)       |
| <input type="checkbox"/> PC: via ELAP 198.1   | <input type="checkbox"/> AUP: by Homogenous Area as Noted                  |
| <input type="checkbox"/> PC: 400 Points   | <input type="checkbox"/> AUP: by Material Type as Noted                    |
| <input type="checkbox"/> PC: 800 Points *   | <input type="checkbox"/> PLM: NOB via 198.6                                |
| <input type="checkbox"/> PC: 1600 Points *  | <input type="checkbox"/> PLM: Friable via EPA 600 2.3                      |
| <input checked="" type="checkbox"/> PLM: Instructions for Multi-Layered Samples   | <input type="checkbox"/> If <1% by PLM, to TEM via 198.4 *                 |
| <input checked="" type="checkbox"/> Analyze and Report All Separable Layers per EPA 600   | <input type="checkbox"/> If <1% by PLM, Hold for Instructions              |
| <input type="checkbox"/> Report Composite for Drywall Systems per NESHAP  | <input type="checkbox"/> PLM: Non-Building Material *** (Dust, Wipe, Tape) |
| <input type="checkbox"/> Report All Layers and Composite Where Applicable   | <input type="checkbox"/> Soil or Vermiculite Analysis *                    |
| <input type="checkbox"/> Only Analyze and Report Specifically Noted Layer   | <input type="checkbox"/> CARB 435  |
| <b>Special Instructions:</b> _____  |  |
| * Additional charge and turnaround may be required    ** Alternative Method (ex: EPA 600/R-04/004) may be recommended by Laboratory |  |

| <b>Turnaround Time</b>   |  |
|--|--|
| Preliminary Results Requested Date: _____  | <input type="checkbox"/> Verbal <input checked="" type="checkbox"/> Email <input type="checkbox"/> Fax |
| <div style="text-align: center; font-size: small;">Specific date / time</div> <input type="checkbox"/> 10 Day <input type="checkbox"/> 5 Day <input checked="" type="checkbox"/> 3 Day <input type="checkbox"/> 2 Day <input type="checkbox"/> 1 Day* <input type="checkbox"/> 12 Hour** <input type="checkbox"/> 6 Hour** <input type="checkbox"/> RUSH** |  |
| * End of next business day unless otherwise specified. ** Matrix Dependent. ***Please notify the lab before shipping***  |  |

| <b>Chain of Custody</b>                             |                           |                    |   |
|---|---------------------------|--------------------|---|
| Relinquished (Name/Organization): <u>Gordon/WSP</u> | Date: <u>20 Jan 2018</u>  | Time: <u>15:30</u> | <div style="border: 1px solid black; padding: 5px; display: inline-block;"> <b>RECEIVED</b><br/> </div> |
| Received (Name / iATL): _____                       | Date: _____               | Time: _____        |   |
| Sample Login (Name / iATL): _____                   | Date: _____               | Time: _____        |   |
| Analysis(Name(s) / iATL): <u>WSP</u>                | Date: <u>1-26-18</u>      | Time: _____        |   |
| QA/QC Review (Name / iATL): <u>dlb</u>              | Date: <u>1-29-18</u>      | Time: _____        | <div style="border: 1px solid black; padding: 5px; display: inline-block;"> <b>JAN 24 2018</b> </div>   |
| Archived / Released: _____                          | QA/QC InterLAB Use: _____ | Date: _____        | Time: _____   |



## Chain of Custody

-Bulk Asbestos -

**Contact Information**

|  |   |
|--|---|
| <b>Client Company:</b> <u>WSP Canada Inc.</u>                | <b>Project Number:</b> <u>P18-11001-63</u>        |
| <b>Office Address:</b> <u>760 Enterprise Crescent</u>        | <b>Project Name:</b> <u>HMS PBS Tech Serv Bld</u> |
| <b>City, State, Zip:</b> <u>Victoria, BC, Canada V8Z 6R4</u> | <b>Primary Contact:</b> <u>Gordon Philippe</u>    |
| <b>Fax Number:</b> <u>250-475-2211</u>                       | <b>Office Phone:</b> <u>250-360-3570 direct</u>   |
| <b>Email Address:</b> <u>Gordon.Philippe@WSP.com</u>         | <b>Cell Phone:</b> <u>250-360-6537 mobile*</u>    |

**PLM Instructions:**

- PLM: Bulk Asbestos Building Materials EPA 600 R-93/116, 1993
- PLM: Bulk Asbestos Building Materials EPA 600 M-4/82-020, 1982
- PLM: Bulk Asbestos Building Materials NIOSH 9002, 1985
- PLM: Bulk Asbestos Building Materials NYSDOH-ELAP 198.1, 2002
- PLM: Bulk Asbestos Building Materials NYSDOH-ELAP 198.6, 2010
- TEM: Bulk Asbestos Building Materials NYSDOH-ELAP 198.4, 2009
  
- PLM: Point Counting
  - PC: via ELAP 198.1
  - PC: 400 Points
  - PC: 800 Points \*
  - PC: 1600 Points \*
- PLM: Instructions for Multi-Layered Samples
  - Analyze and Report All Separable Layers per EPA 600
  - Report Composite for Drywall Systems per NESHAP
  - Report All Layers and Composite Where Applicable
  - Only Analyze and Report Specifically Noted Layer
- PLM: Analyze Until Positive (Positive Stop)
  - AUP: by Homogenous Area as Noted
  - AUP: by Material Type as Noted
- PLM: NOB via 198.6
  - PLM: Friable via EPA 600 2.3
  - If <1% by PLM, to TEM via 198.4 \*
  - If <1% by PLM, Hold for Instructions
- PLM: Non-Building Material \*\*\* (Dust, Wipe, Tape)
  - Soil or Vermiculite Analysis
  - CARB 435

**Special Instructions:** \_\_\_\_\_

\* Additional charge and turnaround may be required    \*\* Alternative Method (ex: EPA 600/R-04/004) may be recommended by Laboratory

**Turnaround Time**

Preliminary Results Requested Date: \_\_\_\_\_  Verbal  Email  Fax

Specific date / time

10 Day  5 Day  3 Day  2 Day  1 Day\*  12 Hour\*\*  6 Hour\*\*  RUSH\*\*

\* End of next business day unless otherwise specified. \*\* Matrix Dependent. \*\*\*Please notify the lab before shipping\*\*\*

**Chain of Custody**

|   |                           |                          |
|---|---------------------------|--------------------------|
| Relinquished (Name/Organization): <u>Gordon/WSP</u> | Date: <u>20 Jan 2018</u>  | Time: <u>15:30</u>       |
| Received (Name / iATL): _____                       | Date: _____               | Time: _____              |
| Sample Login (Name / iATL): _____                   | Date: _____               | Time: _____              |
| Analysis(Name(s) / iATL): <u>WSP</u>                | Date: <u>1-26-18</u>      | Time: _____              |
| QA/QC Review (Name / iATL): <u>llb</u>              | Date: <u>1-29-18</u>      | Time: <u>JAN 24 2018</u> |
| Archived / Released: _____                          | QA/QC InterLAB Use: _____ | Date: _____              |

RECEIVED

JAN 24 2018

A: [Signature] 1/26/18

## Sample Log

– Bulk Asbestos –

Client: WSP Canada Inc.

Project: P18-11001-63/HMS PBS Tech Serv Bld

Sampling Date/Time: 17 & 18 Jan 2018

| Bulk Asbestos Sample Log |         |  |       |
|--------------------------|---------|--|-------|
| Client Sample #          | iATL #  | Location/Description   | Notes |
| 17A-TSB-00               | 6430694 | Carpenter Shop Floor/Concrete  |       |
| 17A-TSB-01               | 6430695 | Carpenter Shop Floor/Cork Like Filler                                    |       |
| 17A-TSB-02               | 6430696 | Carpenter Shop Floor Block Perimeter/Grey Level Compound                 |       |
| 17A-TSB-03               | 6430697 | Carpenter Shop Floor under Wood Blocking/Black Mastic                    |       |
| 17A-TSB-04               | 6430698 | Carpenter Shop/TPI Straight Run Canvas on Fiberglass                     |       |
| 17A-TSB-05               | 6430699 | Carpenter Shop/TPI T-Junction Hard Mud under Canvas                      |       |
| 17A-TSB-06               | 6430700 | Carpenter Shop/TPI Residual Hard Mud From Pipe Threads                   |       |
| 17A-TSB-07               | 6430701 | Paint Storage /TPI Straight Run Large Dia Canvas (on Fiberglass)         |       |
| 17A-TSB-08               | 6430702 | Paint Storage /TPI Straight Run Small Dia Canvas on Fiberglass           |       |
| 17A-TSB-09               | 6430703 | Paint Storage/Transite Panel Int Sliding Door Frame                      |       |
| 17A-TSB-10               | 6430704 | Paint Storage/Transite Panel Ext Sliding Door Frame                      |       |
| 17A-TSB-11               | 6430705 | Machine Shop/Transite Panel Int Rolling Door Frame                       |       |
| 17A-TSB-12               | 6430706 | Machine Shop/TPI Residual Hard Mud From Pipe Threads                     |       |
| 17A-TSB-13               | 6430707 | Office Common/TPI Lower East Large Dia Hard Mud Elbow Layers             |       |
| 17A-TSB-14               | 6430708 | Office Common/TPI Lower West Large Dia Hard Mud Elbow Layers             |       |
| 17A-TSB-15               | 6430709 | Office Common/TPI Lower East Straight Run Large Dia Canvas on Fiberglass |       |

# Sample Log

## –Bulk Asbestos –

Client: WSP Canada Inc. Project: P18-11001-63/HMS PBS Tech Serv Bld

Sampling Date/Time: 17 & 18 Jan 2018

| Bulk Asbestos Sample Log |         |   |       |
|--------------------------|---------|---|-------|
| Client Sample #          | iATL #  | Location/Description  | Notes |
| 17A-TSB-16               | 6430710 | Office Common/TPI Lower West Straight Run Large Dia Canvas on Fiberglass              |       |
| 17A-TSB-17               | 6430711 | Office #1 Wall @ Door Frame / DWJC  |       |
| 17A-TSB-18               | 6430712 | Office #2 Wall @ Door Frame / DWJC  |       |
| 17A-TSB-19               | 6430713 | Office #3 Wall @ Door Frame / DWJC  |       |
| 17A-TSB-20               | 6430714 | Office #4 Wall @ Door Frame / DWJC  |       |
| 17A-TSB-21               | 6430715 | Office # 4/Suspended Ceiling Tile   |       |
| 17A-TSB-22               | 6430716 | Main Roof NE/Roofing Layers   |       |
| 17A-TSB-23               | 6430717 | Main Roof SW/Roofing Layers   |       |
| 17A-TSB-24               | 6430718 | South Stairs Roof/Roofing Layers  |       |
| 17A-TSB-25               | 6430719 | NE Shed/Roofing Layers  |       |
| 17A-TSB-26               | 6430720 | Carpenter Shop Ext Foundation/Transite Panel  |       |
| 17A-TSB-27               | 6430721 | Carpenter Shop Ext Foundation/Fiberglass Insulation with Backing Paper & Black Mastic |       |
|                          |         |   |       |
|                          |         |   |       |
|                          |         |   |       |
|                          |         |   |       |

CERTIFICATE OF ANALYSIS

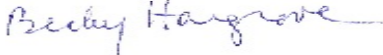
Client: WSP Canada Inc  
760 Enterprise Crescent  
Victoria BC V8Z 6R4  
  
Client: WSP786

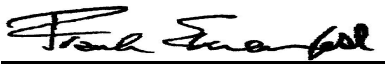
Report Date: 1/26/2018  
Report No.: 556014 - PLM  
Project: HMS PBS Tech Serv Bld  
Project No.: P18-11001-63

PLM BULK SAMPLE ANALYSIS SUMMARY

|  |  |  |
|--|--|--|
| <b>Lab No.:</b> 6430694<br><b>Client No.:</b> 17A-TSB-00     | <b>Analyst Observation:</b> Clear Cementitious<br><b>Client Description:</b> Concrete                          | <b>Location:</b> Carpenter Shop Floor<br><b>Facility:</b>                        |
| <u>Percent Asbestos:</u><br><i>None Detected</i>             | <u>Percent Non-Asbestos Fibrous Material:</u><br>None Detected   | <u>Percent Non-Fibrous Material:</u><br>100                                      |
| <b>Lab No.:</b> 6430695<br><b>Client No.:</b> 17A-TSB-01     | <b>Analyst Observation:</b> Dk Brown Cork<br><b>Client Description:</b> Cork Like Filler                       | <b>Location:</b> Carpenter Shop Floor<br><b>Facility:</b>                        |
| <u>Percent Asbestos:</u><br><i>None Detected</i>             | <u>Percent Non-Asbestos Fibrous Material:</u><br>None Detected   | <u>Percent Non-Fibrous Material:</u><br>100                                      |
| <b>Lab No.:</b> 6430696<br><b>Client No.:</b> 17A-TSB-02     | <b>Analyst Observation:</b> Black Tar<br><b>Client Description:</b> Grey Level Compound                        | <b>Location:</b> Carpenter Shop Floor Block<br>Perimeter<br><b>Facility:</b>     |
| <u>Percent Asbestos:</u><br><i>None Detected</i>             | <u>Percent Non-Asbestos Fibrous Material:</u><br>None Detected   | <u>Percent Non-Fibrous Material:</u><br>100                                      |
| <b>Lab No.:</b> 6430697<br><b>Client No.:</b> 17A-TSB-03     | <b>Analyst Observation:</b> Black Mastic<br><b>Client Description:</b> Black Mastic                            | <b>Location:</b> Carpenter Shop Floor Under<br>Wood Blocking<br><b>Facility:</b> |
| <u>Percent Asbestos:</u><br><i>None Detected</i>             | <u>Percent Non-Asbestos Fibrous Material:</u><br>None Detected   | <u>Percent Non-Fibrous Material:</u><br>100                                      |
| <b>Lab No.:</b> 6430698<br><b>Client No.:</b> 17A-TSB-04     | <b>Analyst Observation:</b> Tan Insulation<br><b>Client Description:</b> TPI Straight Run Canvas On Fiberglass | <b>Location:</b> Carpenter Shop<br><b>Facility:</b>                              |
| <u>Percent Asbestos:</u><br><i>None Detected</i>             | <u>Percent Non-Asbestos Fibrous Material:</u><br>98 Fibrous Glass  | <u>Percent Non-Fibrous Material:</u><br>2  |
| <b>Lab No.:</b> 6430698(L2)<br><b>Client No.:</b> 17A-TSB-04 | <b>Analyst Observation:</b> Off-White Wrap<br><b>Client Description:</b> TPI Straight Run Canvas On Fiberglass | <b>Location:</b> Carpenter Shop<br><b>Facility:</b>                              |
| <u>Percent Asbestos:</u><br><i>None Detected</i>             | <u>Percent Non-Asbestos Fibrous Material:</u><br>90 Cellulose  | <u>Percent Non-Fibrous Material:</u><br>10                                       |

Analytical Method -US EPA 600, R93-116. Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 1/24/2018  
Date Analyzed: 01/26/2018  
Signature:   
Analyst: Rebecca Hargrove

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: WSP Canada Inc  
760 Enterprise Crescent  
Victoria BC V8Z 6R4  
  
Client: WSP786

Report Date: 1/26/2018  
Report No.: 556014 - PLM  
Project: HMS PBS Tech Serv Bld  
Project No.: P18-11001-63

PLM BULK SAMPLE ANALYSIS SUMMARY

**Lab No.:** 6430699      **Analyst Observation:** Grey Insulation      **Location:** Carpenter Shop  
**Client No.:** 17A-TSB-05      **Client Description:** TPI-T-Junction Hard Mud Under Canvas      **Facility:**  
Percent Asbestos:      Percent Non-Asbestos Fibrous Material:      Percent Non-Fibrous Material:  
**65 Chrysotile**      5 Fibrous Glass      30

**Lab No.:** 6430699(L2)      **Analyst Observation:** Off-White Wrap      **Location:** Carpenter Shop  
**Client No.:** 17A-TSB-05      **Client Description:** TPI-T-Junction Hard Mud Under Canvas      **Facility:**  
Percent Asbestos:      Percent Non-Asbestos Fibrous Material:      Percent Non-Fibrous Material:  
**None Detected**      90 Cellulose      10

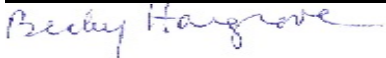
**Lab No.:** 6430700      **Analyst Observation:** White Insulation      **Location:** Carpenter Shop  
**Client No.:** 17A-TSB-06      **Client Description:** TPI Residual Hard Mud From Pipe      **Facility:**  
Threads      Percent Non-Asbestos Fibrous Material:      Percent Non-Fibrous Material:  
Percent Asbestos:      10 Fibrous Glass      90  
**None Detected**

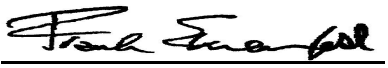
**Lab No.:** 6430700(L2)      **Analyst Observation:** Brown Insulation      **Location:** Carpenter Shop  
**Client No.:** 17A-TSB-06      **Client Description:** TPI Residual Hard Mud From Pipe      **Facility:**  
Threads      Percent Non-Asbestos Fibrous Material:      Percent Non-Fibrous Material:  
Percent Asbestos:      None Detected      99.5  
**PC 0.5 Chrysotile**

**Lab No.:** 6430701      **Analyst Observation:** Off-White Wrap      **Location:** Paint Storage  
**Client No.:** 17A-TSB-07      **Client Description:** TPI Straight Run Large Dia Canvas (On      **Facility:**  
Fiberglass)      Percent Non-Asbestos Fibrous Material:      Percent Non-Fibrous Material:  
Percent Asbestos:      95 Cellulose      5  
**None Detected**

**Lab No.:** 6430702      **Analyst Observation:** Tan Insulation      **Location:** Paint Storage  
**Client No.:** 17A-TSB-08      **Client Description:** TPI Straight Run Small Dia Canvas (On      **Facility:**  
Fiberglass)      Percent Non-Asbestos Fibrous Material:      Percent Non-Fibrous Material:  
Percent Asbestos:      98 Fibrous Glass      2  
**None Detected**

Analytical Method -US EPA 600, R93-116. Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 1/24/2018  
Date Analyzed: 01/26/2018  
Signature:   
Analyst: Rebecca Hargrove

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director

CERTIFICATE OF ANALYSIS


Client: WSP Canada Inc  
760 Enterprise Crescent  
Victoria BC V8Z 6R4  
  
Client: WSP786


Report Date: 1/26/2018  
Report No.: 556014 - PLM  
Project: HMS PBS Tech Serv Bld  
Project No.: P18-11001-63

PLM BULK SAMPLE ANALYSIS SUMMARY

|  |   |  |
|--|---|--|
| <b>Lab No.:</b> 6430702(L2)<br><b>Client No.:</b> 17A-TSB-08 | <b>Analyst Observation:</b> Off-White/Silver Wrap<br><b>Client Description:</b> TPI Straight Run Small Dia Canvas (On Fiberglass) | <b>Location:</b> Paint Storage<br><b>Facility:</b>                             |
| <u>Percent Asbestos:</u><br><i>None Detected</i>             | <u>Percent Non-Asbestos Fibrous Material:</u><br>75 Cellulose   | <u>Percent Non-Fibrous Material:</u><br>25                                     |
| <b>Lab No.:</b> 6430703<br><b>Client No.:</b> 17A-TSB-09     | <b>Analyst Observation:</b> Grey Cement Product<br><b>Client Description:</b> Transite Panel                                      | <b>Location:</b> Paint Storage/Interior Sliding Door Frame<br><b>Facility:</b> |
| <u>Percent Asbestos:</u><br><i>25 Chrysotile</i>             | <u>Percent Non-Asbestos Fibrous Material:</u><br>None Detected  | <u>Percent Non-Fibrous Material:</u><br>75                                     |
| <b>Lab No.:</b> 6430704<br><b>Client No.:</b> 17A-TSB-10     | <b>Analyst Observation:</b> Grey Cement Product<br><b>Client Description:</b> Transite Panel                                      | <b>Location:</b> Paint Storage/Exterior Sliding Door Frame<br><b>Facility:</b> |
| <u>Percent Asbestos:</u><br><i>25 Chrysotile</i>             | <u>Percent Non-Asbestos Fibrous Material:</u><br>None Detected  | <u>Percent Non-Fibrous Material:</u><br>75                                     |
| <b>Lab No.:</b> 6430705<br><b>Client No.:</b> 17A-TSB-11     | <b>Analyst Observation:</b> Grey Cement Product<br><b>Client Description:</b> Transite Panel                                      | <b>Location:</b> Machine Shop/Interior Rolling Door Frame<br><b>Facility:</b>  |
| <u>Percent Asbestos:</u><br><i>25 Chrysotile</i>             | <u>Percent Non-Asbestos Fibrous Material:</u><br>None Detected  | <u>Percent Non-Fibrous Material:</u><br>75                                     |
| <b>Lab No.:</b> 6430706<br><b>Client No.:</b> 17A-TSB-12     | <b>Analyst Observation:</b> Grey Insulation<br><b>Client Description:</b> TPI Residual Hard Mud From Pipe Threads                 | <b>Location:</b> Machine Shop<br><b>Facility:</b>                              |
| <u>Percent Asbestos:</u><br><i>None Detected</i>             | <u>Percent Non-Asbestos Fibrous Material:</u><br>None Detected  | <u>Percent Non-Fibrous Material:</u><br>100                                    |
| <b>Lab No.:</b> 6430707<br><b>Client No.:</b> 17A-TSB-13     | <b>Analyst Observation:</b> Grey Insulation<br><b>Client Description:</b> TPI-Large Dia Hard Mud Elbow Layers                     | <b>Location:</b> Office Common Lower East<br><b>Facility:</b>                  |
| <u>Percent Asbestos:</u><br><i>65 Chrysotile</i>             | <u>Percent Non-Asbestos Fibrous Material:</u><br>None Detected  | <u>Percent Non-Fibrous Material:</u><br>35                                     |

Analytical Method -US EPA 600, R93-116. Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 1/24/2018  
Date Analyzed: 01/26/2018  
Signature:   
Analyst: Rebecca Hargrove

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: WSP Canada Inc  
760 Enterprise Crescent  
Victoria BC V8Z 6R4

Report Date: 1/26/2018  
Report No.: 556014 - PLM  
Project: HMS PBS Tech Serv Bld  
Project No.: P18-11001-63

Client: WSP786

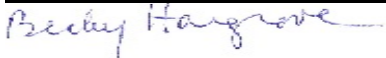
PLM BULK SAMPLE ANALYSIS SUMMARY

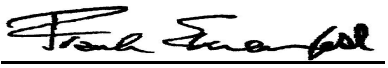
**Lab No.:** 6430708      **Analyst Observation:** Grey/Tan Insulation      **Location:** Office Common Lower West  
**Client No.:** 17A-TSB-14      **Client Description:** TPI-Large Dia Hard Mud Elbow Layers      **Facility:**  
Percent Asbestos:      Percent Non-Asbestos Fibrous Material:      Percent Non-Fibrous Material:  
*25 Chrysotile*      65 Fibrous Glass      10

**Lab No.:** 6430709      **Analyst Observation:** Tan Insulation      **Location:** Office Common Lower East  
**Client No.:** 17A-TSB-15      **Client Description:** TPI-Straight Run Large Dia Canvas On      **Facility:**  
Fiberglass      Percent Non-Asbestos Fibrous Material:      Percent Non-Fibrous Material:  
Percent Asbestos:      98 Fibrous Glass      2  
*None Detected*

**Lab No.:** 6430709(L2)      **Analyst Observation:** Off-White Wrap      **Location:** Office Common Lower East  
**Client No.:** 17A-TSB-15      **Client Description:** TPI-Straight Run Large Dia Canvas On      **Facility:**  
Fiberglass      Percent Non-Asbestos Fibrous Material:      Percent Non-Fibrous Material:  
Percent Asbestos:      90 Cellulose      10  
*None Detected*

Analytical Method -US EPA 600, R93-116. Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 1/24/2018  
Date Analyzed: 01/26/2018  
Signature:   
Analyst: Rebecca Hargrove

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director

CERTIFICATE OF ANALYSIS


Client: WSP Canada Inc  
760 Enterprise Crescent  
Victoria BC V8Z 6R4  
  
Client: WSP786

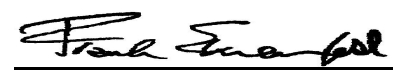
Report Date: 1/26/2018  
Report No.: 556014 - PLM  
Project: HMS PBS Tech Serv Bld  
Project No.: P18-11001-63

PLM BULK SAMPLE ANALYSIS SUMMARY

|  |   |   |
|--|---|---|
| <b>Lab No.:</b> 6430710<br><b>Client No.:</b> 17A-TSB-16 | <b>Analyst Observation:</b> Lt Green/Tan Insulation<br><b>Client Description:</b> TPI-Straight Run Large Dia Canvas On Fiberglass | <b>Location:</b> Office Common Lower West<br><b>Facility:</b>     |
| <u>Percent Asbestos:</u><br><i>None Detected</i>         | <u>Percent Non-Asbestos Fibrous Material:</u><br>50 Fibrous Glass<br>25 Cellulose   | <u>Percent Non-Fibrous Material:</u><br>25                        |
| <b>Lab No.:</b> 6430711<br><b>Client No.:</b> 17A-TSB-17 | <b>Analyst Observation:</b> White Joint Compound<br><b>Client Description:</b> DWJC   | <b>Location:</b> Office #1 Wall At Door Frame<br><b>Facility:</b> |
| <u>Percent Asbestos:</u><br><i>None Detected</i>         | <u>Percent Non-Asbestos Fibrous Material:</u><br>None Detected  | <u>Percent Non-Fibrous Material:</u><br>100                       |
| <b>Lab No.:</b> 6430712<br><b>Client No.:</b> 17A-TSB-18 | <b>Analyst Observation:</b> White Joint Compound<br><b>Client Description:</b> DWJC   | <b>Location:</b> Office #2 Wall At Door Frame<br><b>Facility:</b> |
| <u>Percent Asbestos:</u><br><i>None Detected</i>         | <u>Percent Non-Asbestos Fibrous Material:</u><br>None Detected  | <u>Percent Non-Fibrous Material:</u><br>100                       |
| <b>Lab No.:</b> 6430713<br><b>Client No.:</b> 17A-TSB-19 | <b>Analyst Observation:</b> White Joint Compound<br><b>Client Description:</b> DWJC   | <b>Location:</b> Office #3 Wall At Door Frame<br><b>Facility:</b> |
| <u>Percent Asbestos:</u><br><i>None Detected</i>         | <u>Percent Non-Asbestos Fibrous Material:</u><br>None Detected  | <u>Percent Non-Fibrous Material:</u><br>100                       |
| <b>Lab No.:</b> 6430714<br><b>Client No.:</b> 17A-TSB-20 | <b>Analyst Observation:</b> White Joint Compound<br><b>Client Description:</b> DWJC   | <b>Location:</b> Office #4 Wall At Door Frame<br><b>Facility:</b> |
| <u>Percent Asbestos:</u><br><i>None Detected</i>         | <u>Percent Non-Asbestos Fibrous Material:</u><br>None Detected  | <u>Percent Non-Fibrous Material:</u><br>100                       |
| <b>Lab No.:</b> 6430715<br><b>Client No.:</b> 17A-TSB-21 | <b>Analyst Observation:</b> Tan Ceiling Tile<br><b>Client Description:</b> Suspended Ceiling Tile                                 | <b>Location:</b> Office #4<br><b>Facility:</b>                    |
| <u>Percent Asbestos:</u><br><i>None Detected</i>         | <u>Percent Non-Asbestos Fibrous Material:</u><br>70 Cellulose<br>15 Fibrous Glass   | <u>Percent Non-Fibrous Material:</u><br>15                        |

Analytical Method -US EPA 600, R93-116. Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 1/24/2018  
Date Analyzed: 01/26/2018  
Signature:   
Analyst: Erik Swanson

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director



CERTIFICATE OF ANALYSIS


Client: WSP Canada Inc  
760 Enterprise Crescent  
Victoria BC V8Z 6R4  
  
Client: WSP786

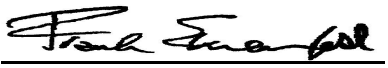
Report Date: 1/26/2018  
Report No.: 556014 - PLM  
Project: HMS PBS Tech Serv Bld  
Project No.: P18-11001-63

PLM BULK SAMPLE ANALYSIS SUMMARY

|  |  |  |
|--|--|--|
| <b>Lab No.:</b> 6430716<br><b>Client No.:</b> 17A-TSB-22     | <b>Analyst Observation:</b> Black Roof Material<br><b>Client Description:</b> Roofing Layers | <b>Location:</b> Main Roof NE<br><b>Facility:</b>      |
| <u>Percent Asbestos:</u><br><i>None Detected</i>             | <u>Percent Non-Asbestos Fibrous Material:</u><br>10 Fibrous Glass                            | <u>Percent Non-Fibrous Material:</u><br>90             |
| <b>Lab No.:</b> 6430716(L2)<br><b>Client No.:</b> 17A-TSB-22 | <b>Analyst Observation:</b> Beige Insulation<br><b>Client Description:</b> Roofing Layers    | <b>Location:</b> Main Roof NE<br><b>Facility:</b>      |
| <u>Percent Asbestos:</u><br><i>None Detected</i>             | <u>Percent Non-Asbestos Fibrous Material:</u><br>20 Cellulose                                | <u>Percent Non-Fibrous Material:</u><br>80             |
| <b>Lab No.:</b> 6430717<br><b>Client No.:</b> 17A-TSB-23     | <b>Analyst Observation:</b> Black Roof Material<br><b>Client Description:</b> Roofing Layers | <b>Location:</b> Main Roof SW<br><b>Facility:</b>      |
| <u>Percent Asbestos:</u><br><i>None Detected</i>             | <u>Percent Non-Asbestos Fibrous Material:</u><br>10 Fibrous Glass                            | <u>Percent Non-Fibrous Material:</u><br>90             |
| <b>Lab No.:</b> 6430717(L2)<br><b>Client No.:</b> 17A-TSB-23 | <b>Analyst Observation:</b> Beige Insulation<br><b>Client Description:</b> Roofing Layers    | <b>Location:</b> Main Roof SW<br><b>Facility:</b>      |
| <u>Percent Asbestos:</u><br><i>None Detected</i>             | <u>Percent Non-Asbestos Fibrous Material:</u><br>20 Cellulose                                | <u>Percent Non-Fibrous Material:</u><br>80             |
| <b>Lab No.:</b> 6430718<br><b>Client No.:</b> 17A-TSB-24     | <b>Analyst Observation:</b> Black Roof Material<br><b>Client Description:</b> Roofing Layers | <b>Location:</b> South Stairs Roof<br><b>Facility:</b> |
| <u>Percent Asbestos:</u><br><i>None Detected</i>             | <u>Percent Non-Asbestos Fibrous Material:</u><br>90 Cellulose                                | <u>Percent Non-Fibrous Material:</u><br>10             |
| <b>Lab No.:</b> 6430719<br><b>Client No.:</b> 17A-TSB-25     | <b>Analyst Observation:</b> Black Roof Material<br><b>Client Description:</b> Roofing Layers | <b>Location:</b> NE Shed<br><b>Facility:</b>           |
| <u>Percent Asbestos:</u><br><i>None Detected</i>             | <u>Percent Non-Asbestos Fibrous Material:</u><br>90 Cellulose                                | <u>Percent Non-Fibrous Material:</u><br>10             |

Analytical Method -US EPA 600, R93-116. Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 1/24/2018  
Date Analyzed: 01/26/2018  
Signature:   
Analyst: Erik Swanson

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director

CERTIFICATE OF ANALYSIS


|  |   |
|--|---|
| Client: WSP Canada Inc<br>760 Enterprise Crescent<br>Victoria BC V8Z 6R4 | Report Date: 1/26/2018<br>Report No.: 556014 - PLM<br>Project: HMS PBS Tech Serv Bld<br>Project No.: P18-11001-63 |
| Client: WSP786   |   |

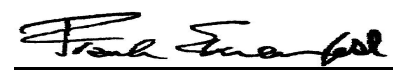
PLM BULK SAMPLE ANALYSIS SUMMARY

|  |  |   |
|--|--|---|
| <b>Lab No.:</b> 6430720<br><b>Client No.:</b> 17A-TSB-26 | <b>Analyst Observation:</b> Grey Cement Product<br><b>Client Description:</b> Transite Panel | <b>Location:</b> Carpenter Shop Ext. Foundation<br><b>Facility:</b> |
| <u>Percent Asbestos:</u><br><i>10 Chrysotile</i>         | <u>Percent Non-Asbestos Fibrous Material:</u><br>None Detected                               | <u>Percent Non-Fibrous Material:</u><br>90                          |

|  |   |   |
|--|---|---|
| <b>Lab No.:</b> 6430721<br><b>Client No.:</b> 17A-TSB-27 | <b>Analyst Observation:</b> Tan Insulation<br><b>Client Description:</b> Fiberglass Insulation With Backing Paper<br>And Black Mastic | <b>Location:</b> Carpenter Shop Ext. Foundation<br><b>Facility:</b> |
| <u>Percent Asbestos:</u><br><i>None Detected</i>         | <u>Percent Non-Asbestos Fibrous Material:</u><br>80 Fibrous Glass   | <u>Percent Non-Fibrous Material:</u><br>20                          |

Analytical Method -US EPA 600, R93-116. Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 1/24/2018  
Date Analyzed: 01/26/2018  
Signature:   
Analyst: Erik Swanson

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director

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CERTIFICATE OF ANALYSIS

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Client: WSP Canada Inc  
760 Enterprise Crescent  
Victoria BC V8Z 6R4

Report Date: 1/26/2018  
Report No.: 556014 - PLM  
Project: HMS PBS Tech Serv Bld  
Project No.: P18-11001-63

Client: WSP786

## Appendix to Analytical Report

**Customer Contact:**

**Analysis:** US EPA 600, R93-116

This appendix seeks to promote greater understanding of any observations, exceptions, special instructions, or circumstances that the laboratory needs to communicate to the client concerning the above samples. The information below is used to help promote your ability to make the most informed decisions for you and your customers. Please note the following points of contact for any questions you may have.

**iATL Customer Service:** customerservice@iatl.com

**iATL Office Manager:** cdavis@iatl.com

**iATL Account Representative:** Shirley Clark

**Sample Login Notes:** See Batch Sheet Attached

**Sample Matrix:** Bulk Building Materials

**Exceptions Noted:** See Following Pages

### General Terms, Warrants, Limits, Qualifiers:

General information about iATL capabilities and client/laboratory relationships and responsibilities are spelled out in iATL policies that are listed at [www.iATL.com](http://www.iATL.com) and in our Quality Assurance Manual per ISO 17025 standard requirements. The information therein is a representation of iATL definitions and policies for turnaround times, sample submittal, collection media, blank definitions, quantification issues and limit of detection, analytical methods and procedures, sub-contracting policies, results reporting options, fees, terms, and discounts, confidentiality, sample archival and disposal, and data interpretation.

iATL warrants the test results to be of a precision normal for the type and methodology employed for each sample submitted. iATL disclaims any other warrants, expressed or implied, including warranty of fitness for a particular purpose and warranty of merchantability. iATL accepts no legal responsibility for the purpose for which the client uses test results. Any analytical work performed must be governed by our Standard Terms and Conditions. Prices, methods and detection limits may be changed without notification. Please contact your Customer Service Representative for the most current information.

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA LAP LLC, or any agency of local, state or province governments nor of any agency of the U.S. government.

This report shall not be reproduced except in full, without written approval of the laboratory.

### Information Pertinent to this Report:

Analysis by US EPA 600 93-116: Determination of Asbestos in Bulk Building Materials by Polarized Light Microscopy (PLM).

### Certifications:

- NIST-NVLAP No. 101165-0
- NYSDOH-ELAP No. 11021
- AIHA-LAP, LLC No. 100188

Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

Analytical Methodology Alternatives: Your initial request for analysis may not have accounted for recent advances in regulatory requirements or advances in technology that are routinely used in similar situations for other qualified projects. You may have the option to explore additional analysis for further information. Below are a few options, listed as the matrix followed by the appropriate methodology. Also included are links to more information on our website.

Bulk Building Materials that are Non-Friable Organically Bound (NOB) by Gravimetric Reduction techniques employing PLM and TEM: ELAP 198.6 (PLM-NOB), ELAP 198.4 (TEM-NOB)

Loose Fill Vermiculite Insulation, Attic Insulation, Zonolite (copyright), etc.: US EPA 600 R-4/004 (multi-tiered analytical process)  
Sprayed On Insulation/Fireproofing with Vermiculite (SOF-V): ELAP 198.8 (PLM-SOF-V)

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CERTIFICATE OF ANALYSIS

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Client: WSP Canada Inc  
760 Enterprise Crescent  
Victoria BC V8Z 6R4

Report Date: 1/26/2018  
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Project: HMS PBS Tech Serv Bld  
Project No.: P18-11001-63

Client: WSP786

Soil, sludge, sediment, aggregate, and like materials analyzed for asbestos or other elongated mineral particles (ex. erionite, etc.): ASTM D7521, CARB 435, and other options available

Asbestos in Surface Dust according to one of ASTM's Methods (very dependent on sampling collection technique – by TEM): ASTM D 5755, D5756, or D6480

Various other asbestos matrices (air, water, etc.) and analytical methods are available.

### Disclaimers / Qualifiers:

There may be some samples in this project that have a "NOTE:" associated with a sample result. We use added disclaimers or qualifiers to inform the client about something that requires further explanation. Here is a list with highlighted disclaimers that may be pertinent to this project. For a full explanation of these and other disclaimers, please inquire at [customerservice@iatl.com](mailto:customerservice@iatl.com).

- 1) Note: No mastic provided for analysis.
- 2) Note: Insufficient mastic provided for analysis.
- 3) Note: Insufficient material provided for analysis.
- 4) Note: Insufficient sample provided for QC reanalysis.
- 5) Note: Different material than indicated on Sample Log / Description.
- 6) Note: Sample not submitted.
- 7) Note: Attached to asbestos containing material.
- 8) Note: Received wet.
- 9) Note: Possible surface contamination.
- 10) Note: Not building material. 1% threshold may not apply.
- 11) Note: Recommend TEM-NOB analysis as per EPA recommendations.
- 12) Note: Asbestos detected but not quantifiable.
- 13) Note: Multiple identical samples submitted, only one analyzed.
- 14) Note: Analyzed by EPA 600/R-93/116. Point Counting detection limit at 0.080%.
- 15) Note: Analyzed by EPA 600/R-93/116. Point Counting detection limit at 0.125%.

### Recommendations for Vermiculite Analysis:

Several analytical protocols exist for the analysis of asbestos in vermiculite. These analytical approaches vary depending upon the nature of the vermiculite mineral being tested (e.g. un-processed gange, homogeneous exfoliated books of mica, or mixed mineral composites). Please contact your client representative for pricing and turnaround time options available.

iATL recommends initial testing using the EPA 600/R-93/116 method. This method is specifically designed for the analysis of asbestos in bulk building materials. It provides an acceptable starting point for primary screening of vermiculite for possible asbestos.

Results from this testing may be inconclusive. EPA suggests proceeding to a multi-tiered analysis involving wet separation techniques in conjunction with PLM and TEM gravimetric analysis (EPA 600/R-04/004).

Further information on this method and other vermiculite and asbestos issues can be found at the following: Agency for Toxic Substances and Disease Registry (ATSDR) [www.atsdr.cdc.gov](http://www.atsdr.cdc.gov), United States Geological Survey (USGS) [www.minerals.usgs.gov/minerals/](http://www.minerals.usgs.gov/minerals/), US EPA [www.epa.gov/asbestos](http://www.epa.gov/asbestos). The USEPA also has an informative brochure "Current Best Practices for Vermiculite Attic Insulation" EPA 747F03001 May 2003, that may assist the health and remediation professional.

The following is a summary of the analytical process outlines in the EPA 600/R-04/004 Method:

- 1) **Analytical Step/Method:** Initial Screening by PLM, EPA 600R-93/116  
**Requirements/Comments:** Minimum of 0.1 g of sample. ~0.25% LOQ for most samples.
- 2) **Analytical Step/Method:** Wet Separation by PLM Gravimetric Technique, EPA R-04/004  
**Requirements/Comments:** Minimum 50g\*\* of dry sample. Analysis of "Sinks" only.
- 3) **Analytical Step/Method:** Wet Separation by PLM Gravimetric Technique, EPA R-04/004  
**Requirements/Comments:** Minimum 50g\*\* of dry sample. Analysis of "Floats" only.
- 4) **Analytical Step/Method:** Wet Separation by TEM Gravimetric Technique, EPA R-04/004  
**Requirements/Comments:** Minimum 50g\*\* of dry sample. Analysis of "Sinks" only.
- 5) **Analytical Step/Method:** Wet Separation by TEM Gravimetric Technique, EPA R-04/004

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CERTIFICATE OF ANALYSIS

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Client: WSP Canada Inc  
760 Enterprise Crescent  
Victoria BC V8Z 6R4

Report Date: 1/26/2018  
Report No.: 556014 - PLM  
Project: HMS PBS Tech Serv Bld  
Project No.: P18-11001-63

Client: WSP786

**Requirements/Comments:** Minimum 50g\*\* of dry sample. Analysis of "Suspension" only.

LOQ, Limit of Quantitation estimates for mass and volume analyses.

\*With advance notice and confirmation by the laboratory.

\*\*Approximately 1 Liter of sample in double-bagged container (~9x6 inch bag of sample).

## Chain of Custody

– Environmental Lead –

### Contact Information

**Client Company:** WSP Canada Inc.  
**Office Address:** 760 Enterprise Crescent  
**City, State, Zip:** Victoria, BC, Canada V8Z 6R4  
**Fax Number:** 250-475-2211  
**Email Address:** Gordon.Philippe@WSP.com

**Project Number:** P18-11001-63  
**Project Name:** HMS PBS Tech Serv Bld  
**Primary Contact:** Gordon Philippe  
**Office Phone:** 250-475-1000  
**Cell Phone:** 250-360-6537

iATL is accredited by the National Lead Laboratory Accreditation Program (NLLAP) to perform analytical testing of environmental samples for lead (Pb). The accreditation is through AIHA-LAP, LLC and several other nationally recognized state programs.

### Matrix/Method:

- Paint by AAS: ASTM D3335-85a, 2009
- Wipe/Dust by AAS: SW 846: 3050B: 700B, 2010
- Air by AAS: NIOSH 7082, 1994
- Soil by AAS: EPA SW 846 (Soil)
- Water by AAS-GF: ASTM D3559-03D, US EPA 200.9
- Other Metals (Cd, Zn, Cr) by AAS
- Toxicity Characteristic Leaching Procedure (TCLP) by AAS: US EPA 1311
- Other \_\_\_\_\_

### Special Instructions:

\_\_\_\_\_  
 \_\_\_\_\_

### Turnaround Time

Preliminary Results Requested Date: \_\_\_\_\_  Verbal  Email  Fax  
 \_\_\_\_\_ Specific date / time

10 Day  5 Day  3 Day  2 Day  1 Day\*  12 Hour\*\*  6 Hour\*\*  RUSH\*\*

\* End of next business day unless otherwise specified. \*\* Matrix Dependent. \*\*\*Please notify the lab before shipping\*\*\*

### Chain of Custody

|   |                           |                          |
|---|---------------------------|--------------------------|
| Relinquished (Name/Organization): <u>Gordon / WSP</u> | Date: <u>20 Jan 2018</u>  | Time: <u>15:00</u>       |
| Received (Name / iATL): _____                         | Date: _____               | Time: _____              |
| Sample Login (Name / iATL): _____                     | Date: _____               | Time: _____              |
| Analysis(Name(s) / iATL): _____                       | Date: _____               | Time: _____              |
| QA/QC Review (Name / iATL): <u>GP / 20/1/18</u>       | Date: _____               | Time: <u>JAN 24 2018</u> |
| Archived / Released: _____                            | QA/QC InterLAB Use: _____ | Date: _____              |
|   |                           | Time: _____              |

## Sample Log

–Environmental Lead–

Client: WSP Canada Inc.

Project: P18-11001-63/HMS PBS Tech Serv Bld

Sampling Date/Time: 17 & 18 20 Jan 2018

| Client Sample # | iATL #             | Location/<br>Description               | Flow<br>Rate | Start<br>End | Sampling<br>time (min) | Area (ft2)<br>Volume (L) | Results<br>( ) |
|-----------------|--------------------|--|--------------|--------------|------------------------|--------------------------|----------------|
| 18L-TSB-00      | 6429874            | White/Wood Window Frame                |              |              |                        |                          |                |
| 18L-TSB-01      |                    | Grey/Plywood Floor                     |              |              |                        |                          |                |
| 18L-TSB-02      | 6429875<br>6429876 | Green-Grey/Doors                       |              |              |                        |                          |                |
| 18L-TSB-03      | 6429877            | Light Blue/Wood Work Bench             |              |              |                        |                          |                |
| 18L-TSB-04      | 6429878            | Brown-Grey on Orange & White/Ext Doors |              |              |                        |                          |                |
| 18L-TSB-05      | 6429879            | Light Grey-Green/Wood Lockers          |              |              |                        |                          |                |
| 18L-TSB-06      | 6429880            | Tan/Ext Wood Siding                    |              |              |                        |                          |                |
| 18L-TSB-07      | 6429881            | Tan/Ext Metal Siding                   |              |              |                        |                          |                |
| 18L-TSB-08      | 6429882            | Tan/Canopy East Wood Wall              |              |              |                        |                          |                |
| 18L-TSB-11      | 6429883            | White/Ext Wood Shed                    |              |              |                        |                          |                |
| 18L-TSB-12      | 6429884            | Dark Brown/Ext Wood Window Trim        |              |              |                        |                          |                |
| 18L-TSB-13      | 6429885            | Dark Brown/Ext Underside Stairs Canopy |              |              |                        |                          |                |
| 18L-TSB-14      | 6429886            | Medium Green/Benches & Door Int        |              |              |                        |                          |                |
| 18L-TSB-15      | 6429887            | Mint Green/Int Walls                   |              |              |                        |                          |                |
| 18L-TSB-16      | 6429888            | Grey/Plywood Floor                     |              |              |                        |                          |                |

\* = Insufficient Sample Provided to Perform QC Reanalysis (<200mg)

\*\* = Insufficient Sample Provided to Analyze (<50mg) \*\*\* = Matrix / Substrate Interference Possible

FB = Method Requires the submittal of blank(s). ML = Multi Layered Sample. May result in inconsistent results.

These preliminary results are issued by iATL to expedite procedures by clients based upon the above data. iATL assumes that all of the sampling methods and data upon which these results are based, has been accurately supplied by the client. These results may not have been reviewed by the Laboratory Director. Final Certificate of Analysis will follow these preliminary results. The signed COA is to be considered the official results. All EPA, HUD, and NJDEP conditions apply.

CERTIFICATE OF ANALYSIS

Client: WSP Canada Inc  
760 Enterprise Crescent  
Victoria BC V8Z 6R4  
  
Client: WSP786

Report Date: 1/29/2018  
Report No.: 555915 - Lead Paint  
Project: HMS PBS Tech Serv Bld  
Project No.: P18-11001-63

LEAD PAINT SAMPLE ANALYSIS SUMMARY

**Lab No.:** 6429874      **Description:** White Paint      **Result (% by Weight):** 4.3  
**Client No.:** 18L-TSB-00      **Location:** Window Frame, 1/17-1/20/18      **Result (ppm):** 43000  
**Comments:** \*\*\*

**Lab No.:** 6429875      **Description:** Grey Paint      **Result (% by Weight):** 0.19  
**Client No.:** 18L-TSB-01      **Location:** Plywood Floor, 1/17-1/20/18      **Result (ppm):** 1900  
**Comments:**

**Lab No.:** 6429876      **Description:** Green-Grey Paint      **Result (% by Weight):** 6.9  
**Client No.:** 18L-TSB-02      **Location:** Doors, 1/17-1/20/18      **Result (ppm):** 69000  
**Comments:**

**Lab No.:** 6429877      **Description:** Light Blue Paint      **Result (% by Weight):** 0.17  
**Client No.:** 18L-TSB-03      **Location:** Wood Work Bench, 1/17-1/20/18      **Result (ppm):** 1700  
**Comments:**

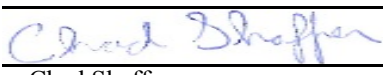
**Lab No.:** 6429878      **Description:** Brown-Grey Paint      **Result (% by Weight):** 2.4  
**Client No.:** 18L-TSB-04      **Location:** Ext. Doors, 1/17-1/20/18      **Result (ppm):** 24000  
**Comments:**


**Lab No.:** 6429879      **Description:** Light Grey-Green Paint      **Result (% by Weight):** 0.16  
**Client No.:** 18L-TSB-05      **Location:** Wood Lockers, 1/17-1/20/18      **Result (ppm):** 1600  
**Comments:**

**Lab No.:** 6429880      **Description:** Tan Paint      **Result (% by Weight):** 0.063  
**Client No.:** 18L-TSB-06      **Location:** Ext. Wood Siding, 1/17-1/20/18      **Result (ppm):** 630  
**Comments:**

**Lab No.:** 6429881      **Description:** Tan Paint      **Result (% by Weight):** 0.012  
**Client No.:** 18L-TSB-07      **Location:** Ext. Metal Siding, 1/17-1/20/18      **Result (ppm):** 120  
**Comments:**

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 1/24/2018  
Date Analyzed: 01/29/2018  
Signature:   
Analyst: Chad Shaffer

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director



CERTIFICATE OF ANALYSIS

Client: WSP Canada Inc  
760 Enterprise Crescent  
Victoria BC V8Z 6R4  
  
Client: WSP786

Report Date: 1/29/2018  
Report No.: 555915 - Lead Paint  
Project: HMS PBS Tech Serv Bld  
Project No.: P18-11001-63

LEAD PAINT SAMPLE ANALYSIS SUMMARY

**Lab No.:** 6429882      **Description:** Tan Paint      **Result (% by Weight):** <0.0064  
**Client No.:** 18L-TSB-08      **Location:** Canopy East Wood Wall, 1/17-1/20/18      **Result (ppm):** <64  
**Comments:**

**Lab No.:** 6429883      **Description:** White Paint      **Result (% by Weight):** 0.14  
**Client No.:** 18L-TSB-11      **Location:** Ext. Wood Shed, 1/17-1/20/18      **Result (ppm):** 1400  
**Comments:**

**Lab No.:** 6429884      **Description:** Dark Brown Paint      **Result (% by Weight):** 1.4  
**Client No.:** 18L-TSB-12      **Location:** Ext. Wood Window Trim, 1/17-1/20/18      **Result (ppm):** 14000  
**Comments:**


**Lab No.:** 6429885      **Description:** Dark Brown Paint      **Result (% by Weight):** 0.95  
**Client No.:** 18L-TSB-13      **Location:** Ext. Underside Stairs Canopy, 1/17-1/20/18      **Result (ppm):** 9500  
**Comments:**

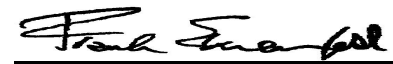
**Lab No.:** 6429886      **Description:** Medium Green Paint      **Result (% by Weight):** 0.21  
**Client No.:** 18L-TSB-14      **Location:** Benches And Door Int., 1/17-1/20/18      **Result (ppm):** 2100  
**Comments:**

**Lab No.:** 6429887      **Description:** Mint Green Paint      **Result (% by Weight):** 0.0096  
**Client No.:** 18L-TSB-15      **Location:** Int. Walls, 1/17-1/20/18      **Result (ppm):** 96  
**Comments:**

**Lab No.:** 6429888      **Description:** Grey Paint      **Result (% by Weight):** 0.0096  
**Client No.:** 18L-TSB-16      **Location:** Plywood Floor, 1/17-1/20/18      **Result (ppm):** 96  
**Comments:**

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 1/24/2018  
Date Analyzed: 01/29/2018  
Signature:   
Analyst: Chad Shaffer

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director

---

CERTIFICATE OF ANALYSIS

---

Client: WSP Canada Inc  
760 Enterprise Crescent  
Victoria BC V8Z 6R4  
  
Client: WSP786

Report Date: 1/29/2018  
Report No.: 555915 - Lead Paint  
Project: HMS PBS Tech Serv Bld  
Project No.: P18-11001-63

## Appendix to Analytical Report:

**Customer Contact:**

**Analysis:** ASTM D3335-85a

This appendix seeks to promote greater understanding of any observations, exceptions, special instructions, or circumstances that the laboratory needs to communicate to the client concerning the above samples. The information below is used to help promote your ability to make the most informed decisions for you and your customers. Please note the following points of contact for any questions you may have.

**iATL Customer Service:** customerservice@iatl.com

**iATL Office Manager:** cdavis@iatl.com

**iATL Account Representative:** Shirley Clark

**Sample Login Notes:** See Batch Sheet Attached

**Sample Matrix:** Paint

**Exceptions Noted:** See Following Pages

### General Terms, Warrants, Limits, Qualifiers:

General information about iATL capabilities and client/laboratory relationships and responsibilities are spelled out in iATL policies that are listed at [www.iATL.com](http://www.iATL.com) and in our Quality Assurance Manual per ISO 17025 standard requirements. The information therein is a representation of iATL definitions and policies for turnaround times, sample submittal, collection media, blank definitions, quantification issues and limit of detection, analytical methods and procedures, sub-contracting policies, results reporting options, fees, terms, and discounts, confidentiality, sample archival and disposal, and data interpretation.

iATL warrants the test results to be of a precision normal for the type and methodology employed for each sample submitted. iATL disclaims any other warrants, expressed or implied, including warranty of fitness for a particular purpose and warranty of merchantability. iATL accepts no legal responsibility for the purpose for which the client uses test results. Any analytical work performed must be governed by our Standard Terms and Conditions. Prices, methods and detection limits may be changed without notification. Please contact your Customer Service Representative for the most current information.

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA LAP LLC, or any agency of local, state or province governments nor of any agency of the U.S. government.

This report shall not be reproduced except in full, without written approval of the laboratory.

### Information Pertinent to this Report:

Analysis by ASTM D3335-85a by AAS

Certification:

- National Lead Laboratory Program (NLLAP): AIHA-LAP, LLC No. 100188

- NYSDOH-ELAP No. 11021

Regulatory limit is 0.5% lead by weight (EPA/HUD guidelines). Recommend multiple sampling for all samples less than regulatory limit for confirmation.

All results are based on the samples as received at the lab. iATL assumes that appropriate sampling methods have been used and that the data upon which these results are based have been accurately supplied by the client.

Method Detection Limit (MDL) per EPA Method 40CFR Part 136 Appendix B.

Reporting Limit (RL) based upon Lowest Standard Determined (LSD) in accordance with AIHA-ELLAP policies.

LSD=0.2 ppm MDL=0.005% by weight. RL= 0.010% by weight (based upon 100 mg sampled).

### Disclaimers / Qualifiers:

There may be some samples in this project that have a "NOTE:" associated with a sample result. We use added disclaimers or qualifiers to inform the client about something that requires further explanation. Here is a complete list with highlighted disclaimers pertinent to this project. For a full explanation of these and other disclaimers, please inquire at [customerservice@iatl.com](mailto:customerservice@iatl.com).

- \* Insufficient sample provided to perform QC reanalysis (<200 mg)
- \*\* Not enough sample provided to analyze (<50 mg)
- \*\*\* Matrix / substrate interference possible.

## Chain of Custody

– Environmental Lead –

| <b>Contact Information</b>                                   |   |
|--|---|
| <b>Client Company:</b> <u>WSP Canada Inc.</u>                | <b>Project Number:</b> <u>Opp # 1866227</u>       |
| <b>Office Address:</b> <u>760 Enterprise Crescent</u>        | <b>Project Name:</b> <u>HMS PBS Tech Serv Bld</u> |
| <b>City, State, Zip:</b> <u>Victoria, BC, Canada V8Z 6R4</u> | <b>Primary Contact:</b> <u>Gordon Philippe</u>    |
| <b>Fax Number:</b> <u>250-475-2211</u>                       | <b>Office Phone:</b> <u>250-475-1000</u>          |
| <b>Email Address:</b> <u>Gordon.Philippe@WSP.com</u>         | <b>Cell Phone:</b> <u>250-360-6537</u>            |

iATL is accredited by the National Lead Laboratory Accreditation Program (NLLAP) to perform analytical testing of environmental samples for lead (Pb). The accreditation is through AIHA-LAP, LLC and several other nationally recognized state programs.

**Matrix/Method:**

- Paint by AAS: ASTM D3335-85a, 2009
- Wipe/Dust by AAS: SW 846: 3050B: 700B, 2010
- Air by AAS: NIOSH 7082, 1994
- Soil by AAS: EPA SW 846 (Soil)
- Water by AAS-GF: ASTM D3559-03D, US EPA 200.9
- Other Metals (Cd, Zn, Cr) by AAS
- Toxicity Characteristic Leaching Procedure (TCLP) by AAS: US EPA 1311
- Other \_\_\_\_\_

**Special Instructions:**

See attached iATL COC & Analytical Report No.: 555915 - Lead Paint dated 1/29/2018 for associated lead results.

Substrate with paint sample 18TCLP-TSB-01 is the same paint as 18L-TSB-01 analyzed in Analytical Report No.: 555915 as is -02, -03, -04, -05, -11, & -14.

**Turnaround Time**

Preliminary Results Requested Date: \_\_\_\_\_  Verbal  Email  Fax

- Specific date / time
- 10 Day  5 Day  3 Day  2 Day  1 Day\*  12 Hour\*\*  6 Hour\*\*  RUSH\*\*

\* End of next business day unless otherwise specified. \*\* Matrix Dependent. \*\*\*Please notify the lab before shipping\*\*\*

**Chain of Custody**

|   |                           |                    |             |             |
|---|---------------------------|--------------------|-------------|-------------|
| Relinquished (Name/Organization): <u>Gordon / WSP</u> | Date: <u>19 September</u> | Time: <u>16:00</u> |             |             |
| Received (Name / iATL): _____                         | Date: _____               | Time: _____        |             |             |
| Sample Login (Name / iATL): _____                     | Date: _____               | Time: _____        |             |             |
| Analysis(Name(s) / iATL): <u>crystal</u>              | Date: _____               | Time: _____        |             |             |
| QA/QC Review (Name / iATL): <u>WSP/28/110</u>         | Date: _____               | Time: _____        |             | SEP 24 2018 |
| Archived / Released: _____                            | QA/QC InterLAB Use: _____ | Date: _____        | Time: _____ |             |

## Sample Log

–Environmental Lead –

Client: WSP Canada Inc. Project: Opp # 1866227/HMS PBS Tech Serv Bld

Sampling Date/Time: 19 September 2018

| Client Sample #   | iATL #                 | Location/<br>Description               | Flow<br>Rate | Start<br>End | Sampling<br>time (min) | Area (ft2)<br>Volume (L) | Results<br>( ) |
|-------------------|------------------------|--|--------------|--------------|------------------------|--------------------------|----------------|
| 18TCLP-TSB-01     | 6611557                | Grey/Plywood Floor                     |              |              | Same as                | 18L-TSB-01               |                |
| 18TCLP-TSB-02     |                        | Green-Grey/Doors                       |              |              | Same as                | 18L-TSB-02               |                |
| 18TCLP-TSB-03     | 6611558                | Light Blue/Wood Work Bench             |              |              | Same as                | 18L-TSB-03               |                |
| 18TCLP-TSB-04     | 6611560                | Brown-Grey on Orange & White/Ext Doors |              |              | Same as                | 18L-TSB-04               |                |
| 18TCLP-TSB-05     | 6611561                | Light Grey-Green/Wood Lockers          |              |              | Same as                | 18L-TSB-05               |                |
| 18CLP-TSB-11      | 6611562                | White/Ext Wood Shed                    |              |              | Same as                | 18L-TSB-11               |                |
| 18TCLP-TSB-14     | 6611563                | Medium Green/Benches & Door Int        |              |              | Same as                | 18L-TSB-14               |                |
|                   |                        |  |              |              |                        |                          |                |
|                   |                        |  |              |              |                        |                          |                |
|                   |                        |  |              |              |                        |                          |                |
|                   |                        |  |              |              |                        |                          |                |
|                   |                        |  |              |              |                        |                          |                |
|                   |                        |  |              |              |                        |                          |                |
|                   |                        |  |              |              |                        |                          |                |
|                   |                        |  |              |              |                        |                          |                |
| See attached iATL | Analytical Report No.: | 555915 - Lead Paint                    |              | dated        | 1/29/2018              | for lead                 | results        |

\* = Insufficient Sample Provided to Perform QC Reanalysis (<200mg)  
 \*\* = Insufficient Sample Provided to Analyze (<50mg) \*\*\* = Matrix / Substrate Interference Possible  
 FB = Method Requires the submittal of blank(s). ML = Multi Layered Sample. May result in inconsistent results.  
 These preliminary results are issued by iATL to expedite procedures by clients based upon the above data. iATL assumes that all of the sampling methods and data upon which these results are based, has been accurately supplied by the client. These results may not have been reviewed by the Laboratory Director. Final Certificate of Analysis will follow these preliminary results. The signed COA is to be considered the official results. All EPA, HUD, and NJDEP conditions apply.

## Chain of Custody

– Environmental Lead –

| <b>Contact Information</b>                                   |   |
|--|---|
| <b>Client Company:</b> <u>WSP Canada Inc.</u>                | <b>Project Number:</b> <u>P18-11001-63</u>        |
| <b>Office Address:</b> <u>760 Enterprise Crescent</u>        | <b>Project Name:</b> <u>HMS PBS Tech Serv Bld</u> |
| <b>City, State, Zip:</b> <u>Victoria, BC, Canada V8Z 6R4</u> | <b>Primary Contact:</b> <u>Gordon Philippe</u>    |
| <b>Fax Number:</b> <u>250-475-2211</u>                       | <b>Office Phone:</b> <u>250-475-1000</u>          |
| <b>Email Address:</b> <u>Gordon.Philippe@WSP.com</u>         | <b>Cell Phone:</b> <u>250-360-6537</u>            |

iATL is accredited by the National Lead Laboratory Accreditation Program (NLLAP) to perform analytical testing of environmental samples for lead (Pb). The accreditation is through AIHA-LAP, LLC and several other nationally recognized state programs.

**Matrix/Method:**

Paint by AAS: ASTM D3335-85a, 2009

Wipe/Dust by AAS: SW 846: 3050B: 700B, 2010

Air by AAS: NIOSH 7082, 1994

Soil by AAS: EPA SW 846 (Soil)

Water by AAS-GF: ASTM D3559-03D, US EPA 200.9

Other Metals (Cd, Zn, Cr) by AAS

Toxicity Characteristic Leaching Procedure (TCLP) by AAS: US EPA 1311

Other \_\_\_\_\_

**Special Instructions:**

\_\_\_\_\_

\_\_\_\_\_

**Turnaround Time**

Preliminary Results Requested Date: \_\_\_\_\_  Verbal  Email  Fax

Specific date / time

10 Day  5 Day  3 Day  2 Day  1 Day\*  12 Hour\*\*  6 Hour\*\*  RUSH\*\*

\* End of next business day unless otherwise specified. \*\* Matrix Dependent. \*\*\*Please notify the lab before shipping\*\*\*

**Chain of Custody**

|   |                           |                          |             |
|---|---------------------------|--------------------------|-------------|
| Relinquished (Name/Organization): <u>Gordon / WSP</u> | Date: <u>20 Jan 2018</u>  | Time: <u>15:00</u>       |             |
| Received (Name / iATL): _____                         | Date: _____               | Time: _____              |             |
| Sample Login (Name / iATL): _____                     | Date: _____               | Time: _____              |             |
| Analysis(Name(s) / iATL): <u>Philippe</u>             | Date: _____               | Time: _____              |             |
| QA/QC Review (Name / iATL): <u>h2 / 20/1/18</u>       | Date: _____               | Time: <u>JAN 24 2018</u> |             |
| Archived / Released: _____                            | QA/QC InterLAB Use: _____ | Date: _____              | Time: _____ |

## Sample Log

–Environmental Lead –

Client: WSP Canada Inc. Project: P18-11001-63/HMS PBS Tech Serv Bld

Sampling Date/Time: 17 & 18 20 Jan 2018

| Client Sample # | iATL #             | Location/<br>Description               | Flow<br>Rate | Start<br>End | Sampling<br>time (min) | Area (ft <sup>2</sup> )<br>Volume (L) | Results<br>( ) |
|-----------------|--------------------|--|--------------|--------------|------------------------|---------------------------------------|----------------|
| 18L-TSB-00      | 6429874            | White/Wood Window Frame                |              |              |                        |                                       |                |
| 18L-TSB-01      |                    | Grey/Plywood Floor                     |              |              |                        |                                       |                |
| 18L-TSB-02      | 6429875<br>6429876 | Green-Grey/Doors                       |              |              |                        |                                       |                |
| 18L-TSB-03      | 6429877            | Light Blue/Wood Work Bench             |              |              |                        |                                       |                |
| 18L-TSB-04      | 6429878            | Brown-Grey on Orange & White/Ext Doors |              |              |                        |                                       |                |
| 18L-TSB-05      | 6429879            | Light Grey-Green/Wood Lockers          |              |              |                        |                                       |                |
| 18L-TSB-06      | 6429880            | Tan/Ext Wood Siding                    |              |              |                        |                                       |                |
| 18L-TSB-07      | 6429881            | Tan/Ext Metal Siding                   |              |              |                        |                                       |                |
| 18L-TSB-08      | 6429882            | Tan/Canopy East Wood Wall              |              |              |                        |                                       |                |
| 18L-TSB-11      | 6429883            | White/Ext Wood Shed                    |              |              |                        |                                       |                |
| 18L-TSB-12      | 6429884            | Dark Brown/Ext Wood Window Trim        |              |              |                        |                                       |                |
| 18L-TSB-13      | 6429885            | Dark Brown/Ext Underside Stairs Canopy |              |              |                        |                                       |                |
| 18L-TSB-14      | 6429886            | Medium Green/Benches & Door Int        |              |              |                        |                                       |                |
| 18L-TSB-15      | 6429887            | Mint Green/Int Walls                   |              |              |                        |                                       |                |
| 18L-TSB-16      | 6429888            | Grey/Plywood Floor                     |              |              |                        |                                       |                |

\* = Insufficient Sample Provided to Perform QC Reanalysis (<200mg)

\*\* = Insufficient Sample Provided to Analyze (<50mg) \*\*\* = Matrix / Substrate Interference Possible

FB = Method Requires the submittal of blank(s). ML = Multi Layered Sample. May result in inconsistent results.

These preliminary results are issued by iATL to expedite procedures by clients based upon the above data. iATL assumes that all of the sampling methods and data upon which these results are based, has been accurately supplied by the client. These results may not have been reviewed by the Laboratory Director. Final Certificate of Analysis will follow these preliminary results. The signed COA is to be considered the official results. All EPA, HUD, and NJDEP conditions apply.


CERTIFICATE OF ANALYSIS


|  |  |
|--|--|
| Client: WSP Canada Inc<br>760 Enterprise Crescent<br>Victoria BC V8Z 6R4 | Report Date: 1/29/2018<br>Report No.: 555915 - Lead Paint<br>Project: HMS PBS Tech Serv Bld<br>Project No.: P18-11001-63 |
| Client: WSP786   |  |

LEAD PAINT SAMPLE ANALYSIS SUMMARY

|  |   |   |
|--|---|---|
| Lab No.: 6429874<br>Client No.: 18L-TSB-00 | Description: White Paint<br>Location: Window Frame, 1/17-1/20/18            | Result (% by Weight): 4.3<br>Result (ppm): 43000<br>Comments: *** |
| Lab No.: 6429875<br>Client No.: 18L-TSB-01 | Description: Grey Paint<br>Location: Plywood Floor, 1/17-1/20/18            | Result (% by Weight): 0.19<br>Result (ppm): 1900<br>Comments:     |
| Lab No.: 6429876<br>Client No.: 18L-TSB-02 | Description: Green-Grey Paint<br>Location: Doors, 1/17-1/20/18              | Result (% by Weight): 6.9<br>Result (ppm): 69000<br>Comments:     |
| Lab No.: 6429877<br>Client No.: 18L-TSB-03 | Description: Light Blue Paint<br>Location: Wood Work Bench, 1/17-1/20/18    | Result (% by Weight): 0.17<br>Result (ppm): 1700<br>Comments:     |
| Lab No.: 6429878<br>Client No.: 18L-TSB-04 | Description: Brown-Grey Paint<br>Location: Ext. Doors, 1/17-1/20/18         | Result (% by Weight): 2.4<br>Result (ppm): 24000<br>Comments:     |
| Lab No.: 6429879<br>Client No.: 18L-TSB-05 | Description: Light Grey-Green Paint<br>Location: Wood Lockers, 1/17-1/20/18 | Result (% by Weight): 0.16<br>Result (ppm): 1600<br>Comments:     |
| Lab No.: 6429880<br>Client No.: 18L-TSB-06 | Description: Tan Paint<br>Location: Ext. Wood Siding, 1/17-1/20/18          | Result (% by Weight): 0.063<br>Result (ppm): 630<br>Comments:     |
| Lab No.: 6429881<br>Client No.: 18L-TSB-07 | Description: Tan Paint<br>Location: Ext. Metal Siding, 1/17-1/20/18         | Result (% by Weight): 0.012<br>Result (ppm): 120<br>Comments:     |

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 1/24/2018  
Date Analyzed: 01/29/2018  
Signature:   
Analyst: Chad Shaffer

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director

CERTIFICATE OF ANALYSIS

Client: WSP Canada Inc  
760 Enterprise Crescent  
Victoria BC V8Z 6R4

Report Date: 1/29/2018  
Report No.: 555915 - Lead Paint  
Project: HMS PBS Tech Serv Bld  
Project No.: P18-11001-63

Client: WSP786

LEAD PAINT SAMPLE ANALYSIS SUMMARY

Lab No.: 6429882      Description: Tan Paint      Result (% by Weight): <0.0064  
Client No.: 18L-TSB-08      Location: Canopy East Wood Wall, 1/17-1/20/18      Result (ppm): <64  
Comments:

Lab No.: 6429883      Description: White Paint      Result (% by Weight): 0.14  
Client No.: 18L-TSB-11      Location: Ext. Wood Shed, 1/17-1/20/18      Result (ppm): 1400  
Comments:

Lab No.: 6429884      Description: Dark Brown Paint      Result (% by Weight): 1.4  
Client No.: 18L-TSB-12      Location: Ext. Wood Window Trim, 1/17-1/20/18      Result (ppm): 14000  
Comments:


Lab No.: 6429885      Description: Dark Brown Paint      Result (% by Weight): 0.95  
Client No.: 18L-TSB-13      Location: Ext. Underside Stairs Canopy, 1/17-1/20/18      Result (ppm): 9500  
Comments:


Lab No.: 6429886      Description: Medium Green Paint      Result (% by Weight): 0.21  
Client No.: 18L-TSB-14      Location: Benches And Door Int., 1/17-1/20/18      Result (ppm): 2100  
Comments:

Lab No.: 6429887      Description: Mint Green Paint      Result (% by Weight): 0.0096  
Client No.: 18L-TSB-15      Location: Int. Walls, 1/17-1/20/18      Result (ppm): 96  
Comments:

Lab No.: 6429888      Description: Grey Paint      Result (% by Weight): 0.0096  
Client No.: 18L-TSB-16      Location: Plywood Floor, 1/17-1/20/18      Result (ppm): 96  
Comments:

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 1/24/2018  
Date Analyzed: 01/29/2018  
Signature:   
Analyst: Chad Shaffer

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director



---

CERTIFICATE OF ANALYSIS

---

Client: WSP Canada Inc  
760 Enterprise Crescent  
Victoria BC V8Z 6R4

Report Date: 1/29/2018  
Report No.: 555915 - Lead Paint  
Project: HMS PBS Tech Serv Bld  
Project No.: P18-11001-63

Client: WSP786

## Appendix to Analytical Report:

**Customer Contact:**

Analysis: ASTM D3335-85a

This appendix seeks to promote greater understanding of any observations, exceptions, special instructions, or circumstances that the laboratory needs to communicate to the client concerning the above samples. The information below is used to help promote your ability to make the most informed decisions for you and your customers. Please note the following points of contact for any questions you may have.

iATL Customer Service: customerservice@iatl.com

iATL Office Manager: cdavis@iatl.com

iATL Account Representative: Shirley Clark

Sample Login Notes: See Batch Sheet Attached

Sample Matrix: Paint

Exceptions Noted: See Following Pages

### General Terms, Warrants, Limits, Qualifiers:

General information about iATL capabilities and client/laboratory relationships and responsibilities are spelled out in iATL policies that are listed at [www.iATL.com](http://www.iATL.com) and in our Quality Assurance Manual per ISO 17025 standard requirements. The information therein is a representation of iATL definitions and policies for turnaround times, sample submittal, collection media, blank definitions, quantification issues and limit of detection, analytical methods and procedures, sub-contracting policies, results reporting options, fees, terms, and discounts, confidentiality, sample archival and disposal, and data interpretation.

iATL warrants the test results to be of a precision normal for the type and methodology employed for each sample submitted. iATL disclaims any other warrants, expressed or implied, including warranty of fitness for a particular purpose and warranty of merchantability. iATL accepts no legal responsibility for the purpose for which the client uses test results. Any analytical work performed must be governed by our Standard Terms and Conditions. Prices, methods and detection limits may be changed without notification. Please contact your Customer Service Representative for the most current information.

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA LAP LLC, or any agency of local, state or province governments nor of any agency of the U.S. government.

This report shall not be reproduced except in full, without written approval of the laboratory.

### Information Pertinent to this Report:

Analysis by ASTM D3335-85a by AAS

Certification:

- National Lead Laboratory Program (NLLAP): AIHA-LAP, LLC No. 100188

- NYSDOH-ELAP No. 11021

Regulatory limit is 0.5% lead by weight (EPA/HUD guidelines). Recommend multiple sampling for all samples less than regulatory limit for confirmation.

All results are based on the samples as received at the lab. iATL assumes that appropriate sampling methods have been used and that the data upon which these results are based have been accurately supplied by the client.

Method Detection Limit (MDL) per EPA Method 40CFR Part 136 Appendix B.

Reporting Limit (RL) based upon Lowest Standard Determined (LSD) in accordance with AIHA-ELLAP policies.

LSD=0.2 ppm MDL=0.005% by weight. RL= 0.010% by weight (based upon 100 mg sampled).

### Disclaimers / Qualifiers:

There may be some samples in this project that have a "NOTE:" associated with a sample result. We use added disclaimers or qualifiers to inform the client about something that requires further explanation. Here is a complete list with highlighted disclaimers pertinent to this project. For a full explanation of these and other disclaimers, please inquire at [customerservice@iatl.com](mailto:customerservice@iatl.com).

\* Insufficient sample provided to perform QC reanalysis (<200 mg)

\*\* Not enough sample provided to analyze (<50 mg)

\*\*\* Matrix / substrate interference possible.

CERTIFICATE OF ANALYSIS

Client: WSP Canada Inc  
760 Enterprise Crescent  
Victoria BC V8Z 6R4

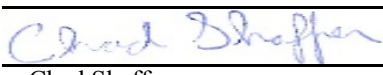
Report Date: 10/1/2018  
Report No.: 573533 - Lead TCLP  
Project: HMS PBS Tech Serv Bld  
Project No.: Opp #1866227


Client: WSP786

LEAD TCLP SAMPLE ANALYSIS SUMMARY

|   |  |   |
|---|--|---|
| Lab No.:6611557<br>Client No.:18TCLP-TSB-01 | Description:Grey Paint<br>Location:Plywood Floor                         | Total Lead (ppm): 1900<br>TCLP Result (mg/L): <0.20 |
| Lab No.:6611558<br>Client No.:18TCLP-TSB-02 | Description:Green-Grey Paint<br>Location:Doors                           | Total Lead (ppm): 69000<br>TCLP Result (mg/L): 1.5  |
| Lab No.:6611559<br>Client No.:18TCLP-TSB-03 | Description:Light Blue Paint<br>Location:Wood Work Bench                 | Total Lead (ppm): 1700<br>TCLP Result (mg/L): <0.20 |
| Lab No.:6611560<br>Client No.:18TCLP-TSB-04 | Description:Brown-Grey O Orange And white<br>Paint<br>Location:Ext Doors | Total Lead (ppm): 24000<br>TCLP Result (mg/L): 4.2  |
| Lab No.:6611561<br>Client No.:18TCLP-TSB-05 | Description:Light Grey-Green Paint<br>Location:Wood Lockers              | Total Lead (ppm): 1600<br>TCLP Result (mg/L): 3.0   |
| Lab No.:6611562<br>Client No.:18TCLP-TSB-11 | Description:White Paint<br>Location:Ext Wood Shed                        | Total Lead (ppm): 1400<br>TCLP Result (mg/L): 0.20  |
| Lab No.:6611563<br>Client No.:18TCLP-TSB-14 | Description:Medium Green Paint<br>Location:Benches And Door Int.         | Total Lead (ppm): 2100<br>TCLP Result (mg/L): 7.1   |

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 9/24/2018  
Date Analyzed: 10/01/2018  
Signature:   
Analyst: Chad Shaffer

Approved By:   
Frank E. Ehrenfeld, III  
Laboratory Director

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CERTIFICATE OF ANALYSIS

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Client: WSP Canada Inc  
760 Enterprise Crescent  
Victoria BC V8Z 6R4  
  
Client: WSP786

Report Date: 10/1/2018  
Report No.: 573533 - Lead TCLP  
Project: HMS PBS Tech Serv Bld  
Project No.: Opp #1866227

## Appendix to Analytical Report:

**Customer Contact:**  
**Analysis:** AAS - US EPA 1311

This appendix seeks to promote greater understanding of any observations, exceptions, special instructions, or circumstances that the laboratory needs to communicate to the client concerning the above samples. The information below is used to help promote your ability to make the most informed decisions for you and your customers. Please note the following points of contact for any questions you may have.

**iATL Customer Service:** customerservice@iatl.com  
**iATL Office Manager:** cdavis@iatl.com  
**iATL Account Representative:** Shirley Clark  
**Sample Matrix:** Various  
**Exceptions Noted:** See Following Pages

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### Information Pertinent to this Report:

Analysis: Toxicity Characteristic Leaching Procedure (TCLP) by AAS: USEPA 1311

Certification: - NATIONAL LEAD LABORATORY ACCREDITATION PROGRAM (NLLAP)  
NYSDOH-ELAP No. 11021

TCLP threshold value is 5.0 mg/L.

All results are based on the samples as received at the lab. iATL assumes that appropriate sampling methods have been used and that the data upon which these results are based have been accurately supplied by the client.  
Method Detection Limit (MDL) per EPA Method 40 CFR Part 136 Appendix B. Reporting Limit (RL) based upon Lowest Standard Determined (LSD) in accordance with AIHA-ELLAP policies.  
LSD = 0.2 ppm MDL = 4.7 mg/kg RL = 10 mg/kg (based upon 1000 mg sampled). Mg/kg = ppm.  
Sample results are not corrected for contamination by field or analytical blanks.

\* Samples containing 100 ppm total lead or more require TCLP analysis (Ref. 1311 Sec 1.2).

### Disclaimers / Qualifiers:

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Note: Insufficient material to provide TCLP analysis. (<55grams)

**APPENDIX**  
**IV**  
**REGULATORY**  
**FRAMEWORK**

## **REGULATORY FRAMEWORK**

1. Occupational Health and Safety Regulation (Including amendments up to Jan 1, 2018),
2. Safe Work Practices for Handling Asbestos, WorkSafeBC, (Publication Date April 2017).
3. Hazardous Waste Regulation, BC Ministry Of Environment. (Including amendments up to B.C. Reg. 179/2016, July 19, 2016).
4. Ozone Depleting Substances and other Halocarbons Regulation. (Including amendments up to B.C. Reg. 243/2016, November 1, 2017).
5. Ozone-depleting Substances and Halocarbon Alternatives Regulations, SOR/2016-137
6. BC Environmental Management Act SBC 2003, c53 (including amendments to October 30, 2017).
7. PCB Regulations, SOR / 2008-273, Canadian Environmental Protection Act.
8. Lead-Containing Paint and Coatings, Preventing Exposure in the Construction Industry, WorkSafeBC, June 2011.
9. BC Ministry of Environment Technical Guidance 4, Environmental Management Act Applications, Guideline To Managing Lead-Containing Construction and Demolition Waste In BC, Version 1.0, January 2015
10. Federal Register, 40 CFR Part 745 Lead; Identification of Dangerous Levels of Lead; Final Rule, Environmental Protection Agency, January 5, 2001
11. Transportation of Dangerous Goods Regulations SOR / 2016-95, Transportation of Dangerous Goods Act.
12. Canadian Occupational Health and Safety Regulations SOR / 86-304 (Including amendments up to June 20, 2017).
13. Canada Labour Code, Part II, - R.S.C., 1985, c. L-2

**APPENDIX**  
**V**  
**STANDARD**  
**LIMITATIONS**

**1. STANDARD OF CARE**

WSP Canada Inc. (“WSP”) prepared and issued this report (the “Report”) for its client (the “Client”) in accordance with generally-accepted consulting practices for the hazardous materials and occupational health and safety disciplines. No other warranty, expressed or implied, is made. Unless specifically stated in the Report, the Report does not address environmental issues.

The terms of reference for hazardous materials and occupational health and safety reports issued by WSP (the “Terms of Reference”) contained in the present document provide additional information and caution related to standard of care and the use of the Report. The Client should read and familiarize itself with these Terms of Reference.

**2. COMPLETENESS OF THE REPORT**

All documents, records, drawings, correspondence, data, files and deliverables, whether hard copy, electronic or otherwise, generated as part of the services for the Client are inherent components of the Report and, collectively, form the instruments of professional services (the “Instruments of Professional Services”). The Report is of a summary nature and is not intended to stand alone without reference to the instructions given to WSP by the Client, the communications between WSP and the Client, and to any other reports, writings, proposals or documents prepared by WSP for the Client relative to the specific site described in the Report, all of which constitute the Report.

TO PROPERLY UNDERSTAND THE INFORMATION, OBSERVATIONS, FINDINGS, SUGGESTIONS, RECOMMENDATIONS AND OPINIONS CONTAINED IN THE REPORT, REFERENCE MUST BE MADE TO THE WHOLE OF THE REPORT. WSP CANNOT BE RESPONSIBLE FOR USE BY ANY PARTY OF PORTIONS OF THE REPORT WITHOUT REFERENCE TO THE WHOLE REPORT AND ITS VARIOUS COMPONENTS.

**3. BASIS OF THE REPORT**

WSP prepared the Report for the Client for the specific objectives and purpose that the Client described to WSP. The applicability and reliability of any of the information, observations, findings, suggestions, recommendations and opinions contained in the Report are only valid to the extent that there was no material alteration to or variation from any of the said descriptions provided by the Client to WSP unless the Client specifically requested WSP to review and revise the Report in light of such alteration or variation.

**4. USE OF THE REPORT**

The information, observations, findings, suggestions, recommendations and opinions contained in the Report, or any component forming the Report, are for the sole use and benefit of the Client and the team of consultants selected by the Client for the specific project that the Report was provided. NO OTHER PARTY MAY USE OR RELY UPON THE REPORT OR ANY PORTION OR COMPONENT WITHOUT THE WRITTEN CONSENT OF WSP. WSP will consent to any reasonable request by the Client to approve the use of this Report by other parties designated by the Client as the “Approved Users”. As a condition for the consent of WSP to approve the use of the Report by an Approved User, the Client must provide a copy of these Terms of Reference to that Approved User and the Client must obtain written confirmation from that Approved User that the Approved User will comply with these Terms of Reference, such written confirmation to be provided separately by each Approved User prior to beginning use of the Report. The Client will provide WSP with a copy of the written confirmation from an Approved User when it becomes available to the Client, and in any case, within two weeks of the Client receiving such written confirmation.

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**5. INTERPRETATION OF THE REPORT**

- a. **Hidden Conditions:** The Client acknowledges that subsurface and concealed conditions may vary from those encountered or reviewed. WSP can only comment on the conditions observed on the date(s) the assessment is performed. The work is limited to those areas of concern identified by the Client and/or outlined in our proposal. Other areas of concern may exist but were not investigated within the scope of this assessment.
- b. **Reliance on information:** The evaluation and conclusions contained in the Report have been prepared on the basis of conditions in evidence at the time of site investigation and field review and on the basis of information provided to WSP. WSP has relied in good faith upon representations, information and instructions provided by the Client and others concerning the site. Accordingly, WSP cannot accept responsibility for any deficiency, misstatement or inaccuracy contained in the report as a result of misstatements, omissions, misrepresentations or fraudulent acts of persons providing information.
- c. **Additional Involvement by WSP:** To avoid misunderstandings, WSP should be retained to assist other professionals to explain relevant hazardous materials and occupational health and safety findings and to review the hazardous materials and occupational health and safety aspects of the plans, drawings and specifications of other professionals relative to the services provided by WSP. To ensure compliance and consistency with the applicable hazardous materials and occupational health and safety codes, legislation, regulations, guidelines and generally-accepted practices, WSP should also be retained to provide field review services during the performance of any related work. Where applicable, it is understood that such field review services must meet or exceed the minimum necessary requirements to ascertain that the work being carried out is in general conformity with the recommendations made by WSP. Any reduction from the level of services recommended by WSP will result in WSP providing qualified opinions regarding adequacy of the work.

**6. ALTERNATE REPORT FORMAT**

When WSP submits both electronic and hard copy versions of the Instruments of Professional Services, the Client agrees that only the signed and sealed hard copy versions shall be considered final and legally binding upon WSP. The hard copy versions submitted by WSP shall be the original documents for record and working purposes, and, in the event of a dispute or discrepancy, the hard copy versions shall govern over the electronic versions; furthermore, the Client agrees and waives all future right of dispute that the original hard copy signed and sealed versions of the Instruments of Professional Services maintained or retained, or both, by WSP shall be deemed to be the overall originals for the Project.

The Client agrees that the electronic file and hard copy versions of Instruments of Professional Services shall not, under any circumstances, no matter who owns or uses them, be altered by any party except WSP. The Client warrants that the Instruments of Professional Services will be used only and exactly as submitted by WSP.

The Client recognizes and agrees that WSP prepared and submitted electronic files using specific software or hardware systems, or both. WSP makes no representation about the compatibility of these files with the current or future software and hardware systems of the Client, the Approved Users or any other party. The Client further agrees that WSP is under no obligation, unless otherwise expressly specified, to provide the Client, the Approved Users and any other party, or any or all of them, with specific software and hardware systems that are compatible with any electronic submitted by WSP. The Client further agrees that should the Client, an Approved User or a third party require WSP to provide specific software or hardware systems, or both, compatible with the electronic files prepared and submitted by WSP, for any reason whatsoever included but not restricted to an order from a court, then the Client will pay WSP for all reasonable costs related to the provision of the specific software or hardware systems, or both. The Client further agrees to indemnify and hold harmless WSP, its officers, directors, employees, agents, representative or sub-consultant, or any or all of them, against any claim or any nature whatsoever brought against WSP, whether in contract or in tort, arising or related to the provision or use or any specific software or hardware provided by WSP.