



# Limited Designated Substances and Hazardous Material Survey

## OCHC Gladstone Avenue Complex

22 through 34 (even) Balsam Street; 38, 40 Balsam Street and 275 through 285 (odd) Rochester Street; 289 Rochester Street and 811 through 829 (odd) Gladstone Avenue Ottawa, Ontario

Ottawa Community Housing Corporation

GHD | 179 Colonnade Road South Suite 400 Nepean, Ontario K2E 7J4 11140575| E5 | Report No. 4 | March 12, 2018



## Executive Summary

GHD was retained by Mr. Barron Meyerhoffer representing Ottawa Community Housing Corporation (Client or OCHC) to conduct a Designated Substances (DS) Survey for the three townhouse buildings forming the OCHC, 811 Gladstone Complex occupying the west portion of the neighbourhood block formed by Balsam Street, Rochester Street, Booth Street, and Gladstone Avenue in Ottawa, Ontario (Site or Property). The Work Area, as identified by the Client, was limited to:

• The three multi-unit residential buildings that occupy the Site.

The Client and Contractors working on this project should understand the limits of the scope for this current DS Survey assignment. If the Work Area needs to be increased for unforeseen construction conditions, then further DS surveys may be required.

GHD understands that the Client intends to redevelop the Site. We understand that the proposed development will consist of demolition and removal of the existing townhouses.

It is GHD's understanding that the DS Survey was requested to evaluate the potential for the presence of designated substances at the Work Area prior to demolition.

The DS Survey included a Site inspection to identify and quantify DS, sampling and analysis, and documentation of DS Survey activities in a report. Inspection and sampling was allowed in all potentially impacted areas of the Work Area, with the exceptions of the occupied units at 26 and 28 Balsam Street, and 825 Gladstone Avenue. It should be noted that no sampling was completed on the heating system, as this system was operational at the time of the Site visit. For the purpose of this investigation, Gladstone Avenue was assumed to be the west-east axis of the Site, and each building was treated as a separate structure.

The following conclusions/recommendations were developed based on the results of the DS Survey:

- 1. Notification and/or a copy of the limited DS Survey Report should be made available to employees and Contractors working in the Work Area.
- 2. GHD completed an Asbestos Survey in the Work Area in accordance with O. Reg. 278/05 as part of the DS Survey. GHD's Asbestos Survey identified the following building materials as ACMs:

#### North (Balsam) Building

Friable materials include drywall joint compound which was generally in good condition. Nonfriable materials include flat tar and gravel roof in attic spaces, tar seal on foundation walls, vinyl floor tiles (12"x12" - brown, olive, dark brown with white streaks, 12"x12", tan with brown streaks, 12"x12" - brown with dark brown streaks) and pipe wrap.



#### West (Rochester) Building

Friable materials include drywall joint compound which was generally in good condition. Non-friable materials include tar seal on foundation walls and vinyl floor tiles (12"x12" – battleship brown, 12"x12" – mock tile pattern, 12"x12" – mock grey stone pattern).

#### South (Gladstone) Building

Friable materials include drywall joint compound which was generally in good condition. Non-friable materials include flat tar and gravel roof in attic spaces, tar seal on foundation walls, vinyl floor tiles (12"x12" – olive with white streaks, 12"x12" – brown with white streaks, 12"x12" olive/brown with white streaks) and pipe wrap (assumed based on testing in North (Balsam) Building.

A contractor, certified for asbestos abatement, should be retained to complete asbestos abatement services prior to demolition of the buildings.

If hidden materials that may be potential ACM are discovered during maintenance, renovation or demolition activities, work should cease until samples are analysed. Alternatively, potential or suspected ACM can be managed as ACM for handling and disposal purposes.

3. Out of the 46 submitted paint samples, 16 contained lead between 90 ppm and 1,000 ppm, as such these samples are considered to be low-level lead-containing paints (LCP). For the purposes of maintenance, renovation, or demolition activities, all paint on surfaces should be treated as LCP. The observed paint was noted to be generally well adhered to the substrate; some peeling paint was observed.

It is assumed that lead is present in electrical and plumbing services (solder), electrical conduit, batteries, and packing in older cast iron piping system materials at the Site.

A Lead Management Plan (LMP) should be prepared in accordance with 2011 Ontario Ministry of Labour (MOL) and 2014 Environmental Abatement Council of Ontario (EACO) guidelines. The LMP would protect workers during demolition, renovation, and maintenance activities which will disturb lead containing materials, until all lead containing materials are removed from the Site.

Building materials containing lead in surface coatings are typically characterized and disposed of as non-hazardous solid waste. However, the paint data should be provided to the disposal facility to provide confirmation of acceptance prior to shipping materials. Alternatively, a representative bulk sample of demolition debris could be collected and submitted for Toxicity Characteristic Leaching Procedure (TCLP) to provide confirmation that the material would not be classified as D008 leachate toxic hazardous waste.

4. Silica is present in footings, concrete block and poured concrete foundation walls, in plaster and texture coat, and in the fiberglass insulation in the Work Area. The Guideline for Silica on Construction Projects (MOL, April 2011) should be used to develop appropriate procedures to implement during maintenance, renovation, or demolition activities which disturb silica containing materials and may generate silica containing dust.



- 5. Man-made mineral fibre materials are present in fibreglass insulation on some of the pipes, and in fiberglass batt insulation found in the walls and attic space in the Work Area. Measures should be taken to control man-made mineral fibre dust hazard when the potential for creating airborne man-made mineral fibre dust entrained from such processes as renovation or demolition. The Guideline for Silica on Construction Projects (MOL, April 2011) should be used to develop appropriate procedures to implement during maintenance, renovation, or demolition activities that will disturb man-made mineral fibre materials in the Work Area.
- 6. No significant water intrusion or suspect mould growth was observed in above grade structures in the Work Area.

It was noted that the basement crawlspaces, particularly in the South (Gladstone) Building, were often partially flooded with standing water. This standing water could increase humidity in the lower floor materials and contribute to potential mould growth on these surfaces.



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## 1. Introduction

GHD was retained by Mr. Barron Meyerhoffer representing Ottawa Community Housing Corporation (Client or OCHC) to conduct a Designated Substances (DS) Survey for the three townhouse buildings forming the 811 Gladstone Avenue Complex (Site or Property). The DS Survey was conducted as detailed in our Proposal (No. 11103730Meyerhoffer-11) dated January 19, 2018, with the following exceptions:

- Townhouses numbered 26 and 28 Balsam Street were not inspected as the units were occupied.
- The attic of the West (Rochester) Building (38, 40 Balsam Street, and 277 through 285 (odd) Rochester Street) was not accessed.
- Townhouse numbered 825 Gladstone Avenue was not inspected as the unit was occupied.

For the purposes of this investigation,

- Gladstone Avenue is considered to represent the west-east axis
- The Site is occupied by three separate townhouse buildings
  - 22 through 34 (even) Balsam Street; near the north limit of the Site
  - 38, 40 Balsam Street and 275 through 285 (odd) Rochester Street; near the west limit of the Site
  - 289 Rochester Street and 811 through 829 (odd) Gladstone Avenue, near the south limit of the Site
- Each building was treated as a separate structure

The Work Area, as identified by the Client was limited to:

• The three multi-unit residential buildings that occupy the Site

GHD understands that the Client intends to redevelop the Site. We understand that the proposed development will consist of demolition and removal of the existing townhouses.

It is GHD's understanding that the DS Survey was requested to evaluate the potential for the presence of designated substances at the Work Area prior to demolition.

The report is intended to provide a general overview of the three buildings, based on a survey of a representative number of random locations in various units in the buildings. The Client and Contractors working on this project should understand the limits of the scope for this current DS Survey assignment.

The scope of the DS Survey was to identify and evaluate designated substances within the Work Area. Designated Substances are defined and regulated by the Ontario Regulation (O. Reg.) 490/09 Designated Substances, O. Reg. 278/05 Designated Substance – Asbestos on Construction Projects and in Buildings and Repair Operations and the Occupational Health and



Safety Act (OHSA) Section 30 including: acrylonitrile, arsenic, asbestos, benzene, coke oven emissions, ethylene oxide, isocyanates, lead, mercury, silica, and vinyl chloride.

The following items were not inspected or sampled as part of Site inspections since these items were not readily accessible, it was not practical to safely access for inspection or sampling, or it was not necessary to inspect based on the age and type of construction and Site contact knowledge:

- Components or wiring within motors, lights or other electrical systems, equipment, wiring, and fixtures.
- Components of the heating systems
- Materials inside sealed manufactured products (i.e., fire doors, etc.).

This DS Survey has been prepared for Ottawa Community Housing Corporation and may not be relied upon by others without the written consent of GHD. Any such unauthorized reliance on or use of this DS Survey Report, including the information and conclusions provided, will be at the third party's risk.

### 1.1 Regulations and Guidance

The DS Survey was conducted in accordance with and consideration of the following Acts, Regulations and Guidance:

- Canadian Surface Coating Materials Regulation (SOR/2005-109 dated April 19, 2005, as amended in 2010), pursuant to the 2005 Hazardous Products Act.
- The United States Department of Housing and Urban Development (HUD) Guidelines for the Evaluation and Control of Lead-based Paint in Housing.
- Occupational Health & Safety Act:
  - O. Reg. 833/90, Control of Exposure to Biological or Chemical Agents
  - O. Reg. 278/05, Asbestos on Construction Projects and in Building and Repair Operations and the corresponding Guideline (MOL, May 2011).
  - O. Reg. 490/09 Designated Substances
  - Guideline for Lead on Construction Projects (MOL, April 2011)
  - Guideline for Silica on Construction Projects (MOL, April 2011)
  - Mercury-Containing Products Pollution Prevention Fact Sheet #21 (Ministry of the Environment (MOE), September 2001).
- Environmental Protection Act:
  - O. Reg. 347/90, General Waste Management
- Lead Guideline for Construction, Renovation, Maintenance or Repair (EACO, October 2014)
- Construction Safety Association of Ontario Synthetic Vitreous Fibres, Guidelines for Construction (Construction Safety Association of Ontario, 2005).



### 1.2 Scope of Work

On January 30 and 31, 2018, Mr. Scott Wallis, a representative of GHD, completed the Site assessment of the Work Area identified by OCHC staff. The assessment involved the visual review of the Work Area, and intrusive (destructive) sampling of representative areas in the buildings. The following tasks were completed as part of the DS Survey activities:

- Site inspection (limited to the Work Area)
  - Conduct an Asbestos Containing Materials (ACM) survey, by way of sampling suspect materials.
  - Quantify and determine the condition of suspect ACM.
  - Identify and document mercury containing equipment.
  - Conduct a lead based paint (LBP) survey, by way of sampling of suspect materials.
  - Quantify and determine the condition of suspect lead containing material.
  - Identify and document suspect arsenic containing materials.
  - Identify and document Benzene containing equipment and materials.
  - Identify and document other designated substance potentially associated with the building finish materials including Acrylonitrile, Coke Oven Emissions, Isocyanates, Silica, and Vinyl Chloride.
- Preparation of an inventory of designated substances and documentation of activities and evaluations for a DS Survey Report.

The inspection was destructive in nature; holes were made in the surface of exposed materials in representative areas of the building as determined by the assessor. It is however a random sampling, and there may be hazardous building materials present in areas that were not inspected.

## 2. Site Overview

The Site occupied the western portion of the neighbourhood block formed by Balsam Street, Gladstone Avenue, Rochester Street, and Booth Street in Ottawa, Ontario. The Site is located in an area developed for institutional and mixed residential / commercial use.

The Site contains three separate multi-unit residential buildings, reportedly constructed in the 1960s. All buildings are two stories in height, wood frame construction with firewalls between units of concrete block. The building exterior is finished with a mix of brick, siding, and concrete parging. There are mechanical rooms in the north and South (Gladstone) Buildings that contain a partial basement level; the remainder of the three buildings contain an earthen floor crawlspace and concrete block foundation walls. The majority of the residential units are presently vacant.

Photographs of the Work Area identifying typical sampled materials are provided in Appendix A.



## 3. Records Review

The Client did not provide previous designated substance reports for GHD to review and was not aware of any such studies.

## 4. Site Inspections

On January 30 and 31, 2018, Mr. Scott Wallis, a representative of GHD, conducted the Site assessment of the three buildings present at the Site.

## 5. DS Survey

### 5.1 Acrylonitrile

Acrylonitrile is a colourless to pale-yellow liquid at room temperature, with an unpleasant odour. It is used in the manufacturing of synthetic fibres, rubber, coatings, and adhesives.

Based on the Site inspection and our understanding of the historical use of the Site, no sources of acrylonitrile are present in the identified Work Area.

#### 5.2 Arsenic

Arsenic is a silver-grey, brittle, crystalline solid at room temperature. Arsenic compounds are used as wood preservatives, insecticides, herbicides, in metal alloys and are naturally present in certain minerals and soils.

Based on the Site inspection, arsenic containing materials are not present in the Work Area. Arsenic may be present in decking material at the rear of the individual units; this area was outside the Work Area and direct observation of the ground surface was prevented by snow and ice cover at the time of inspection.

#### 5.3 Asbestos

Asbestos is a group of fibrous minerals that occur naturally in soil and rock. Asbestos fibres were formerly used (primarily for their insulating and fireproofing properties) in roofing shingles, ceiling tiles, floor tiles, asbestos cement products, gaskets, insulation, paper products, and other building insulating products.

GHD conducted an Asbestos Survey (Refer to Section 6 of this report for findings) to investigate suspected asbestos containing materials (ACM) within the Work Area.

#### 5.4 Benzene

Benzene is a colourless liquid at room temperature, with a sweet odour. Benzene and benzene-containing compounds are components of crude oil and refined petroleum products such as gasoline and are present in coal, natural gas, and other materials. Benzene is a component of



other chemicals that are used to make plastics, resins, nylon, synthetic rubber, lubricants, detergents, pharmaceuticals, and other materials.

At the time of the Site inspection, painted surfaces were observed, and plumbing and HVAC systems had some plastic components. Some of these materials may contain benzene in a stable form.

### 5.5 Coke Oven Emissions

Coke oven emissions are the airborne constituents of the by-product created by destructive distillation of coal and petroleum, and are a mixture of coal tar, coal tar pitch, volatiles, creosote, polycyclic aromatic hydrocarbons (PAHs), and metals. Coke oven emissions are typically associated with the production of steel and coal processing/coke manufacture.

Impacts to the Site from coke ovens are not suspected.

#### 5.6 Ethylene Oxide

Ethylene oxide is a colourless gas at room temperature and a liquid at 12 degrees Celsius (°C). It is used in the manufacture of ethylene glycol, surfactants, fumigants, fungicides, and petroleum demulsifiers.

Based on the Site inspection, and historical use of the Site, no sources of ethylene oxide are present within the Work Area.

#### 5.7 Isocyanates

Isocyanates are compounds that react with compounds containing alcohol (hydroxyl) groups to produce polyurethane polymers, which are components of polyurethane foams, thermoplastic elastomers, spandex fibres, and polyurethane paints. Isocyanates are raw materials used to manufacture polyurethane products, such as polyurethane foam, insulation materials, and surface coatings.

Based on the Site inspection, and historical use of the Site, no sources of isocyanates are present within the Work Area.

#### 5.8 Lead

Lead is a naturally occurring bluish-grey metal that is solid at room temperature. Lead is used in the manufacture of batteries, ammunition, solder, paint, and piping.

Based on Site observations, it is assumed that lead is present in electrical and plumbing equipment (solder), electrical conduit, batteries, older paints, and packing in older cast iron piping system materials at the Site.

A paint sampling program within the Work Area was conducted by GHD as part of the DS Survey, and is presented in Section 7 of this report.



### 5.9 Mercury

Mercury is a naturally occurring metal. At room temperature, it is a shiny, silver-coloured odourless liquid. When heated it becomes a colourless, odourless gas. Mercury is used in fluorescent and 'non-red' neon light tubes, electrical switches, thermostats, dental fillings, certain batteries, some measuring devices (barometers, manometers, hygrometers, and thermometers), some manufacturing processes, older paints, and is present in some roofing products and tars at low concentrations.

Based on the Site inspection, mercury may be present in the fluorescent tubes occasionally observed at the Site, in the batteries used in emergency lighting systems. Mercury may be present in manometers used in the heating system.

A mercury sampling program was not conducted by GHD as part of the DS Survey.

#### 5.10 Silica

Silica is a transparent to grey odourless powder or crystal at room temperature. It occurs widely in nature as sand, quartz, flint, and diatomite. Silica is used in the manufacture of glass, ceramics, abrasives, water treatment products, cosmetics, insecticides, paint, and foods. Silica is also used as a drying agent or preservative. Crystalline silica materials also are used in the production of concrete, cement, acoustic ceiling tiles, and ceramic tiles which are used for construction purposes.

Based on the Site inspection, crystalline silica is present in the brick, mortar, ceramic tiles, poured concrete walls, concrete block walls and in the fibreglass insulation found in the Work Area.

### 5.11 Vinyl Chloride

Vinyl chloride is a colourless, flammable gas at room temperature with a mild, sweet odour. Vinyl chloride is a degradation product of organic industrial/commercial solvents such as tetrachloroethylene (PCE) and trichloroethylene (TCE) which are used as degreasing and dry cleaning agents. One use of vinyl chloride is in the manufacture of polyvinyl chloride (PVC), which is used in many plastic products including plastic pipe, electrical cable insulation, plumbing and conduit fixtures, and clothing, upholstery, roofing, and flooring materials.

At the time of the Site inspection, GHD observed some PVC (a stable form of vinyl chloride) piping or plastic fixtures in the Work Area.

## 6. Asbestos Survey

### 6.1 Asbestos Sampling Methodology

An Asbestos Survey was conducted by GHD and samples were collected of materials in the work area in accordance with bulk asbestos sampling protocols and procedures provided in O. Reg. 278/05, Designated Substances in the Workplace: A Guide to the Asbestos Regulation for Construction Projects, Buildings and Repair Operations (MOL, revised May 2011), other guidance documents and experience.



### 6.2 Sampling

In order to verify that specific building materials do not contain asbestos, samples were collected of each material identified in the Work Area. The number of bulk samples for each type of material was determined by the requirements provided in Table 1 of O. Reg. 278 (Number of Bulk Samples Required). For this investigation, each building was treated as a separate area, containing a number of townhouse units. Samples were identified in the laboratory reports as (townhouse number)-(room identifier)-(building material)-(sample).

Bulk sample sets (64 total distinct building materials) with a total of 204 samples were submitted for analysis to determine asbestos type and, if present, the relative concentration. Photographs of typical sampled materials within the Work Area are provided in Appendix A.

The samples were submitted under Chain-of-Custody protocol to Paracel Laboratories Ltd. (Paracel) in Kingston, Ontario for asbestos analysis. Paracel is an accredited and certified laboratory. Samples of friable materials were submitted for analysis by polarized-light microscopy (PLM) using Method EPA/600/R-93/116.

#### 6.3 Results

The detailed description of the samples collected, and the analytical data is provided in Table 6.1: Summary of Asbestos Bulk Samples below. The analytical laboratory reports, Paracel Report # 1806438, has been provided in Appendix B.

Sample Identification	Sample Location	Sample Description	Asbestos Content
22-2-BSW-	Unit 22	Drywall Joint	2% Chrysotile
W1-B	2nd floor, southwest bedroom wall	Compound	Asbestos
24-2-BNW-	Unit 24	Drywall Joint	Not Analyzed
W1-C	2nd floor, northwest bedroom wall	Compound	Stop Positive*
30-2-BSW-	Unit 30	Drywall Joint	Not Analyzed
W1-B	2nd floor, southwest bedroom wall	Compound	Stop Positive*
32-2-BNE-W1-	Unit 32	Drywall Joint	Not Analyzed
C	2nd floor, northeast bedroom wall	Compound	Stop Positive*
34-K-W1-A	Unit 34	Drywall Joint	Not Analyzed
	Wall in kitchen	Compound	Stop Positive*
24-2-BNW- W2-B	Unit 24 2nd floor, northwest bedroom wall	Tar backed paper on fiberglass batt insulation	None Detected
32-2-BNW- W2-C	Unit 32 2nd floor, northwest bedroom wall	Tar backed paper on fiberglass batt insulation	None Detected
30-CRAWL- W2-D	Unit 30 crawlspace	Tar backed paper on fiberglass batt insulation	None Detected



Sample	Sample Location	Sample Description	Asbestos Content
Identification			
34-A-R1-A	Unit 34 Flat roof in attic	Tar and gravel roof	2% Chrysotile Asbestos
34-A-R1-B	Unit 34 Flat roof in attic	Tar and gravel roof	Not Analyzed Stop Positive*
34-A-R1-C	Unit 34 Flat roof in attic	Tar and gravel roof	Not Analyzed Stop Positive*
22-CRAWL- M4-A	Unit 22 Crawlspace wall	Tar seal on walls	65% Chrysotile Asbestos
30-CRAWL- M4-B	Unit 30 Crawlspace wall	Tar seal on walls	Not Analyzed Stop Positive*
34-CRAWL-W- M1-B	Unit 34 Crawlspace wall	Tar seal on walls	Not Analyzed Stop Positive*
22-2-Bath-F3- A	Unit 22 2nd floor bathroom floor	VSF - brown	Not Detected
22-2-Bath-F3- B	Unit 22 2nd floor bathroom floor	VSF - brown	Not Detected
22-2-Bath-F3- C	Unit 22 2nd floor bathroom floor	VSF - brown	Not Detected
24-2-Bath-F3- A	Unit 24 2nd floor bathroom floor	VSF – tan mottled brown	Not Detected
24-2-Bath-F3- B	Unit 24 2nd floor bathroom floor	VSF – tan mottled brown	Not Detected
32-2-Bath South-F3AC-C	Unit 32 2nd floor bathroom floor	VSF – tan mottled brown	Not Detected
30-2-Bath-F3- A	Unit 30 2nd floor bathroom floor	VSF - cream	Not Detected
30-2-Bath-F3- B	Unit 30 2nd floor bathroom floor	VSF - cream	Not Detected
30-2-Bath-F3- C	Unit 30 2nd floor bathroom floor	VSF - cream	Not Detected
32-2-Bath South-F3B-A	Unit 32 2nd floor bathroom floor	VSF – white with brown dots	Not Detected
32-2-Bath South-F3B-B	Unit 32 2nd floor bathroom floor	VSF – white with brown dots	Not Detected
32-2-Bath South-F3B-B	Unit 32 2nd floor bathroom floor	VSF – white with brown dots	Not Detected
34-2-Bath-F1- A	Unit 34 2nd floor bathroom floor	VSF – white / blue pebbles	Not Detected
34-2-Bath-F1- B	Unit 34 2nd floor bathroom floor	VSF – white / blue pebbles	Not Detected



Sample	Sample Location	Sample Description	Asbestos Content
Identification			
34-2-Bath-F1- C	Unit 34 2nd floor bathroom floor	VSF – white / blue pebbles	Not Detected
22-1-E-F3B-A	Unit 22 1st floor entry floor	VSF – mock tile	Not Detected
22-1-E-F3B-B	Unit 22 1st floor entry floor	VSF – mock tile	Not Detected
22-1-E-F3B-C	Unit 22 1st floor entry floor	VSF – mock tile	Not Detected
22-1-K-F2D-A	Unit 22 1st floor Kitchen Floor	VFT - brown	3% Chrysotile Asbestos
24-1-LR-F2C- A	Unit 24 1st floor living room floor	VFT - brown	Not Analyzed Stop Positive*
30-1-K-F2C-C	Unit 30 1st floor kitchen floor	VFT - brown	Not Analyzed Stop Positive*
22-LR-F2C-C	Unit 22 1st floor living room floor	VFT - olive	7% Chrysotile Asbestos
24-1-UR-F2E- A	Unit 24 1st floor utility room floor	VFT - olive	Not Analyzed Stop Positive*
30-1-E-F2F-B	Unit 30 1st floor entry floor	VFT - olive	Not Analyzed Stop Positive*
30-2-Bath- F2F-A	Unit 30 2nd floor bathroom floor	VFT – mottled light/dark brown	Not Detected
30-2-Bath- F2F-B	Unit 30 2nd floor bathroom floor	VFT – mottled light/dark brown	Not Detected
30-2-Bath- F2F-C	Unit 30 2nd floor bathroom floor	VFT – mottled light/dark brown	Not Detected
32-NE Entry – F2E-A	Unit 32 1St floor northeast entry floor	VFT-8"x8", dark brown white streaks	5% Chrysotile Asbestos
32-NE Entry – F2E-B	Unit 32 1St floor northeast entry floor	VFT-8"x8", dark brown white streaks	Not Analyzed Stop Positive*
32-NE Entry – F2E-C	Unit 32 1St floor northeast entry floor	VFT-8"x8", dark brown white streaks	Not Analyzed Stop Positive*
22-K-F2E-A	Unit 22 1st floor Kitchen Floor	VFT-12"x12", tan streaked brown	1% Chrysotile Asbestos
24-K-F2B-A	Unit 24 1st floor Kitchen Floor	VFT-12"x12", tan streaked brown	Not Analyzed Stop Positive*
30-K-F2B-B	Unit 30 1st floor Kitchen Floor	VFT-12"x12", tan streaked brown	Not Analyzed Stop Positive*
32-1-URSE- F2B-A	Unit 32 1st floor utility room floor	VFT-12"x12", brown streaked dark brown	3% Chrysotile Asbestos



Table 6.1 Summary of Asbestos Burk Samples – North (Barsam) Bunding					
Sample Identification	Sample Location	Sample Description	Asbestos Content		
32-1-URSE- F2B-B	Unit 32 1st floor utility room floor	VFT-12"x12", brown streaked dark brown	Not Analyzed Stop Positive*		
22-1-E-F2A-D	Unit 22 1st floor entry floor	VFT-12"x12", brown streaked dark brown	Not Analyzed Stop Positive*		
22-K-F2A-C	Unit 22 1st floor kitchen floor	VFT-12"x12", tan mottled brown and white	Not Detected		
24-1-LR-F2A- C	Unit 24 1st floor living room floor	VFT-12"x12", tan mottled brown and white	Not Detected		
34-UR-F2-B	Unit 34 1st floor utility room floor	VFT-12"x12", tan mottled brown and white	Not Detected		
32-1-URSE- F2A-A	Unit 32 1 st floor utility room floor	VFT – 12"x12", grey streaked black	Not Detected		
32-1-K-F2A-B	Unit 32 1 st floor kitchen floor	VFT – 12"x12", grey streaked black	Not Detected		
32-1-URSE- F2A-C	Unit 32 1 st floor utility room floor	VFT – 12"x12", grey streaked black	Not Detected		
32-1-URSE- F2D-A	Unit 32 1st floor utility room floor	Leveling compound	Not Detected		
32-1-URSE- F2D-B	Unit 32 1st floor utility room floor	Leveling compound	Not Detected		
32-1-URSE- F2D-C	Unit 32 1st floor utility room floor	Leveling compound	Not Detected		
NorthMech- M1-A	North mechanical room Basement – on wall near ceiling	Pipe wrap pipe insulation	5% Chrysotile Asbestos		
NorthMech- M1-A	North mechanical room Basement – on wall near ceiling	Pipe wrap pipe insulation	Not Analyzed Stop Positive*		
NorthMech- M1-A	North mechanical room Basement – on wall near ceiling	Pipe wrap pipe insulation	Not Analyzed Stop Positive*		
34-E-W5-A	Unit 34 Building exterior	Concrete stucco parge	Not Detected		
34-E-W5-B	Unit 34 Building exterior	Concrete stucco parge	Not Detected		
24-E-W5-C	Unit 24 Building exterior	Concrete stucco parge	Not Detected		
32-2-BNE-M3- A	Unit 32 On balcony, around window	Caulking – white, rigid	Not detected		
24-E-M3-B	Unit 24 Building exterior, around window	Caulking – white, rigid	Not detected		
32-E-M3-C	Unit 32	Caulking – white, rigid	Not detected		



Sample Identification	Sample Location	Sample Description	Asbestos Content
	Building exterior, around window		
	0		

#### Table 6.2 Summary of Asbestos Bulk Samples – West (Rochester) Building

Sample	Sample Location	Sample Description	Asbestos Content
Identification			
38-R1-A	Unit 38 Flat roof above unit	Tar and gravel roofing material	None Detected
38-R1-B	Unit 38 Flat roof above unit	Tar and gravel roofing material	None Detected
40-R1-A	Unit 40 Flat roof above unit	Tar and gravel roofing material	None Detected
38-LR-W1-A	Unit 38 Wall in living room	Drywall joint compound	None Detected
40-1-K-W1-B	Unit 40 Wall in kitchen	Drywall joint compound	None Detected
277-K-W1-C	Unit 277 Wall in kitchen	Drywall joint compound	None Detected
281-LR-W1-A	Unit 281 Wall in living room	Drywall joint compound	3% Chrysotile Asbestos
285-2-BSE- W1-B	Unit 285 Wall in second floor southeast bedroom	Drywall joint compound	Not Analyzed Stop Positive*
276-CRAWL- W2-A	Unit 276 Wall in crawlspace	Tar backed paper on fiberglass batt insulation	None Detected
279-CRAWL- W2-A	Unit 279 Wall in crawlspace	Tar backed paper on fiberglass batt insulation	None Detected
285-LR-W2-A	Unit 285 Wall in living room	Tar backed paper on fiberglass batt insulation	None Detected
281-1-LR-F2B- B	Unit 281 Floor in living room	VFT-12"x12", battleship brown	5% Chrysotile Asbestos
283-1-K-F2A-A	Unit 283 Floor in kitchen	VFT-12"x12", battleship brown	Not Analyzed Stop Positive*
285-1-K-F2B-A	Unit 285 Floor in kitchen	VFT-12"x12", battleship brown	Not Analyzed Stop Positive*



Sample	Sample Location	Sample Description	Asbestos Content
Identification			
279-1-K-F2C- A	Unit 279 Floor in kitchen	VFT-12"x12", cream	None Detected
279-1-K-F2C- B	Unit 279 Floor in kitchen	VFT-12"x12", cream	None Detected
279-1-K-F2C- C	Unit 279 Floor in kitchen	VFT-12"x12", cream	None Detected
281-2-BNW- F2D-A	Unit 281 Floor in second floor northwest bedroom	VFT-12"x12", mock tiles	3% Chrysotile Asbestos
281-2-BNW- F2D-B	Unit 281 Floor in second floor northwest bedroom	VFT-12"x12", mock tiles	Not Analyzed Stop Positive*
281-2-BNW- F2D-C	Unit 281 Floor in second floor northwest bedroom	VFT-12"x12", mock tiles	Not Analyzed Stop Positive*
281-2-BSW- F2E-A	Unit 281 Floor in second floor southwest bedroom	VFT-12"x12", grey stone	2% Chrysotile Asbestos
281-2-BSW- F2E-B	Unit 281 Floor in second floor southwest bedroom	VFT-12"x12", grey stone	Not Analyzed Stop Positive*
281-2-BSW- F2E-C	Unit 281 Floor in second floor southwest bedroom	VFT-12"x12", grey stone	Not Analyzed Stop Positive*
285-CRAWL- M4-A	Unit 285 Walls in crawlspace	Tar seal on walls	65% Chrysotile Asbestos
277-CRAWL- M4-B	Unit 277 Walls in crawlspace	Tar seal on walls	Not Analyzed Stop Positive*
276-CRAWL- M4-B	Unit 276 Walls in crawlspace	Tar seal on walls	Not Analyzed Stop Positive*
281-2-BNW- W2B-A	Unit 281 Wall	Tar paper on fiberglass batt insulation	None Detected
281-2-BNW- W2B-B	Unit 281 Wall	Tar paper on fiberglass batt insulation	None Detected
281-2-BNW- W2B-C	Unit 281 Wall	Tar paper on fiberglass batt insulation	None Detected
279-2-bath-F3- A	Unit 279 2nd floor bathroom floor	VSF – white/blue pebbles Mastic - yellow	None detected None detected
281-2-bath-F3- B	Unit 281 2nd floor bathroom floor	VSF – white/blue pebbles Mastic - yellow	None detected None detected

### Table 6.2 Summary of Asbestos Bulk Samples - West (Rochester) Building



Sample Identification	Sample Location	Sample Description	Asbestos Content
285-2-bath-F3- C	Unit 285 2nd floor bathroom floor	VSF – white/blue pebbles Mastic - yellow	None detected None detected
281-2-Bath- F3A-A	Unit 281 2nd floor bathroom floor	VSF – white mottled tan	None Detected
281-2-Bath- F3A-B	Unit 281 2nd floor bathroom floor	VSF – white mottled tan	None Detected
281-2-Bath- F3A-C	Unit 281 2nd floor bathroom floor	VSF – white mottled tan	None Detected
283-1-E-F3-A	Unit 283 1st floor entry floor	VSF - white	None Detected
283-1-E-F3-B	Unit 283 1st floor entry floor	VSF - white	None Detected
283-1-E-F3-C	Unit 283 1st floor entry floor	VSF - white	None Detected
275-1-B-F3-A	Unit 275 1st floor bedroom floor	VSF - brown	None Detected
275-1-B-F3-B	Unit 275 1st floor bedroom floor	VSF - brown	None Detected
275-1-B-F3-C	Unit 275 1st floor bedroom floor	VSF - brown	None Detected
277-2-Bath- F3-A	Unit 277 2nd floor bathroom floor	VSF – brown pebbles	None Detected
277-2-Bath- F3-B	Unit 277 2nd floor bathroom floor	VSF – brown pebbles	None Detected
277-2-Bath- F3-C	Unit 277 2nd floor bathroom floor	VSF – brown pebbles	None Detected
279-1-LRSW- F2A-B	Unit 279 1st floor living room floor	VFT – 12"x12", tan with brown flecks Mastic – yellow	None Detected
279-1-KSE- F2A-B	Unit 279 1st floor kitchen floor	VFT – 12"x12", tan with brown flecks	None Detected
285-1-LR-F2B- B	Unit 285 1st floor living room floor	VFT – 12"x12", tan with brown flecks	None Detected
279-E-W5-A	Unit 279 Building exterior	Concrete stucco parge	Not Detected
279-E-W5-B	Unit 279 Building exterior	Concrete stucco parge	Not Detected
283-E-W5-C	Unit 283 Building exterior	Concrete stucco parge	Not Detected
281-M3-C	Unit 281 Building exterior, around windows	Caulking – white, rigid	Not Detected

### Table 6.2 Summary of Asbestos Bulk Samples - West (Rochester) Building



#### Table 6.2 Summary of Asbestos Bulk Samples – West (Rochester) Building

Sample Identification	Sample Location	Sample Description	Asbestos Content
279-M3-B	Unit 279 Building exterior, around windows	Caulking – white, rigid	Not Detected
283-M3-A	Unit 283 Building exterior, around windows	Caulking – white, rigid	Not Detected
Notes:			

Minimum Detection Limit (MDL) of the analytical method, 0.5 percent.

\*Indicates an asbestos content of 0.5 percent or greater

VSF - Vinyl Sheet Flooring

VFT – Vinyl Floor Tile

Sample Identification	Sample Location	Sample Description	Asbestos Content
811-2-BNW-	Unit 811	Tar and gravel roofing	1% Chrysotile
R1-A	Flat roof in attic		Asbestos
811-2-BNW-	Unit 811	Tar and gravel roofing	Not Analyzed
R1-B	Flat roof in attic		Stop Positive*
811-2-BNW-	Unit 811	Tar and gravel roofing	Not Analyzed
R1-C	Flat roof in attic		Stop Positive*
811-1-LR-C1- A	Unit 811 1st floor living room ceiling	Ceiling texture coat	Not Detected
811-1-H-C1-B	Unit 811 1st floor hall ceiling	Ceiling texture coat	Not Detected
811-2-BNW- C1-D	Unit 811 2nd floor northwest bedroom ceiling	Ceiling texture coat	Not Detected
811-2-BSE-	Unit 811	Drywall Joint	1% Chrysotile
W1-D	2nd floor southeast bedroom wall	Compound	Asbestos
817-2-BNW-	Unit 817	Drywall Joint	Not Analyzed
W1-C	2nd floor northwest bedroom wall	Compound	Stop Positive*
821-2-BSE-	Unit 821	Drywall Joint	Not Analyzed
W1-C	2 <sup>nd</sup> floor southeast bedroom wall	Compound	Stop Positive*
817-1-LR-W1-	Unit 817	Drywall Joint	Not Analyzed
A	1st floor living room wall	Compound	Stop Positive*
289-2-BSW-	Unit 289	Drywall Joint	Not Analyzed
W1-C	2nd floor southwest bedroom wall	Compound	Stop Positive*
813-2-Bath- F3-B	Unit 813 2nd floor bathroom floor	VSF-white pink pebbles	Not Detected
829-2-Bath-	Unit 829	VSF-white pink	Not Detected
F3-A	2nd floor bathroom floor	pebbles	
829-2-Bath-	Unit 829	VSF-white pink	Not Detected
F3-B	2nd floor bathroom floor	pebbles	



Sample	Sample Location	Sample Description	Asbestos Content
Identification			
817-2-Bath- F3A-B	Unit 817 2nd floor bathroom floor	VSF - cream	Not Detected
823-2-Bath- F3-B	Unit 823 2nd floor bathroom floor	VSF - cream	Not Detected
823-2-Bath- F3-C	Unit 823 2nd floor bathroom floor	VSF - cream	Not Detected
819-2-Bath- F3-A	Unit 819 2nd floor bathroom floor	VSF – brown pebbles	Not Detected
819-2-Bath- F3-B	Unit 819 2nd floor bathroom floor	VSF – brown pebbles	Not Detected
819-2-Bath- F3-C	Unit 819 2nd floor bathroom floor	VSF – brown pebbles	Not Detected
827-2-Bath- F3A-A	Unit 827 2nd floor bathroom floor	VSF – mock 9"x9" slate tiles	Not Detected
289-2-Bath- F3-A	Unit 289 2nd floor bathroom floor	VSF – mock 9"x9" slate tiles	Not Detected
289-2-Bath- F3-B	Unit 289 2nd floor bathroom floor	VSF – mock 9"x9" slate tiles	Not Detected
827-2-Bath- F3B-A	Unit 827 2nd floor bathroom floor	VSF – mock wood	Not Detected
827-2-Bath- F3B-B	Unit 827 2nd floor bathroom floor	VSF – mock wood	Not Detected
827-2-Bath- F3B-C	Unit 827 2nd floor bathroom floor	VSF – mock wood	Not Detected
821-2-Bath- F3B-A	Unit 821 2nd floor bathroom floor	VSF – mock clay white grout	Not Detected
821-2-Bath- F3B-B	Unit 821 2nd floor bathroom floor	VSF – mock clay white grout	Not Detected
821-2-Bath- F3B-C	Unit 821 2nd floor bathroom floor	VSF – mock clay white grout	Not Detected
821-2-Bath- F3A-A	Unit 821 2nd floor bathroom floor	VSF – mock clay grey grout	Not Detected
821-2-Bath- F3A-B	Unit 821 2nd floor bathroom floor	VSF – mock clay grey grout	Not Detected
821-2-Bath- F3A-C	Unit 821 2nd floor bathroom floor	VSF – mock clay grey grout	Not Detected
819-CRAWL- M4-A	Unit 819 Crawlspace walls	Tar seal on walls	60% Chrysotile Asbestos
823-CRAWL- M4-A	Unit 823 Crawlspace walls	Tar seal on walls	Not Analyzed Stop Positive*



Sample Identification	Sample Location	Sample Description	Asbestos Content
289-CRAWL- M4-B	Unit 289 Crawlspace walls	Tar seal on walls	Not Analyzed Stop Positive*
817-1-LR-W2- A	Unit 817 1st floor living room wall	Tar paper backing on fiberglass batt insulation	Not Detected
823-CRAWL- W2-D	Unit 823 Crawlspace wall	Tar paper backing on fiberglass batt insulation	Not Detected
829-2-BSE- W2-B	Unit 829 2nd floor southeast bedroom wall	Tar paper backing on fiberglass batt insulation	Not Detected
813-1-H-F6-B	Unit 813 Stair between 1st and 2nd floors	Brown vinyl stair tread	Not Detected
813-1-H-F6-C	Unit 813 Stair between 1st and 2nd floors	Brown vinyl stair tread	Not Detected
822-1-H-F6-C	Unit 822 Stair between 1st and 2nd floors	Brown vinyl stair tread	Not Detected
289-1-LR-F2A- B	Unit 289 1st floor living room floor	VFT – olive white streaks	4% Chrysotile Asbestos
289-1-LR-F2A- C	Unit 289 1st floor living room floor	VFT – olive white streaks	Not Analyzed Stop Positive*
821-1-K-F2C- B	Unit 821 1st floor kitchen floor	VFT – olive white streaks	Not Analyzed Stop Positive*
823-1-UR- F2B-C	Unit 823 1st floor utility room floor	VFT-grey flecked brown	Not Detected
827-1-E-F2A-A	Unit 827 1st floor entry floor	VFT-grey flecked brown	Not Detected
827-1-K-F2A-B	Unit 827 1st floor kitchen floor	VFT-grey flecked brown	Not Detected
819-1-UR- F2B-A	Unit 819 1st floor utility room floor	VFT-brown streaked white	Not Detected
829-1-H-F2C- C	Unit 829 1st floor hallway floor	VFT-brown streaked white	3% Chrysotile Asbestos
289-1-K-F2D- C	Unit 829 1st floor kitchen floor	VFT-brown streaked white	Not Analyzed Stop Positive*
817-1-K-F2A	Unit 817 1st floor kitchen floor	VFT-tan mottled brown and white	Not Detected
819-1-K-F2A-A	Unit 819 1st floor kitchen floor	VFT-tan mottled brown and white	Not Detected
829-1-UR- F2B-B	Unit 829 1st floor utility room floor	VFT-tan mottled brown and white	Not Detected



Sample Identification	Sample Location	Sample Description	Asbestos Content
811-1-H-F2A- B	Unit 811 1st floor hallway floor	VFT-tan streaked brown	Not Detected
817-1-K-F2B-A	Unit 817 1st floor kitchen floor	VFT-tan streaked brown	Not Detected
823-2-BNW- F2A-D	Unit 823 2nd floor northwest bedroom floor	VFT-tan streaked brown	Not Detected
819-1-K-F2C- B	Unit 819 1st floor kitchen floor	VFT-olive brown with white streaks	5% Chrysotile Asbestos
819-1-K-F2C- D	Unit 819 1st floor kitchen floor	VFT-olive brown with white streaks	Not Analyzed Stop Positive*
819-1-K-F2C- E	Unit 819 1st floor kitchen floor	VFT-olive brown with white streaks	Not Analyzed Stop Positive*
811-2-BNW- F2B-A	Unit 811 2nd floor northwest bedroom floor	VFT – mock red slate	Not Detected
811-2-BSE- F2B-B	Unit 811 2nd floor southeast bedroom floor	VFT – mock red slate	Not Detected
811-2-BSE- F2B-C	Unit 811 2nd floor southeast bedroom floor	VFT – mock red slate	Not Detected
813-1-K-F2B-B	Unit 813 1st floor kitchen floor	VFT – beige mottled white and brown	Not Detected
813-1-K-F2B- C	Unit 813 1st floor kitchen floor	VFT – beige mottled white and brown	Not Detected
289-1-URNE- F2B-B	Unit 289 1st floor northeast utility room floor	VFT – beige mottled white and brown	Not Detected
821-1-K-F2B-B	Unit 821 1st floor kitchen floor	VFT-beige and white with grey backing	Not Detected
821-1-K-F2B- C	Unit 821 1st floor kitchen floor	VFT-beige and white with grey backing	Not Detected
821-1-K-F2B- D	Unit 821 1st floor kitchen floor	VFT-beige and white with grey backing	Not Detected
SOUTH MECH-M1-A	South (Gladstone) Building mechanical room Basement, on west wall near ceiling	Pipe wrap	Not Detected
SOUTH MECH-M1-B	South (Gladstone) Building mechanical room Basement, on west wall near ceiling	Pipe wrap	Not Detected
SOUTH MECH-M1-C	South (Gladstone) Building mechanical room	Pipe wrap	Not Detected



Sample Identification	Sample Location	Sample Description	Asbestos Content
	Basement, on west wall near ceiling		
817-E-W5-A	Unit 817 Building exterior	Concrete stucco parge	Not Detected
817-E-W5-B	Unit 817 Building exterior	Concrete stucco parge	Not Detected
829-E-W5-C	Unit 817 Building exterior	Concrete stucco parge	Not Detected
289-M3-A	Unit 289 Building exterior – by window	Caulking – white, rigid	Not Detected
811-M3-B	Unit 811 Building exterior – by door	Caulking – white, rigid	Not Detected
821-M3-C	Unit 821 Building exterior – by window	Caulking – white, rigid	Not Detected
Notes: Minimum Detection Limit (MDL) of the analytical method, 0.5 percent. *Indicates an asbestos content of 0.5 percent or greater VSF – Vinyl Sheet Flooring VFT – Vinyl Floor Tile			

O. Reg. 278 defines Asbestos Containing Materials (ACMs) as a materials containing 0.5 percent by dry weight or more of asbestos fibres. The following building materials were identified as ACMs:

#### North (Balsam) Building

- Drywall Joint Compound | Friable, white colored drywall joint compound found on walls and ceilings in the building. This material was identified to contain Chrysotile asbestos at concentrations above 0.5 percent. Visually similar material was identified in all units in the building, accordingly, all drywall joint compound is assumed to be ACM. The material was generally in good condition.
- Flat Tar and Gravel Roof in Attic | Non-friable roofing materials comprising layers of tarpaper and kraft paper, bonded with layers of tar was observed on the floor of the attics above units 34, 38, and 40. This material was identified to contain Chrysotile asbestos at concentrations above 0.5 percent. It is assumed that this material is present throughout the building, and all tar and gravel flat roofing materials should be considered ACM.
- Tar seal on foundation walls | Non-Friable black tar was present in the crawlspace, used to affix Styrofoam panels to the concrete block walls, and as damp proofing on the interior of the block walls. This material was identified to contain Chrysotile asbestos at concentrations above 0.5 percent.

Visually similar material was identified in all crawlspaces of the building; accordingly all black tar damp proofing in the building is assumed to be ACM.



• Vinyl Floor Tile | Non-Friable vinyl floor tile (12"x12", brown) submitted from unit 22 (kitchen) was identified to contain Chrysotile asbestos at concentrations above 0.5 percent.

Visually similar flooring to unit 22 (kitchen) was observed in unit 24 (living room), unit 30 (kitchen); these visually similar materials should also be treated as ACM.

• Vinyl Floor Tile | Non-Friable vinyl floor tile (olive) submitted from unit 22 (living room) was identified to contain Chrysotile asbestos at concentrations above 0.5 percent.

Visually similar flooring to unit 22 (living room) was observed in unit 24 (utility room), unit 30 (entry), unit 24 (entry); these visually similar materials should also be treated as ACM.

- Vinyl Floor Tile | Non-Friable vinyl floor tile (dark brown with white streaks) was submitted from unit 32 (entry). This material was identified to contain Chrysotile asbestos at concentrations above 0.5 percent.
- Vinyl Floor Tile | Non-Friable vinyl floor tile (12"x12", tan with brown streaks) submitted from unit 22 (kitchen) was identified to contain Chrysotile asbestos at concentrations above 0.5 percent.

Visually similar flooring to unit 22 (kitchen) was observed in unit 22 (living room), unit 24 (kitchen), unit 30 (kitchen); these visually similar materials should also be treated as ACM.

• Vinyl Floor Tile | Non-Friable vinyl floor tile (12"x12", brown with dark brown streaks) submitted from unit 32 (utility room) was identified to contain Chrysotile asbestos at concentrations above 0.5 percent.

Visually similar flooring to unit 32 (utility room) was observed in unit 22 (entry); these visually similar materials should also be treated as ACM.

 Pipe wrap | Non-Friable pipe wrap pipe insulation was identified in two pipes on the basement level of the North (Balsam) Buildings mechanical room. The pipes (each approximately 8 meters (m) in length) were located affixed to the east wall near the ceiling, and extended a short distance vertically down the wall in the northeast corner of the room. This material was identified to contain Chrysotile asbestos at concentrations above 0.5 percent.

#### West (Rochester) Building

- Drywall Joint Compound | Friable, white colored drywall joint compound found on walls and ceilings in the building. This material was identified to contain Chrysotile asbestos at concentrations above 0.5 percent. Visually similar material was identified in all units in the building, accordingly, all drywall joint compound is assumed to be ACM. The material was generally in good condition.
- Tar seal on foundation walls | Non-Friable black tar was present in the crawlspace, used to affix Styrofoam panels to the concrete block walls, and as damp proofing on the interior of the block walls. This material was identified to contain Chrysotile asbestos at concentrations above 0.5 percent. Visually similar material was identified in all crawlspaces of the building; accordingly all black tar damp proofing in the building is assumed to be ACM.
- Vinyl Floor Tile | Non-Friable vinyl floor tile (12"x12", battleship brown) submitted from unit 281 (living room) was identified to contain Chrysotile asbestos at concentrations above 0.5 percent.



Visually similar flooring to unit 281 (living room) was observed in unit 279 (kitchen), unit 281 (southeast bedroom, southwest bedroom, and 2nd floor utility room), unit 283 (kitchen, and utility room); these visually similar materials should also be treated as ACM.

- Vinyl Floor Tile | Non-Friable vinyl floor tile (12"x12", mock tile pattern) was submitted from unit 281 (northwest bedroom). This material was identified to contain Chrysotile asbestos at concentrations above 0.5 percent and should be treated as ACM.
- Vinyl Floor Tile | Non-Friable vinyl floor tile (12"x12", mock grey stone pattern) was submitted from unit 281 (southwest bedroom). This material was identified to contain Chrysotile asbestos at concentrations above 0.5 percent and should be treated as ACM.

#### South (Gladstone) Building

- Drywall Joint Compound | Friable, white colored drywall joint compound found on walls and ceilings in the building. This material was identified to contain Chrysotile asbestos at concentrations above 0.5 percent. Visually similar material was identified in all units in the building, accordingly, all drywall joint compound is assumed to be ACM. The material was generally in good condition.
- Flat Tar and Gravel Roof in Attic | Non-friable roofing materials comprising layers of tarpaper and kraft paper, bonded with layers of tar was observed on the floor of the attic above unit 811. This material was identified to contain Chrysotile asbestos at concentrations above 0.5 percent. It is assumed that this material is present throughout the building, and all tar and gravel flat roofing materials should be considered ACM.
- Tar seal on foundation walls | Friable black tar was present in the crawlspace, used to affix Styrofoam panels to the concrete block walls, and as damp proofing on the interior of the block walls. This material was identified to contain Chrysotile asbestos at concentrations above 0.5 percent. Visually similar material was identified in all crawlspaces of the building; accordingly all black tar damp proofing in the building is assumed to be ACM.
- Vinyl Floor Tile | Non-Friable vinyl floor tile (12"x12", olive, with white streaks) submitted from unit 289 (living room) and identified to contain Chrysotile asbestos at concentrations above 0.5 percent.

Visually similar flooring to unit 289 (living room) was observed in unit 821 (kitchen); these visually similar materials should also be treated as ACM.

• Vinyl Floor Tile | Non-Friable vinyl floor tile (12"x12", brown with white streaks) was submitted from unit 829 (ground floor hallway) and identified to contain Chrysotile asbestos at concentrations above 0.5 percent.

Visually similar flooring to unit 829 (ground floor hallway) was observed in unit 819 (utility room), unit 289 (kitchen), and unit 289 (utility room); these visually similar materials should also be treated as ACM.

• Vinyl Floor Tile | Non-Friable vinyl floor tile (12"x12", olive/brown with white streaks) was submitted from unit 819 (kitchen). This material was identified to contain Chrysotile asbestos at concentrations above 0.5 percent, and should be treated as ACM.



• Pipe wrap | Non-Friable pipe wrap pipe insulation was identified in two pipes on the basement level of the South (Gladstone) Buildings mechanical room. The pipes (each approximately 8 meters (m) in length) were located affixed to the east wall near the ceiling, and extended a short distance vertically down the wall in the northeast corner of the room.

While the submitted samples of the pipe wrap from the South (Gladstone) Buildings mechanical room was determined to not contain asbestos, visually similar samples collected from the North (Balsam) Buildings mechanical room was identified to contain Chrysotile asbestos at concentrations above 0.5 percent. Accordingly, the Client should treat all pipe wrap insulation found at the Site as ACM.

## 7. Lead Paint Sampling

### 7.1 Lead Surface Coating Regulations and Standards

The Canadian Federal Government has been limiting the amount of lead in paint to 0.5 percent (5,000 ppm) since 1975. The Surface Coating Materials Regulation (SOR/2005-109 dated April 19, 2005), reduced the concentration of Lead in paint and surface coating materials to 600 ppm or 0.06 percent. The act was revised again 2010 Hazardous Products Act, to define Lead Containing Paint (LCP) as paint containing 0.009 percent (90 ppm) of lead. The general industry practice is to consider paint with 0.009 percent (90 ppm) or more as lead-containing paint (LCP) and paint with 0.5 percent (5000 ppm) or more as lead-based paint.

Recent EACO guidance suggests that paint containing low levels (less than 0.1 percent/1,000 parts per million) provides a low risk to building occupants as long as aggressive activities such as sanding, cutting, and hot work are not conducted on painted materials.

O. Reg. 490/09 regulates lead in industrial workplaces as a designated substance. The Ontario Ministry of Labour (MOL) Occupational Exposure Level (OEL) for workers to inorganic lead is 0.05 milligrams per cubic metre (mg/m<sup>3</sup>) for an eight-hour time-weighted average exposure. If lead is present in paint or other materials and there may be potential worker exposure at unacceptable levels, a Lead Control Program is required by the MOL to manage occupational exposures, including for renovation and demolition activities. The Guideline for Lead on Construction Projects (MOL, April 2011) provides guidance on measures to be implemented to control potential lead hazards during maintenance, renovation, or demolition activities, which involve the disturbance of materials with elevated lead levels. Lead-containing waste with certain concentrations is also regulated in accordance with O. Reg. 347/90, General – Waste Management.

### 7.2 Paint Sampling

There were 46 samples of the paint collected from the walls and ceilings found in the Work Area. With only minor exceptions the painted surfaces within the Work Area was in good condition (i.e., paint was generally well adhered to walls and ceilings) at the time of the inspection.

The paint chip samples were submitted under Chain-of-Custody protocol to Paracel Laboratories Ltd. (Paracel) in Kingston, Ontario for lead concentration analysis. Paracel is an accredited and certified laboratory. Samples of paint chips were submitted for analysis by Inductively Coupled



Plasma - Optical Emission Spectroscopy (ICP-OES) using Ministry of Environment (MOE) Method E3470.

The results of the analysis are summarized in the table below.

### 7.3 Paint Chip Testing

Samples of the paint applied to the floor and walls were collected and analyzed for lead content and are summarized in Table 7.1: Summary of Lead in Paint Chips Samples, below. The laboratory analytical reports (Paracel Reports # 1806434) have been provided in Appendix C.

Sample Identification	Sample Locations	Sample Descriptions	Lead Concentration (ug/g or ppm)	
38-K-Wall-P1	Unit 38 – 1st floor kitchen – wall	White paint	<20	
277-LR-W-P1	Unit 277 – 1st floor living room – wall	Orange paint	<20	
277-LR-Ceiling- P2	Unit 277 – 1st floor living room - ceiling	White paint	89	
277-2-BSW- Wall-P3	Unit 277 – 2nd floor southwest bedroom – ceiling	White / grey paint	<20	
279-LR-Wall-P1	Unit 279 – 1st floor living room - wall	Pale blue paint	<20	
279-2-BNW- Wall-P2	Unit 279 – 2nd floor northwest bedroom – wall	Pale blue paint	<20	
279-2-BSW- Wall-P3	Unit 279 – 2nd floor southwest bedroom – wall	Beige paint	<20	
281-2-BNW- Wall-P2	Unit 281 – 2nd floor northwest bedroom – wall	White paint	<20	
283-LR-Wall-P1	Unit 283 – 1st floor Living room - wall	Tan paint	<20	
283-2-BSW- Wall-P2	Unit 283 – 2nd floor Southwest bedroom - wall	Rose paint	<20	
283-2-BNW- Wall-P3	Unit 283 – 2nd floor Northwest bedroom - wall	Green paint	<20	
285-LR-Ceiling- P1	Unit 285 – 1st floor Living room – ceiling	White / grey paint	78	
285-2-BSE- Wall-P2	Unit 285 – 2nd floor Southeast bedroom - wall	Blue paint	<20	
285-2-BSW- Wall-P3	Unit 285 – 2nd floor Southwest bedroom – wall	Green paint	<20	
22-2-BNE-Wall- P2	Unit 22 – 2nd floor Northeast bedroom – wall	White / grey paint	<20	

Table 7.1 Summary of Lead in Paint Chip Samples



Table 7.1 Summary of Lead in Paint Chip Samples				
Sample Identification	Sample Locations	Sample Descriptions	Lead Concentration (ug/g or ppm)	
	Unit 22 – 2nd floor Northeast bedroom - ceiling	White paint	224	
- ··· - ·	Unit 24 – 1st floor Utility room – ceiling	White paint	298	
	Unit 24 – 2nd floor Northeast bedroom – wall	Blue paint	<20	
	Unit 24 – 2nd floor Northwest bedroom – wall	Aqua paint	94	
	Unit 30 – 1st floor Utility room – wall	White paint	324	
	Unit 30 – 1st floor Entry – wall	Green paint	<20	
	Unit 30 – 1st floor Living room – wall	Orange paint	<20	
	Unit 32 – 2nd floor Northeast bedroom – wall	Tan Paint	337	
	Unit 34 – 2nd floor Northwest bedroom – ceiling	White / grey paint	101	
	Unit 34 – 2nd floor Northeast bedroom – wall	Beige paint	<20	
	North mechanical room – basement Floor	Grey paint	138	
	North mechanical room – basement Wall	Beige paint	115	
	North mechanical room – basement Ceiling	Beige paint	<20	
<b>B</b> ( ) .	Unit 811 – 1st floor Kitchen – wall	Beige paint	<20	
	Unit 813 – 2nd floor Southwest bedroom – ceiling	Grey paint	57	
	Unit 813 – 1st floor Living room – wall	Beige paint	225	
	Unit 819 – 2nd floor Southwest bedroom – ceiling	Tan/white paint	23	
	Unit 819 – 1st floor Living room – wall	Beige paint	253	
	Unit 821 – 2nd floor Southeast bedroom – wall	White paint	190	
	Unit 821 – 1st floor Living room – wall	White paint	<20	

### Table 7.1 Summary of Lead in Paint Chip Samples



Sample Identification	Sample Locations	Sample Descriptions	Lead Concentration (ug/g or ppm)
823-1-LR-W-P1- white	Unit 823 – 1st floor Living room – wall	White paint	528
823-2-BSE-W- P2-cream	Unit 823 – 2nd floor Southeast bedroom – wall	Cream paint	160
823-2-BSW-W- P3-cream	Unit 823 – 2nd floor Southwest bedroom – wall	Cream paint	<20
827-2-BNW-W- P1-beige	Unit 827 – 2nd floor Northwest bedroom – wall	Beige paint	<20
827-2-BNE-W- P2-grey	Unit 827 – 2nd floor Northeast bedroom – wall	Grey paint	116
829-2-BSW-C- P1-white	Unit 829 – 2nd floor Southwest bedroom - ceiling	White paint	53
829-2-BSE-C- P2-white	Unit 829 – 2nd floor Southeast bedroom - ceiling	White paint	234
829-1-LR-W-P3- tan	Unit 829 – 1st floor Living room – wall	Tan paint	<20
289-2-BNW-W- P3-grey	Unit 289 – 2nd floor Northwest bedroom – wall	Grey paint	439
289-2-BNE-C- P2-grey	Unit 289 – 2nd floor Northeast bedroom – ceiling	Grey paint	<20
South Mech-W- P1-tan	South mechanical room – basement wall	Tan paint	30
Notes: ųg/g - micrograms per gram ppm - parts per million * Indicates a lead concentration of 5,000 ppm or greater, which has been defined as lead-based paint			

#### Table 7.1 Summary of Lead in Paint Chip Samples

All 46 paint samples had lead concentrations lower than 5,000 ppm, as such no sampled paint is considered to be a lead-based paint.

None of the 46 submitted paint samples contained lead between 1,000 ppm and 5,000 ppm, as such no sampled paint is considered to be a high-level lead-containing paint.

The 16 of the 46 submitted paint samples contained lead between 90 ppm and 1,000 ppm, as such these samples are considered to be low-level lead-containing paints.

The 30 of the 46 submitted paint samples contained lead below 90 ppm, or below the analysis method detection limit (20 ppm). These paints are not considered lead containing paints.

It is also assumed that lead is present in electrical connections and plumbing (solder), electrical conduit, batteries, and packing in older cast iron piping system materials at the Site.



Accordingly, a Lead Management Plan should be prepared for the Site prior to initiating demolition activities.

## 8. Conclusions/Recommendations

The following conclusions/recommendations were developed based on the results of the DS Survey:

- 1. Notification and/or a copy of the limited DS Survey Report should be made available to employees and Contractors working in the Work Area.
- 2. GHD completed an Asbestos Survey in the Work Area in accordance with O. Reg. 278/05 as part of the DS Survey. GHD's Asbestos Survey identified the following building materials as ACMs:

#### North (Balsam) Building

Friable materials include drywall joint compound which was generally in good condition. Non-friable materials include flat tar and gravel roof in attic spaces, tar seal on foundation walls, vinyl floor tiles (12"x12" - brown, olive, dark brown with white streaks, 12"x12", tan with brown streaks, 12"x12" - brown with dark brown streaks) and pipe wrap.

#### West (Rochester) Building

Friable materials include drywall joint compound which was generally in good condition. Non-friable materials include tar seal on foundation walls and vinyl floor tiles (12"x12" – battleship brown, 12"x12" – mock tile pattern, 12"x12" – mock grey stone pattern).

#### South (Gladstone) Building

Friable materials include drywall joint compound which was generally in good condition. Non-friable materials include flat tar and gravel roof in attic spaces, tar seal on foundation walls, vinyl floor tiles (12"x12" – olive with white streaks, 12"x12" – brown with white streaks, 12"x12", olive/brown with white streaks) and pipe wrap (assumed based on testing in North (Balsam) Building.

A contractor, certified for asbestos abatement, should be retained to complete asbestos abatement services prior to demolition of the buildings.

If hidden materials that may be potential ACM are discovered during maintenance, renovation or demolition activities, work should cease until samples are analysed. Alternatively, potential or suspected ACM can be managed as ACM for handling and disposal purposes.

3. The 16 of the 46 submitted paint samples contained lead between 90 ppm and 1,000 ppm, as such these samples are considered to be low-level lead-containing paints (LCP). For the purposes of maintenance, renovation, or demolition activities, all paint on surfaces should be treated as LCP. The observed paint was noted to be generally well adhered to the substrate; some peeling paint was observed.



It is assumed that lead is present in electrical and plumbing services (solder), electrical conduit, batteries, and packing in older cast iron piping system materials at the Site.

A Lead Management Plan (LMP) should be prepared in accordance with 2011 Ontario Ministry of Labour (MOL) and 2014 Environmental Abatement Council of Ontario (EACO) guidelines. The LMP would protect workers during demolition, renovation, and maintenance activities which will disturb lead containing materials, until all lead containing materials are removed from the Site.

Building materials containing lead in surface coatings are typically characterized and disposed of as non-hazardous solid waste. However, the paint data should be provided to the disposal facility to provide confirmation of acceptance prior to shipping materials. Alternatively, a representative bulk sample of demolition debris could be collected and submitted for Toxicity Characteristic Leaching Procedure (TCLP) to provide confirmation that the material would not be classified as D008 leachate toxic hazardous waste.

- 4. Silica is present in footings, concrete block and poured concrete foundation walls, in plaster and texture coat, and in the fiberglass insulation in the Work Area. The Guideline for Silica on Construction Projects (MOL, April 2011) should be used to develop appropriate procedures to implement during maintenance, renovation, or demolition activities which disturb silica containing materials and may generate silica containing dust.
- 5. Man-made mineral fibre materials are present in fibreglass insulation on some of the pipes, and in fiberglass batt insulation found in the walls and attic space in the Work Area. Measures should be taken to control man-made mineral fibre dust hazard when the potential for creating airborne man-made mineral fibre dust entrained from such processes as renovation or demolition. The Guideline for Silica on Construction Projects (MOL, April 2011) should be used to develop appropriate procedures to implement during maintenance, renovation, or demolition activities that will disturb man-made mineral fibre materials in the Work Area.
- 6. No significant water intrusion or suspect mould growth was observed in above grade structures in the Work Area.

It was noted that the basement crawlspaces, particularly in the South (Gladstone) Building, were often partially flooded with standing water. This standing water could increase humidity in the lower floor materials and contribute to potential mould growth on these surfaces.

## 9. Limitations

The field work component of the DS Survey was conducted by GHD on January 30 and 31, 2018. The DS Survey was completed to identify designated substances and hazardous building materials within the area defined as 'the Work Area' as identified by the Client.

GHD does not typically collect samples of building materials if said collection has the potential to compromise the integrity of the Building or its components or materials are not readily accessible. These building materials include interior of fire doors, refractory materials within boilers, gasket materials, and below grade structures. In addition, GHD does not sample energized equipment due



to the inherent electrical hazards. These include components or wiring within motors, high voltage wiring, elevators (including brakes), lights or other electrical equipment and fixtures.

This DS Survey was conducted in a manner consistent with the level of care and skill exercised by members of the profession, and was based upon information made available to GHD representatives at the time of this Assessment. GHD has analysed and evaluated the information collected during this investigation using applicable engineering and industrial hygiene techniques and principles.

Reliance or use of this report by any third party without explicit authorization from GHD and the Client does not make said third party a third party beneficiary to GHD's contract with the Client. Any such unauthorized reliance on or use of this report, including any of its information or conclusions, will be at the third party's risk. For the same reasons, no warranties or representations, expressed or implied in this report, are made to any such third party.

As applicable, the owner/operator of the subject Site is responsible for corrective or remedial action required and disclosure of any information obtained during this assessment or information contained in this report.



All of Which is Respectfully Submitted,

GHD

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Scott Wallis, B. Sc.

Jake 4

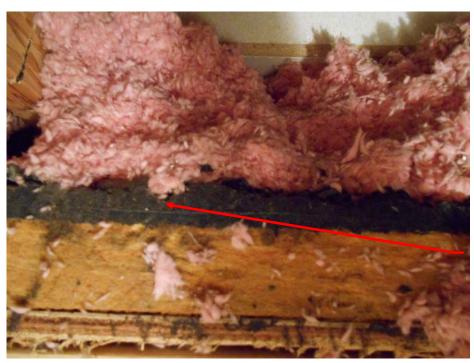
Luke Lopers, P. Eng.

# Appendices

GHD | Designated Substance Survey |11140575 (4)

# Appendix A Site Photographs

GHD | Designated Substance Survey |11140575 (4)



34-R1-A Tar and Gravel roof (ACM)

Photo 1 - North (Balsam) Building | Flat tar and gravel roof in attic



34-CRAWL-W-M1-B Tar seal on Walls (ACM)

Photo 2 – North (Balsam) Building | Tar damp proofing on crawlspace walls behind Styrofoam panels



## **Site Photographs**

GHD | Designated Substance Survey | 11140575-E5 (4) | 1



Photo 3 – North (Balsam) Building | VFT – tan streaked dark brown, VFT – brown, VFT - tan streaked brown



Photo 4 - North (Balsam) Building | VFT - olive



### **Site Photographs**

 $\textbf{GHD} \mid \textbf{Designated Substance Survey} \mid 11140575\text{-}E5 \ (4) \mid 2$ 



32-NE entry-F2E-A VFT – 8"x8", brown streaked white (ACM)

Photo 5 - North (Balsam) Building | VFT - 8"x8", brown with white streaks



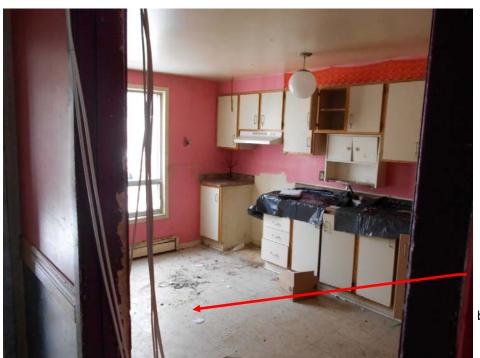
NorthMech-M1-A Sweat paper (ACM)

Photo 6 – North (Balsam) Building | sweat paper insulation on 2 pipes in basement of mechanical room



# Site Photographs

 $\textbf{GHD} \mid \textbf{Designated Substance Survey} \mid 11140575\text{-}E5 \ (4) \mid 3$ 



283-1-K-F2A-A VFT – 12"x12", battleship brown (ACM)

Photo 7 – West (Rochester) Building | VFT – 12"x12", battleship brown



Photo 8 - West (Rochester) Building | black tar damp proofing holding Styrofoam to walls



# Site Photographs

GHD | Designated Substance Survey | 11140575-E5 (4) | 4



811-2-BNW-R1-A Tar and Gravel flat roof (ACM)

Photo 9 - South (Gladstone) Building | tar and gravel flat roof forming attic floor



Photo 10 – South (Gladstone) Building | tar damp proofing used to attach Styrofoam panels to crawlspace walls



# **Site Photographs**

 $\textbf{GHD} \mid \textbf{Designated Substance Survey} \mid \textbf{11140575-E5} \ (4) \mid \textbf{5}$ 



289-1-LR-F2A-B VFT – olive grey (under laminate floor) (ACM)

Photo 11 - South (Gladstone) Building | VFT - olive grey tiles under laminate floor



289-1-K-F2D-C VFT-brown streaked white (ACM)

Photo 12 - South (Gladstone) Building | VFT - brown streaked white



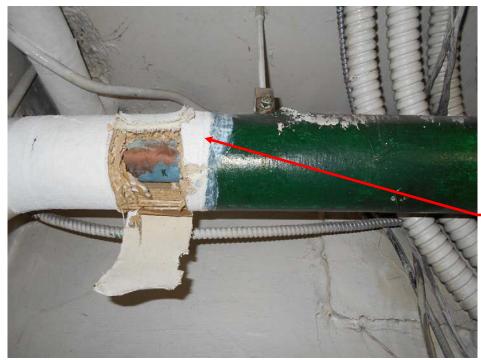
### **Site Photographs**

GHD | Designated Substance Survey | 11140575-E5 (4) | 6



819-1-K F2C-B VFT – olive brown with white streaks (ACM)

Photo 13 - South (Gladstone) Building | VFT - olive grey tiles under laminate floor



SouthMech-M1-A Sweat paper (assumed ACM)

Photo 12 – South (Gladstone) Building | South Mechanical room basement – sweat paper insulation on pipes



 $\textbf{GHD} \mid \textbf{Designated Substance Survey} \mid 11140575\text{-}E5 \ (4) \mid 7$ 





# Site Photographs

GHD | Designated Substance Survey | 11140575-E5 (4) | 8

# Appendix B Analytical Laboratory Reports - Asbestos

GHD | Designated Substance Survey |11140575 (4)



RELIABLE.

15 - 6800 Kitimat Rd Mississauga, ON, L5N 5M1 1-800-749-1947 www.paracellabs.com

# Certificate of Analysis

#### **GHD Limited (Kingston)**

1

1225 Gardiners Rd. Kingston, ON K7P 0G3 Attn: Scott Wallis

Client PO: TBD Project: 11140575-E5 Custody: 21385,26462,21386,21387,26463,464,465,466,467,468,

Report Date: 16-Feb-2018 Order Date: 9-Feb-2018

Order #: 1806438

This Certificate of Analysis contains analytical data applicable to the following samples as submitted:

Paracel ID	Client ID	
1806438-01	38-R1-A	
1806438-02	38-R1-B	
1806438-03	40-R1-A	
1806438-04	38-LR-W1-A	
1806438-05	40-1K-W1-B	
1806438-06	227-K-W1-C	
1806438-07	281-LR-W1-A	
1806438-08	285-2-BSE-W1-B	
1806438-09	276-CRAWL-W2-A	
1806438-10	279-CRAWL-W2-A	
1806438-11	285-LR-W2-A	
1806438-12	281-1-LR-F2B-B	
1806438-13	283-1-K-F2A-A	
1806438-14	285-1-K-F2B-A	
1806438-15	279-1-K-F2C-A	
1806438-16	279-1-K-F2C-B	
1806438-17	279-1-K-F2C-C	
1806438-18	281-2-BMW-F2D-A	
1806438-19	281-2-BMW-F2D-B	
1806438-20	281-2-BMW-F2D-C	
1806438-21	281-2-BSE-F2E-A	
1806438-22	281-2-BSE-F2E-B	
1806438-23	281-2-BSE-F2E-C	
1806438-24	285-CRAWL-M4-A	
1806438-25	277-CRAWL-M4-B	
1806438-26	276-CRAWL-M4-B	
	10000	Emma Diaz
Approved By:	A last	
	KX May	Senior Analyst

Any use of these results implies your agreement that our total liability in connection with this work, however arising, shall be limited to the amount paid by you for this work, and that our employees or agents shall not under any circumstances be liable to you in connection with this work.



1806438-27	281-2-BNW-W2B-A
1806438-28	281-2-BNW-W2B-B
1806438-29	281-2-BNW-W2B-C
1806438-30	279-2-Bath-F3-A
1806438-31	281-2-Bath-F3-B
1806438-32	285-2-Bath-F3-C
1806438-33	281-2-Bath-F3A-C
1806438-34	281-2-Bath-F3A-B
1806438-35	281-2-Bath-F3A-A
1806438-36	283-1-E-F3-A
1806438-37	283-1-E-F3-B
1806438-38	283-1-E-F3-C
1806438-39	276-1B-F3-A
1806438-40	276-1B-F3-B
1806438-41	276-1B-F3-C
1806438-42	277-2-Bath-F3-A
1806438-43	277-2-Bath-F3-B
1806438-44	277-2-Bath-F3-C
1806438-45	279-1-LRSW-F2A-B
1806438-46	279-1-KSE-F2A-B
1806438-47	285-1-UR-F2B-B
1806438-48	22-2-BSW-W1-B
1806438-49	24-2-BNW-W1-C
1806438-50	30-2-BSW-W1-B
1806438-51	32-2-BNE-W1-C
1806438-52	34-K-W1-A
1806438-53	24-2-BNW-W2-B
1806438-54	32-2-BNW-W2-C
1806438-55	30-CRAWL-W2-D
1806438-56	34-A-R1-A
1806438-57	34-A-R1-B
1806438-58	34-A-R1-C
1806438-59	22-CRAWL-MY-A
1806438-60	30-CRAWL-MY-B
1806438-61	34-CRAWL-W-M1-B
1806438-62	22-2-Bath-F3-A
1806438-63	22-2-Bath-F3-B
1806438-64	22-2-Bath-F3-C
1806438-65	24-2-Bath-F3-A
1806438-66	24-2-Bath-F3-B
1806438-67	32-2-Bath South-F3AC-C
1806438-68	30-2-Bath-F3-A
1806438-69	30-2-Bath-F3-B
1806438-70	30-2-Bath-F3-C



1806438-71	32-2-Bath South-F3B-A
1806438-72	32-2-Bath South-F3B-B
1806438-73	32-2-Bath South-F3B-C
1806438-74	34-2-Bath-F1-A
1806438-75	34-2-Bath-F1-B
1806438-76	34-2-Bath-F1-C
1806438-77	22-1-E-F3B-A
1806438-78	22-1-E-F3B-B
1806438-79	22-1-E-F3B-C
1806438-80	22-1-K-F2D-A
1806438-81	24-1-LR-F2C-A
1806438-82	30-1-K-F2C-C
1806438-83	22-LR-F2C-C
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1806438-87	30-2-Bath-F2D-B
1806438-88	30-2-Bath-F2D-C
1806438-89	32-NE Entry-F2E-A
1806438-90	32-NE Entry-F2E-B
1806438-91	32-NE Entry-F2E-C
1806438-92	22-K-F2E-A
1806438-93	24-K-F2B-A
1806438-94	30-K-F2B-B
1806438-95	32-1-URSE-F2B-A
1806438-96	32-1-URSE-F2B-B
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1806438-98	22-K-F2A-C
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1806438-AA	34-UR-F2-B
1806438-AB	32-1-URSE-F2A-A
1806438-AC	32-1-K-F2A-B
1806438-AD	32-1-URSE-F2A-C
1806438-AE	32-1-URSE-F2D-A
1806438-AF	32-1-URSE-F2D-B
1806438-AG	32-1-URSE-F2D-C
1806438-AH	North Mech-M1-A
1806438-AI	North Mech-M1-B
1806438-AJ	North Mech-M1-C
1806438-AK	811-2BNW-R1-A
1806438-AL	811-2BNW-R1-B
1806438-AM	811-2BNW-R1-C
1806438-AN	811-1-LR-C1-A
1806438-AO	811-1-H-C1-B



1806438-AP	811-2-BNW-C1-D
1806438-AQ	811-2-BSE-W1-D
1806438-AR	817-2-BNW-W1-C
1806438-AS	821-2-BSE-W1-C
1806438-AT	817-1-LR-W1-A
1806438-AU	289-W-BSW-W1-C
1806438-AV	813-2-Bath-F3-B
1806438-AW	829-2-Bath-F3-A
1806438-AX	829-2-Bath-F3-B
1806438-AY	817-2-Bath-F3A-B
1806438-AZ	823-2-Bath-F3-B
1806438-BA	823-2-Bath-F3-C
1806438-BB	819-2-Bath-F3-A
1806438-BC	819-2-Bath-F3-B
1806438-BD	819-2-Bath-F3-C
1806438-BE	827-2-Bath-F3A-A
1806438-BF	289-2-Bath-F3-A
1806438-BG	289-2-Bath-F3-B
1806438-BH	827-2-Bath-F3B-A
1806438-BI	827-2-Bath-F3B-B
1806438-BJ	827-2-Bath-F3B-C
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1806438-BO	821-2-Bath-F3A-B
1806438-BP	821-2-Bath-F3A-C
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1806438-BR	823-CRAWL-M4-A
1806438-BS	289-CRAWL-M4-B
1806438-BT	817-1-LR-W2-A
1806438-BU	823-CRAWL-W2-D
1806438-BV	829-2-BSE-W2-B
1806438-BW	813-1-H-F6-B
1806438-BX	813-1-H-F6-C
1806438-BY	822-1-H-F6-C
1806438-BZ	289-1-LR-F2A-B
1806438-CA	289-1-LR-F2A-C
1806438-CB	821-1-K-F2C-B
1806438-CC	823-1-UR-F2B-C
1806438-CD	827-1-E-F2A-A
1806438-CE	827-1-K-F2A-B
1806438-CF	819-1-UR-F2B-A
1806438-CG	829-1-H-F2C-C



Order #: 1806438

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1806438-CI	817-1-K-F2A
1806438-CJ	819-1-K-F2A-A
1806438-CK	829-1-UR-F2B-B
1806438-CL	811-1-H-F2A-B
1806438-CM	817-1-K-F2A-A
1806438-CN	823-2-BNW-F2A-D
1806438-CO	819-1-K-F2C-B
1806438-CP	819-1-K-F2C-D
1806438-CQ	819-1-K-F2C-E
1806438-CR	811-2-BNW-F2B-A
1806438-CS	811-2-BSE-F2B-B
1806438-CT	811-2-BSE-F2B-C
1806438-CU	813-1-K-F2B-B
1806438-CV	813-1-K-F2B-C
1806438-CW	289-1-URNE-F2B-B
1806438-CX	821-1-K-F2B-B
1806438-CY	821-1-K-F2B-C
1806438-CZ	821-1-K-F2B-D
1806438-DA	South Mech-M1-A
1806438-DB	South Mech-M1-B
1806438-DC	South Mech-M1-C
1806438-DD	817E-W5-A
1806438-DE	817E-W5-B
1806438-DF	829E-W5-C
1806438-DG	289-M3-A
1806438-DH	811-M3-B
1806438-DI	821-M3-C
1806438-DJ	34E-W5-A
1806438-DK	34E-W5-B
1806438-DL	24E-W5-C
1806438-DM	32-2-BNE-M3-A
1806438-DN	24E-M3-B
1806438-DO	32E-M3-C
1806438-DP	279E-W5-A
1806438-DQ	279E-W5-B
1806438-DR	283E-W5-C
1806438-DS	281-M3-C
1806438-DT	279E-M3-B
1806438-DU	283-M3-A



Client PO: TBD

Order #: 1806438

Report Date: 16-Feb-2018

Order Date: 9-Feb-2018

Project Description: 11140575-E5

Asbestos,	PLM Visual	Estimation	**MDL - 0.5%**
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Paracel I.D.	Sample Date	Layers Analyzed	Colour	Description	Asbestos Detected:	Material Identification	% Content
1806438-01	31-Jan-18	sample homogenized	Black	Roofing Material	No	Client ID: 38-R1-A	[AS-PRE]
						MMVF	4
						Non-Fibers	96
1806438-02	31-Jan-18	sample homogenized	Black	Roofing Material	No	Client ID: 38-R1-B	[AS-PRE]
						MMVF	10
						Non-Fibers	90
1806438-03	31-Jan-18	sample homogenized	Black	Roofing Material	No	Client ID: 40-R1-A	[AS-PRE]
						MMVF	10
						Non-Fibers	90
1806438-04	31-Jan-18	sample homogenized	Beige	Drywall Joint Compound	No	Client ID: 38-LR-W1-A	
						Non-Fibers	100
1806438-05	31-Jan-18	sample homogenized	Beige	Drywall Joint Compound	No	Client ID: 40-1K-W1-B	
						Non-Fibers	100
1806438-06	31-Jan-18	sample homogenized	Beige	Drywall Joint Compound	No	Client ID: 227-K-W1-C	
						Non-Fibers	100
1806438-07	31-Jan-18	31-Jan-18 sample homogenized	d Beige	Drywall Joint Compound	Yes	Client ID: 281-LR-W1-A	
						Chrysotile	3
						Non-Fibers	97
1806438-08	31-Jan-18					Client ID: 285-2-BSE-W1-B	
						not analyzed	
1806438-09	31-Jan-18	sample homogenized	Black	Tar Paper	No	Client ID: 276-CRAWL-W2-A	
						Cellulose	80
						Non-Fibers	20
1806438-10	31-Jan-18	sample homogenized	Black	Tar Paper	No	Client ID: 279-CRAWL-W2-A	
						Cellulose	80
						Non-Fibers	20
1806438-11	31-Jan-18	sample homogenized	Black	Tar Paper	No	Client ID: 285-LR-W2-A	
						Cellulose	80
						Non-Fibers	20
1806438-12	31-Jan-18	sample homogenized	Beige	Vinyl Floor Tile	Yes	Client ID: 281-1-LR-F2B-B	
						Chrysotile	5
						Non-Fibers	95
1806438-13	31-Jan-18					Client ID: 283-1-K-F2A-A	
						not analyzed	



Client PO: TBD

Order #: 1806438

Report Date: 16-Feb-2018

Order Date: 9-Feb-2018

Project Description: 11140575-E5

#### Asbestos, PLM Visual Estimation \*\*MDL - 0.5%\*\*

Paracel I.D.	Sample Date	Layers Analyzed	Colour	Description	Asbestos Detected:	Material Identification	% Content
1806438-14	31-Jan-18					Client ID: 285-1-K-F2B-A	
						not analyzed	
1806438-15	31-Jan-18	sample homogenized	Beige	Vinyl Floor Tile	No	Client ID: 279-1-K-F2C-A	
						Non-Fibers	100
1806438-16	31-Jan-18	sample homogenized	Beige	Vinyl Floor Tile	No	Client ID: 279-1-K-F2C-B	
						Non-Fibers	100
1806438-17	31-Jan-18	sample homogenized	Beige	Vinyl Floor Tile	No	Client ID: 279-1-K-F2C-C	
						Non-Fibers	100
1806438-18	31-Jan-18	sample homogenized	Beige	Vinyl Floor Tile	Yes	Client ID: 281-2-BMW-F2D-A	
						Chrysotile	3
						Non-Fibers	97
1806438-19	31-Jan-18					Client ID: 281-2-BMW-F2D-B	
						not analyzed	
1806438-20	31-Jan-18					Client ID: 281-2-BMW-F2D-C	
						not analyzed	
1806438-21	31-Jan-18	sample homogenized	Grey	Vinyl Floor Tile	Yes	Client ID: 281-2-BSE-F2E-A	
				-		Chrysotile	2
						Non-Fibers	98
1806438-22	31-Jan-18					Client ID: 281-2-BSE-F2E-B	
						not analyzed	
1806438-23	31-Jan-18					Client ID: 281-2-BSE-F2E-C	
						not analyzed	
1806438-24	31-Jan-18	sample homogenized	Black/White	Tar Seal	Yes	Client ID: 285-CRAWL-M4-A	[ASLYR, AS-PRI
	1 5				Chrysotile	65	
						Non-Fibers	35
1806438-25	31-Jan-18					Client ID: 277-CRAWL-M4-B	[ASLYF
						not analyzed	L
1806438-26	31-Jan-18					Client ID: 276-CRAWL-M4-B	[ASLYF
						not analyzed	piece.
1806438-27	31-Jan-18	sample homogenized	Black	Tar Paper	No	Client ID: 281-2-BNW-W2B-A	
				ı		Cellulose	80
						Non-Fibers	20
1806438-28	31-Jan-18	sample homogenized	Black	Tar Paper	No	Client ID: 281-2-BNW-W2B-B	
				i apoi		Cellulose	80
						Non-Fibers	20

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Client PO: TBD

Order #: 1806438

Report Date: 16-Feb-2018

Order Date: 9-Feb-2018

Project Description: 11140575-E5

Asbestos.	, PLM Visual Estimation	**MDL - 0.5%**
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Paracel I.D.	Sample Date	Layers Analyzed	Colour	Description	Asbestos Detected:	Material Identification	% Content
1806438-29	31-Jan-18	sample homogenized	Black	Tar Paper	No	Client ID: 281-2-BNW-W2B-C	
						Cellulose	80
						Non-Fibers	20
1806438-30	31-Jan-18	sample homogenized	White/Yellow	Vinyl Sheet Flooring/Mastic	No	Client ID: 279-2-Bath-F3-A	[ASLYR
						Cellulose	15
						Non-Fibers	85
1806438-31	31-Jan-18	sample homogenized	White/Yellow	Vinyl Sheet Flooring/Mastic	No	Client ID: 281-2-Bath-F3-B	[ASLYR
						Cellulose	15
						Non-Fibers	85
1806438-32	31-Jan-18	sample homogenized	White/Yellow	Vinyl Sheet Flooring/Mastic	No	Client ID: 285-2-Bath-F3-C	[ASLYR
						Cellulose	15
						Non-Fibers	85
1806438-33	31-Jan-18	sample homogenized	Beige	Vinyl Sheet Flooring	No	Client ID: 281-2-Bath-F3A-C	
						Non-Fibers	85
						Other fibers	15
1806438-34 31-Jan-18	31-Jan-18	sample homogenized	Beige	Vinyl Sheet Flooring	No	Client ID: 281-2-Bath-F3A-B	
						Non-Fibers	85
						Other fibers	15
1806438-35	31-Jan-18	sample homogenized	Beige	Vinyl Sheet Flooring	No	Client ID: 281-2-Bath-F3A-A	
						Non-Fibers	85
						Other fibers	15
1806438-36	31-Jan-18	sample homogenized	White	Vinyl Sheet Flooring	No	Client ID: 283-1-E-F3-A	
						Cellulose	15
						Non-Fibers	85
1806438-37	31-Jan-18	sample homogenized	White	Vinyl Sheet Flooring	No	Client ID: 283-1-E-F3-B	
						Cellulose	15
						Non-Fibers	85
1806438-38	31-Jan-18	sample homogenized	White	Vinyl Sheet Flooring	No	Client ID: 283-1-E-F3-C	
						Cellulose	15
						Non-Fibers	85
1806438-39	31-Jan-18	sample homogenized	Brown	Vinyl Sheet Flooring	No	Client ID: 276-1B-F3-A	
						Cellulose	15
						Non-Fibers	85



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Project Description: 11140575-E5

Asbestos, PLM Visual Estimation	**MDL - 0.5%**
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Paracel I.D.	Sample Date	Layers Analyzed	Colour	Description	Asbestos Detected:	Material Identification	% Content
1806438-40 31-Jan	31-Jan-18	sample homogenized	Brown	Vinyl Sheet Flooring	No	Client ID: 276-1B-F3-B	
						Cellulose	15
						Non-Fibers	85
1806438-41	31-Jan-18	sample homogenized	Brown	Vinyl Sheet Flooring	No	Client ID: 276-1B-F3-C	
						Cellulose	15
						Non-Fibers	85
1806438-42	31-Jan-18	sample homogenized	Brown	Vinyl Sheet Flooring	No	Client ID: 277-2-Bath-F3-A	
						Cellulose	15
						Non-Fibers	85
1806438-43	31-Jan-18	sample homogenized	Brown	Vinyl Sheet Flooring	No	Client ID: 277-2-Bath-F3-B	
						Cellulose	15
						Non-Fibers	85
1806438-44	31-Jan-18	sample homogenized	Brown	Vinyl Sheet Flooring	No	Client ID: 277-2-Bath-F3-C	
						Cellulose	15
						Non-Fibers	85
1806438-45 31-Jan-	31-Jan-18	sample homogenized	Beige/Yellow	Vinyl Floor Tile/Mastic	No	Client ID: 279-1-LRSW-F2A-B	[ASLYR
						Non-Fibers	100
1806438-46	31-Jan-18	sample homogenized	Beige	Vinyl Floor Tile	No	Client ID: 279-1-KSE-F2A-B	
						Non-Fibers	100
1806438-47	31-Jan-18					Client ID: 285-1-UR-F2B-B	[ASLYR
						not analyzed	
1806438-48	31-Jan-18	sample homogenized	Beige	Drywall Joint Compound	Yes	Client ID: 22-2-BSW-W1-B	
						Chrysotile	2
						Non-Fibers	98
1806438-49	31-Jan-18					Client ID: 24-2-BNW-W1-C	
						not analyzed	
1806438-50	31-Jan-18					Client ID: 30-2-BSW-W1-B	
						not analyzed	
1806438-51	31-Jan-18					Client ID: 32-2-BNE-W1-C	
						not analyzed	
1806438-52	31-Jan-18					Client ID: 34-K-W1-A	
						not analyzed	
1806438-53	31-Jan-18	sample homogenized	Black/Brown	Tar Paper	No	Client ID: 24-2-BNW-W2-B	
						Cellulose	45
						Non-Fibers	55

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Project Description: 11140575-E5

#### Asbestos, PLM Visual Estimation \*\*MDL - 0.5%\*\*

Paracel I.D.	Sample Date	Layers Analyzed	Colour	Description	Asbestos Detected:	Material Identification	% Content
1806438-54	31-Jan-18	sample homogenized	Brown/Black	Tar Paper	No	Client ID: 32-2-BNW-W2-C	
						Cellulose	45
						Non-Fibers	55
806438-55	31-Jan-18	sample homogenized	Black/Brown	Tar Paper	No	Client ID: 30-CRAWL-W2-D	
						Cellulose	45
						Non-Fibers	55
806438-56	31-Jan-18	sample homogenized	Black	Roofing Material	Yes	Client ID: 34-A-R1-A	[AS-PRE
						Chrysotile	2
						Non-Fibers	98
806438-57	31-Jan-18					Client ID: 34-A-R1-B	
						not analyzed	
806438-58	31-Jan-18					Client ID: 34-A-R1-C	
						not analyzed	
806438-59	31-Jan-18	sample homogenized	Black/White	Roofing Material	Yes	Client ID: 22-CRAWL-MY-A	[ASLYR, AS-PRE
						Chrysotile	65
						Non-Fibers	35
1806438-60 31-Jan-18	31-Jan-18					Client ID: 30-CRAWL-MY-B	[ASLYR
						not analyzed	
806438-61	31-Jan-18					Client ID: 34-CRAWL-W-M1-B	[ASLYR
						not analyzed	
806438-62	31-Jan-18	sample homogenized	Brown	Vinyl Sheet Flooring	No	Client ID: 22-2-Bath-F3-A	
						Cellulose	15
						Non-Fibers	85
806438-63	31-Jan-18	sample homogenized	Brown	Vinyl Sheet Flooring	No	Client ID: 22-2-Bath-F3-B	
						Cellulose	15
						Non-Fibers	85
1806438-64	31-Jan-18	sample homogenized	Brown	Vinyl Sheet Flooring	No	Client ID: 22-2-Bath-F3-C	
						Cellulose	15
						Non-Fibers	85
806438-65	31-Jan-18	sample homogenized	Brown	Vinyl Sheet Flooring	No	Client ID: 24-2-Bath-F3-A	
						Cellulose	15
						Non-Fibers	85
806438-66	31-Jan-18	sample homogenized	Brown	Vinyl Sheet Flooring	No	Client ID: 24-2-Bath-F3-B	
						Cellulose	15
						Non-Fibers	85



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Project Description: 11140575-E5

#### Asbestos, PLM Visual Estimation \*\*MDL - 0.5%\*\*

Paracel I.D.	Sample Date	Layers Analyzed	Colour	Description	Asbestos Detected:	Material Identification	% Content
1806438-67	31-Jan-18	sample homogenized	Brown	Vinyl Sheet Flooring	No	Client ID: 32-2-Bath South-F3AC-C	
						Cellulose	15
						Non-Fibers	85
1806438-68	31-Jan-18	sample homogenized	Cream	Vinyl Sheet Flooring	No	Client ID: 30-2-Bath-F3-A	
						Non-Fibers	100
1806438-69	31-Jan-18	sample homogenized	Cream	Vinyl Sheet Flooring	No	Client ID: 30-2-Bath-F3-B	
						Non-Fibers	100
806438-70	31-Jan-18	sample homogenized	Cream	Vinyl Sheet Flooring	No	Client ID: 30-2-Bath-F3-C	
						Non-Fibers	100
1806438-71	31-Jan-18	sample homogenized	White	Vinyl Sheet Flooring	No	Client ID: 32-2-Bath South-F3B-A	
						Non-Fibers	100
1806438-72	31-Jan-18	sample homogenized	White	Vinyl Sheet Flooring	No	Client ID: 32-2-Bath South-F3B-B	
						Non-Fibers	100
1806438-73	31-Jan-18	sample homogenized	White	Vinyl Sheet Flooring	No	Client ID: 32-2-Bath South-F3B-C	
						Non-Fibers	100
1806438-74	31-Jan-18	sample homogenized	White	Vinyl Sheet Flooring	No	Client ID: 34-2-Bath-F1-A	
						Cellulose	15
						Non-Fibers	85
1806438-75	31-Jan-18	sample homogenized	White	Vinyl Sheet Flooring	No	Client ID: 34-2-Bath-F1-B	
						Cellulose	15
						Non-Fibers	85
1806438-76	31-Jan-18	sample homogenized	White	Vinyl Sheet Flooring	No	Client ID: 34-2-Bath-F1-C	
						Cellulose	15
						Non-Fibers	85
1806438-77	31-Jan-18	sample homogenized	Beige	Vinyl Sheet Flooring	No	Client ID: 22-1-E-F3B-A	
						Cellulose	15
						Non-Fibers	85
1806438-78	31-Jan-18	sample homogenized	Beige	Vinyl Sheet Flooring	No	Client ID: 22-1-E-F3B-B	
						Cellulose	15
						Non-Fibers	85
1806438-79	31-Jan-18	sample homogenized	Beige	Vinyl Sheet Flooring	No	Client ID: 22-1-E-F3B-C	
				-		Cellulose	15
						Non-Fibers	85

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Client PO: TBD

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Report Date: 16-Feb-2018

Order Date: 9-Feb-2018

Project Description: 11140575-E5

Asbestos,	PLM	Visual Estimation	**MDL - 0.5%**
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Paracel I.D.	Sample Date	Layers Analyzed	Colour	Description	Asbestos Detected:	Material Identification	% Content
806438-80	31-Jan-18	sample homogenized	Brown	Vinyl Floor Tile	Yes	Client ID: 22-1-K-F2D-A	
						Chrysotile	3
						Non-Fibers	97
806438-81	31-Jan-18					Client ID: 24-1-LR-F2C-A	
						not analyzed	
806438-82	31-Jan-18					Client ID: 30-1-K-F2C-C	
						not analyzed	
806438-83	31-Jan-18	sample homogenized	Olive	Vinyl Floor Tile	Yes	Client ID: 22-LR-F2C-C	
						Chrysotile	7
						Non-Fibers	93
806438-84	31-Jan-18					Client ID: 24-1-UR-F2E-A	
						not analyzed	
806438-85	31-Jan-18					Client ID: 30-1-E-F2F-B	
						not analyzed	
806438-86	31-Jan-18	sample homogenized	Brown	Vinyl Floor Tile	No	Client ID: 30-2-Bath-F2D-A	
						Non-Fibers	100
806438-87	31-Jan-18	sample homogenized	Brown	Vinyl Floor Tile	No	Client ID: 30-2-Bath-F2D-B	
						Non-Fibers	100
806438-88	31-Jan-18	sample homogenized	Brown	Vinyl Floor Tile	No	Client ID: 30-2-Bath-F2D-C	
						Non-Fibers	100
806438-89	31-Jan-18	sample homogenized	Brown	Vinyl Floor Tile	Yes	Client ID: 32-NE Entry-F2E-A	
						Chrysotile	5
						Non-Fibers	95
806438-90	31-Jan-18					Client ID: 32-NE Entry-F2E-B	
						not analyzed	
806438-91	31-Jan-18					Client ID: 32-NE Entry-F2E-C	
						not analyzed	
806438-92	31-Jan-18	sample homogenized	Beige	Vinyl Floor Tile	Yes	Client ID: 22-K-F2E-A	
						Chrysotile	1
						Non-Fibers	99
806438-93	31-Jan-18					Client ID: 24-K-F2B-A	
						not analyzed	
806438-94	31-Jan-18					Client ID: 30-K-F2B-B	

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Asbestos, PLM Visual Estimation **MDL - 0.5%*	Asbestos	, PLM Visual Estim	ation **MDL	- 0.5%**
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Paracel I.D.	Sample Date	Layers Analyzed	Colour	Description	Asbestos Detected:	Material Identification	% Content
1806438-95	31-Jan-18	sample homogenized	Brown	Vinyl Floor Tile	Yes	Client ID: 32-1-URSE-F2B-A	
						Chrysotile	3
						Non-Fibers	97
1806438-96	31-Jan-18					Client ID: 32-1-URSE-F2B-B	
						not analyzed	
1806438-97	31-Jan-18					Client ID: 22-1-E-F2A-D	
						not analyzed	
1806438-98	31-Jan-18	sample homogenized	Beige	Vinyl Floor Tile	No	Client ID: 22-K-F2A-C	
						Non-Fibers	100
1806438-99	31-Jan-18	sample homogenized	Beige	Vinyl Floor Tile	No	Client ID: 24-1-LR-F2-A-C	
						Non-Fibers	100
1806438-AA	31-Jan-18	sample homogenized	Beige	Vinyl Floor Tile	No	Client ID: 34-UR-F2-B	
						Non-Fibers	100
1806438-AB	31-Jan-18	sample homogenized	Grey	Vinyl Floor Tile	No	Client ID: 32-1-URSE-F2A-A	
						Non-Fibers	100
1806438-AC	31-Jan-18	sample homogenized	Grey	Vinyl Floor Tile	No	Client ID: 32-1-K-F2A-B	
						Non-Fibers	100
1806438-AD	31-Jan-18	sample homogenized	Grey	Vinyl Floor Tile	No	Client ID: 32-1-URSE-F2A-C	
						Non-Fibers	100
1806438-AE	31-Jan-18	sample homogenized	Beige/Black	Leveling Compound/Mastic	No	Client ID: 32-1-URSE-F2D-A	[ASLYF
						Non-Fibers	100
1806438-AF	31-Jan-18	sample homogenized	Beige/Black	Leveling Compound/Mastic	No	Client ID: 32-1-URSE-F2D-B	[ASLYF
						Non-Fibers	100
1806438-AG	31-Jan-18	sample homogenized	Beige/Black	Leveling Compound/Mastic	No	Client ID: 32-1-URSE-F2D-C	[ASLYF
						Non-Fibers	100
1806438-AH	31-Jan-18	sample homogenized	Brown/White	Sweat Paper	Yes	Client ID: North Mech-M1-A	
						Chrysotile	5
						Cellulose	85
						Non-Fibers	10
1806438-Al	31-Jan-18					Client ID: North Mech-M1-B	
						not analyzed	
1806438-AJ	31-Jan-18					Client ID: North Mech-M1-C	
						not analyzed	

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Client PO: TBD

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Report Date: 16-Feb-2018

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Project Description: 11140575-E5

Asbestos, PLM Visual E	Estimation **N	MDL - 0.5%**
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Paracel I.D.	Sample Date	Layers Analyzed	Colour	Description	Asbestos Detected:	Material Identification	% Content
1806438-AK	31-Jan-18	sample homogenized	Black	Roofing Material	Yes	Client ID: 811-2BNW-R1-A	[AS-PRE
						Chrysotile	1
						Non-Fibers	99
1806438-AL	31-Jan-18					Client ID: 811-2BNW-R1-B	
						not analyzed	
1806438-AM	31-Jan-18					Client ID: 811-2BNW-R1-C	
						not analyzed	
1806438-AN	31-Jan-18	sample homogenized	White	Ceiling Texture	No	Client ID: 811-1-LR-C1-A	
						Non-Fibers	100
1806438-AO	31-Jan-18	sample homogenized	White	Ceiling Texture	No	Client ID: 811-1-H-C1-B	
						Non-Fibers	100
1806438-AP	31-Jan-18	sample homogenized	White	Ceiling Texture	No	Client ID: 811-2-BNW-C1-D	
						Non-Fibers	100
1806438-AQ	31-Jan-18	sample homogenized	Beige	Drywall Joint Compound	Yes	Client ID: 811-2-BSE-W1-D	
						Chrysotile	1
						Non-Fibers	99
1806438-AR	31-Jan-18					Client ID: 817-2-BNW-W1-C	
						not analyzed	
1806438-AS	31-Jan-18					Client ID: 821-2-BSE-W1-C	
						not analyzed	
1806438-AT	31-Jan-18					Client ID: 817-1-LR-W1-A	
						not analyzed	
1806438-AU	31-Jan-18					Client ID: 289-W-BSW-W1-C	
						not analyzed	
1806438-AV	31-Jan-18	sample homogenized	Pink	Vinyl Sheet Flooring	No	Client ID: 813-2-Bath-F3-B	
						Cellulose	10
						MMVF	5
						Non-Fibers	85
1806438-AW	31-Jan-18	sample homogenized	Pink	Vinyl Sheet Flooring	No	Client ID: 829-2-Bath-F3-A	
						Cellulose	10
						MMVF	5
						Non-Fibers	85



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#### Asbestos, PLM Visual Estimation \*\*MDL - 0.5%\*\*

Paracel I.D.	Sample Date	Layers Analyzed	Colour	Description	Asbestos Detected:	Material Identification	% Content
1806438-AX	31-Jan-18	sample homogenized	Pink	Vinyl Sheet Flooring	No	Client ID: 829-2-Bath-F3-B	
						Cellulose	10
						MMVF	5
						Non-Fibers	85
1806438-AY	31-Jan-18	sample homogenized	Beige	Vinyl Sheet Flooring	No	Client ID: 817-2-Bath-F3A-B	
						Non-Fibers	100
1806438-AZ	31-Jan-18	sample homogenized	Beige	Vinyl Sheet Flooring	No	Client ID: 823-2-Bath-F3-B	
						Non-Fibers	100
1806438-BA	31-Jan-18	sample homogenized	Beige	Vinyl Sheet Flooring	No	Client ID: 823-2-Bath-F3-C	
						Non-Fibers	100
1806438-BB	31-Jan-18	sample homogenized	Brown	Vinyl Sheet Flooring	No	Client ID: 819-2-Bath-F3-A	
						Cellulose	10
						MMVF	5
						Non-Fibers	85
806438-BC 31-Jan-	31-Jan-18	sample homogenized	Brown	Vinyl Sheet Flooring	No	Client ID: 819-2-Bath-F3-B	
						Cellulose	10
						MMVF	5
						Non-Fibers	85
1806438-BD	31-Jan-18	sample homogenized	Brown	Vinyl Sheet Flooring	No	Client ID: 819-2-Bath-F3-C	
						Cellulose	10
						MMVF	5
						Non-Fibers	85
1806438-BE	31-Jan-18	sample homogenized	Brown/Yellow	Vinyl Sheet Flooring/Adhesive	e No	Client ID: 827-2-Bath-F3A-A	[ASLYR
						Cellulose	15
						MMVF	5
						Non-Fibers	80
1806438-BF	31-Jan-18	sample homogenized	Brown/Yellow	Vinyl Sheet Flooring/Adhesive	e No	Client ID: 289-2-Bath-F3-A	[ASLYR
						Cellulose	15
						MMVF	5
						Non-Fibers	80
1806438-BG	31-Jan-18	sample homogenized	Brown/Yellow	Vinyl Sheet Flooring/Adhesive	e No	Client ID: 289-2-Bath-F3-B	[ASLYR
						Cellulose	15
						MMVF	5
						Non-Fibers	80

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Asbestos, PLM	Visual Estimation	**MDL - 0.5%**

Paracel I.D.	Sample Date	Layers Analyzed	Colour	Description	Asbestos Detected:	Material Identification	% Content
1806438-BH	31-Jan-18	sample homogenized	Brown	Vinyl Sheet Flooring	No	Client ID: 827-2-Bath-F3B-A	
						Cellulose	15
						Non-Fibers	85
1806438-BI	31-Jan-18	sample homogenized	Brown	Vinyl Sheet Flooring	No	Client ID: 827-2-Bath-F3B-B	
						Cellulose	15
						Non-Fibers	85
806438-BJ	31-Jan-18	sample homogenized	Brown	Vinyl Sheet Flooring	No	Client ID: 827-2-Bath-F3B-C	
						Cellulose	15
						Non-Fibers	85
806438-BK	31-Jan-18	sample homogenized	White	Vinyl Sheet Flooring	No	Client ID: 821-2-Bath-F3B-A	
						Cellulose	15
						Non-Fibers	85
806438-BL	31-Jan-18	sample homogenized	White	Vinyl Sheet Flooring	No	Client ID: 821-2-Bath-F3B-B	
						Cellulose	15
						Non-Fibers	85
806438-BM	31-Jan-18	sample homogenized	White	Vinyl Sheet Flooring	No	Client ID: 821-2-Bath-F3B-C	
						Cellulose	15
						Non-Fibers	85
806438-BN	31-Jan-18	sample homogenized	Grey	Vinyl Sheet Flooring	No	Client ID: 821-2-Bath-F3A-A	
						Cellulose	15
						Non-Fibers	85
806438-B0	31-Jan-18	sample homogenized	Grey	Vinyl Sheet Flooring	No	Client ID: 821-2-Bath-F3A-B	
						Cellulose	15
						Non-Fibers	85
806438-BP	31-Jan-18	sample homogenized	Grey	Vinyl Sheet Flooring	No	Client ID: 821-2-Bath-F3A-C	
						Cellulose	15
						Non-Fibers	85
806438-BQ	31-Jan-18	sample homogenized	Black/White	Roofing Material	Yes	Client ID: 819-CRAWL-M4-A	[ASLYR, AS-PRE
						Chrysotile	60
						Non-Fibers	40
806438-BR	31-Jan-18					Client ID: 823-CRAWL-M4-A	[ASLYR
						not analyzed	
806438-BS	31-Jan-18					Client ID: 289-CRAWL-M4-B	[ASLYR



Client PO: TBD

Order #: 1806438

Report Date: 16-Feb-2018

Order Date: 9-Feb-2018

Project Description: 11140575-E5

#### Asbestos, PLM Visual Estimation \*\*MDL - 0.5%\*\*

Paracel I.D.	Sample Date	Layers Analyzed	Colour	Description	Asbestos Detected:	Material Identification	% Content
1806438-BT	31-Jan-18	sample homogenized	Brown/Black	Tar Paper	No	Client ID: 817-1-LR-W2-A	
						Cellulose	60
						Non-Fibers	40
806438-BU	31-Jan-18	sample homogenized	Brown/Black	Tar Paper	No	Client ID: 823-CRAWL-W2-D	
						Cellulose	60
						Non-Fibers	40
806438-BV	31-Jan-18	sample homogenized	Brown/Black	Tar Paper	No	Client ID: 829-2-BSE-W2-B	
						Cellulose	60
						Non-Fibers	40
1806438-BW	31-Jan-18	sample homogenized	Brown	Vinyl	No	Client ID: 813-1-H-F6-B	
						Non-Fibers	100
1806438-BX	31-Jan-18	sample homogenized	Brown	Vinyl	No	Client ID: 813-1-H-F6-C	
						Non-Fibers	100
1806438-BY	31-Jan-18	sample homogenized	Brown	Vinyl	No	Client ID: 822-1-H-F6-C	
						Non-Fibers	100
1806438-BZ	31-Jan-18	sample homogenized	Brown	Vinyl Floor Tile	Yes	Client ID: 289-1-LR-F2A-B	
						Chrysotile	4
						Non-Fibers	96
1806438-CA	31-Jan-18					Client ID: 289-1-LR-F2A-C	
						not analyzed	
1806438-CB	31-Jan-18					Client ID: 821-1-K-F2C-B	
						not analyzed	
1806438-CC	31-Jan-18	sample homogenized	Grey	Vinyl Floor Tile	No	Client ID: 823-1-UR-F2B-C	
						Non-Fibers	100
1806438-CD	31-Jan-18	sample homogenized	Grey	Vinyl Floor Tile	No	Client ID: 827-1-E-F2A-A	
						Non-Fibers	100
1806438-CE	31-Jan-18	sample homogenized	Grey	Vinyl Floor Tile	No	Client ID: 827-1-K-F2A-B	
						Non-Fibers	100
1806438-CF	31-Jan-18	sample homogenized	Brown	Vinyl Floor Tile	No	Client ID: 819-1-UR-F2B-A	
						Non-Fibers	100
1806438-CG	31-Jan-18	sample homogenized	Brown	Vinyl Floor Tile	Yes	Client ID: 829-1-H-F2C-C	
						Chrysotile	3
						Non-Fibers	97
1806438-CH	31-Jan-18					Client ID: 289-1-K-F2D-C	
						not analyzed	



Client PO: TBD

Order #: 1806438

Report Date: 16-Feb-2018

Order Date: 9-Feb-2018

Project Description: 11140575-E5

#### Asbestos, PLM Visual Estimation \*\*MDL - 0.5%\*\*

Paracel I.D.	Sample Date	Layers Analyzed	Colour	Description	Asbestos Detected:	Material Identification	% Content
1806438-Cl	31-Jan-18	sample homogenized	Tan	Vinyl Floor Tile	No	Client ID: 817-1-K-F2A	
						Non-Fibers	100
1806438-CJ	31-Jan-18	sample homogenized	Tan	Vinyl Floor Tile	No	Client ID: 819-1-K-F2A-A	
						Non-Fibers	100
1806438-CK	31-Jan-18	sample homogenized	Tan	Vinyl Floor Tile	No	Client ID: 829-1-UR-F2B-B	
						Non-Fibers	100
1806438-CL	31-Jan-18	sample homogenized	Brown	Vinyl Floor Tile	No	Client ID: 811-1-H-F2A-B	
						Non-Fibers	100
1806438-CM	31-Jan-18	sample homogenized	Brown	Vinyl Floor Tile	No	Client ID: 817-1-K-F2A-A	
						Non-Fibers	100
1806438-CN	31-Jan-18	sample homogenized	Brown	Vinyl Floor Tile	No	Client ID: 823-2-BNW-F2A-D	
						Non-Fibers	100
1806438-CO	31-Jan-18	sample homogenized	Olive	Vinyl Floor Tile	Yes	Client ID: 819-1-K-F2C-B	
						Chrysotile	5
						Non-Fibers	95
1806438-CP	31-Jan-18					Client ID: 819-1-K-F2C-D	
						not analyzed	
1806438-CQ	31-Jan-18					Client ID: 819-1-K-F2C-E	
						not analyzed	
1806438-CR	31-Jan-18	sample homogenized	Red (Black)	Vinyl Floor Tile	No	Client ID: 811-2-BNW-F2B-A	
						Non-Fibers	100
1806438-CS	31-Jan-18	sample homogenized	Red (Black)	Vinyl Floor Tile	No	Client ID: 811-2-BSE-F2B-B	
						Non-Fibers	100
1806438-CT	31-Jan-18	sample homogenized	Red (Black)	Vinyl Floor Tile	No	Client ID: 811-2-BSE-F2B-C	
						Non-Fibers	100
1806438-CU	31-Jan-18	sample homogenized	Beige	Vinyl Floor Tile	No	Client ID: 813-1-K-F2B-B	
						Non-Fibers	100
1806438-CV	31-Jan-18	sample homogenized	Beige	Vinyl Floor Tile	No	Client ID: 813-1-K-F2B-C	
						Non-Fibers	100
1806438-CW	31-Jan-18	sample homogenized	Beige	Vinyl Floor Tile	No	Client ID: 289-1-URNE-F2B-B	
						Non-Fibers	100
1806438-CX	31-Jan-18	sample homogenized	Beige (Black)	Vinyl Floor Tile	No	Client ID: 821-1-K-F2B-B	
						Non-Fibers	100
1806438-CY	31-Jan-18	sample homogenized	Beige (Black)	Vinyl Floor Tile	No	Client ID: 821-1-K-F2B-C	
						Non-Fibers	100

OTTAWA • CALGARY • MISSISSAUGA • KINGSTON • LONDON • NIAGARA • WINDSOR



Client PO: TBD

Order #: 1806438

Report Date: 16-Feb-2018

Order Date: 9-Feb-2018

Project Description: 11140575-E5

#### Asbestos, PLM Visual Estimation \*\*MDL - 0.5%\*\*

Paracel I.D.	Sample Date	Layers Analyzed	Colour	Description	Asbestos Detected:	Material Identification	% Content
1806438-CZ	31-Jan-18	sample homogenized	Beige (Black)	Vinyl Floor Tile	No	Client ID: 821-1-K-F2B-D	
						Non-Fibers	100
1806438-DA	31-Jan-18	sample homogenized	Brown	Paper	No	Client ID: South Mech-M1-A	
						Cellulose	90
						Non-Fibers	10
1806438-DB	31-Jan-18	sample homogenized	Brown	Paper	No	Client ID: South Mech-M1-B	
						Cellulose	90
						Non-Fibers	10
1806438-DC	31-Jan-18	sample homogenized	Brown	Paper	No	Client ID: South Mech-M1-C	
						Cellulose	90
						Non-Fibers	10
1806438-DD	31-Jan-18	sample homogenized	Grey	Concrete	No	Client ID: 817E-W5-A	
						Non-Fibers	100
1806438-DE	31-Jan-18	sample homogenized	Grey	Concrete	No	Client ID: 817E-W5-B	
						Non-Fibers	100
1806438-DF	31-Jan-18	sample homogenized	Grey	Concrete	No	Client ID: 829E-W5-C	
						Non-Fibers	100
1806438-DG	31-Jan-18	sample homogenized	White	Caulking	No	Client ID: 289-M3-A	
						Non-Fibers	100
1806438-DH	31-Jan-18	sample homogenized	White	Caulking	No	Client ID: 811-M3-B	
						Non-Fibers	100
1806438-DI	31-Jan-18	sample homogenized	White	Caulking	No	Client ID: 821-M3-C	
						Non-Fibers	100
1806438-DJ	31-Jan-18	sample homogenized	Grey	Concrete	No	Client ID: 34E-W5-A	
						Non-Fibers	100
1806438-DK	31-Jan-18	sample homogenized	Grey	Concrete	No	Client ID: 34E-W5-B	
						Non-Fibers	100
1806438-DL	31-Jan-18	sample homogenized	Grey	Concrete	No	Client ID: 24E-W5-C	
						Non-Fibers	100
1806438-DM	31-Jan-18	sample homogenized	White	Caulking	No	Client ID: 32-2-BNE-M3-A	
						Non-Fibers	100
1806438-DN	31-Jan-18	sample homogenized	White	Caulking	No	Client ID: 24E-M3-B	
						Non-Fibers	100
1806438-DO	31-Jan-18	sample homogenized	White	Caulking	No	Client ID: 32E-M3-C	
		-		-		Non-Fibers	100



Client PO: TBD

Order #: 1806438

Report Date: 16-Feb-2018

Order Date: 9-Feb-2018

Project Description: 11140575-E5

#### Asbestos, PLM Visual Estimation \*\*MDL - 0.5%\*\*

Paracel I.D.	Sample Date	Layers Analyzed	Colour	Description	Asbestos Detected:	Material Identification	% Content
1806438-DP	31-Jan-18	sample homogenized	Grey	Concrete	No	Client ID: 279E-W5-A	
						Non-Fibers	100
1806438-DQ	31-Jan-18	sample homogenized	Grey	Concrete	No	Client ID: 279E-W5-B	
						Non-Fibers	100
1806438-DR	31-Jan-18	sample homogenized	Grey	Concrete	No	Client ID: 283E-W5-C	
						Non-Fibers	100
1806438-DS	31-Jan-18	sample homogenized	White	Caulking	No	Client ID: 281-M3-C	
						Non-Fibers	100
1806438-DT	31-Jan-18	sample homogenized	White	Caulking	No	Client ID: 279E-M3-B	
						Non-Fibers	100
1806438-DU	31-Jan-18	sample homogenized	White	Caulking	No	Client ID: 283-M3-A	
						Non-Fibers	100

\* MMVF: Man Made Vitreous Fibers: Fiberglass, Mineral Wool, Rockwool, Glasswool

\*\* Analytes in bold indicate asbestos mineral content.

#### **Analysis Summary Table**

Analysis	Method Reference/Description	Lab Location	NVLAP Lab Code *	Analysis Date
Asbestos, PLM Visual Estimation	by EPA 600/R-93/116	1 - Mississauga	200863-0	13-Feb-18

\* Reference to the NVLAP term does not permit the user of this report to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

#### **Qualifier Notes**

Sample Qualifiers :

ASLYR: Layers were noted for this sample, however, the entire sample was homogenized per client request.

AS-PRE: Due to the difficult nature of the bulk sample (interfering fibers/binders), additional NOB preparation was required prior to analysis

#### Work Order Revisions / Comments

None

GPARAC LABORATORIE			RUSTED	SIVE	Paracel ID: 1806438	-	(La	of Custody b Use Only) 21385	
					113 11 11		Page	L of 18	
Client Name: Scott Wallis Contact Name: GHD Ltd. Address: 1225 Gardiners Ro Kingston, ON KT Telephone: 613-389-9812	l, lin.	3		Email Address Scott	BD . wallis@ghd.com	□ Imme □ 4 Hot □ 8 Hot Date	ediate 11	round Time □ 1 D □ 2 D □ 3 D ₽ Reg d:	bay Day Day
010 041 101-		l	ASBES	STOS &	MOLD ANALYSIS		_	-	
Matrix: 🛛 Air 🖾 Bulk 🛛	Tape Lif			Other	Regulatory Guideline: DON DQC D	and the second s	ALCONTRACTOR	Other:_	
Analyses: Microscopic Mold	ulturable M	lold 🗆 Bad	teria GRA	M DPC	M Asbestos DepLM Asbestos Chatfield Asbestos		Asbesto	15	
Paracel Order Number: 1806438 Sample ID		Sampling Date	Air Volume (L)	Analysis Required	Asbestos - Bu Identify Distinct Building Materials to Be Analyz * see below		Ma	e Identified terials? e below	Positive Stop?
1 38- RI-A 2 38- RI-B 3 40- RI-A 4 38-LR-WI-A 5 40-1K-WI-B		Tanvary			Roosing Maderial DWJC		$\rangle$		
<ul> <li>277-K-WI-C</li> <li>281-LR-WI-A</li> <li>285-2-BSE-WI-B</li> <li>276-CRAWL-W2-A</li> <li>279-CRAWL-W2-A</li> <li>285-LR-W2-A</li> </ul>	, ) )	100		)	Tacon FG paper.		)		
12 * If left blank, Paracet will analyze all materials ide Comments: Ter paper on Relinquished By (Sign) Stable	y.K	atalysis ** glat Depot. glat Depot.	If left blank,		alyze all materials as individual samples (at additional cost) per EPA 6	Ву	Method of	op-B	0x
Relinquished Ry (Print) SCOTT WALLS Date/Time: 2130 / 8 Feb 2018	5Date/Ti	me Feb	9/18	8:2	Date/Time: FEB 12-18 1016 Date/Tim	rae:Fr	512	15	

OPARACEL		RUSTED	51	Paracel ID: 1806438		Chain of Custody (Lab Use Ouly) Nº 26462	
				AUA	1	Page 2 of 18	1
Client Name: GHD Lfd Contact Name: Scott Wallis. Address: 1225 Gardiners Rd. L Kingston, ON K7P ( Telephone: 613-389-9812.	063		Email Address	BD At, wallis Eghd com	□ Imm □ 4 Hc □ 8 Hc Dat	our 🗆 2 D	bay Day Day
	1	ASBES	STOS &	MOLD ANALYSIS	-		
Matrix: Air Bulk DTape Life	□Sw	/ab 🛛	Other	Regulatory Guideline: DON DQC D	JAB	SK Other:_	10
Analyses: Microscopic Mold Culturable M	old 🗆 Bad	cteria GRA	M DPCN	Asbestos DPLM Asbestos Chatfield Asbestos	DTE	M Asbestos	-
Paracel Order Number:			11100	Asbestos - Bu	ulk	ALL SALER	-
Seconds ID	Sampling Date	Air Volume (L)	Analysis Required	Identify Distinct Building Materials to Be Analy * see below	yzed Combine Identifi Materials? **see below		d Positive Stop?
Sample ID	00	(ei)	1				
2 283-1-K-F2A-A 3 285-1-K-F2B-A 4 279-1-K-F2C-A 5 279-1-K-F2C-A 6 279-1-K-F2C-B 7 281-2-BNOW-F2D-A 8 281-2-BNOW-F2D-A 8 281-2-BNOW-F2D-B	January-20			VET-Battleship Brown VET-Cream VET-Mach tile		NO NO NO NO	YES 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
9281-2-BMW-F2D-C 10 281-2-BSW-F2E-A 1 11 281-2-BSW-F2E-B	112			VFT-Grey Stone.		NO	Nes
12 281-2- BSW-FƏE-C * If left blank, Paracel will analyze all materials identified during Comments:				J lyze all materials as individual samples (at additional cost) per EPA	600/R -93	Method of Delivery:	0×
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LABURATURIES	/, 1 03		-			Page 3 of 18	}
Client Name: GHD Ltd. Contact Name: Scott Wallis			Project Referen	nce: 11140575-E5	🗆 Inum 🗆 4 Ho		ay
Address 1225 Gardiners Rd. Un Kingston, ON KTP 09	nit 104 3	_	PO #: TF Email Address SCO	in the second	Date	ur 🗆 3 D इ.स्टर् e Required:	
Telephone: (013-389-9812	1	ASBES		MOLD ANALYSIS			
Matrix: Air Bulk DTape Lif	-		Other	Regulatory Guideline: DON DQC		SK Other:_	
Analyses: EMicroscopic Mold ECulturable M	old 🗆 Bad	teria GRA	M DPCN	M Asbestos BPLM Asbestos Chatfield Asbesto		M Asbestos	-
Paracel Order Number:			mires)	Asbestos - I	Bulk	Combine Identified	-
A 10	Sampling Date	Air Volume (L)	Analysis Required	Identify Distinct Building Materials to Be Ana * see below	lyzed	Materials?	Positive Stop?
Sample ID		1407	1. N				
1 285-CRAWL-M4-A 2 277-CRAWL-M4-B	- 20			Tar seal on block		) Ves	) HES
3 276-0RAWL-M4-B	8		)				
* 281-2-BNW-W2B-A \$ 281-2-BNN-W2B-B	-from			Tar paper bands on FG pape	<u>c ·</u>	) 758	)VES
6 281-2-BNN-N2B-C 7 279-2-Bath-F3-A 8 281-2-Bath-F3-B	R			VSF-White/Blue pebbles.		) YES	) YES
* 285-2-Bath-F3-C 10 281-2-Bath-F3A-C 11 281-2-Bath-F3A-B	10			VSF- White mottled tan.		) YES.	) YES
12 281-2- Revun - F3A - A * If left blank. Paracel will analyze all materials identified during	analysis **	If left blank.	Paracel will an	alyze all materials as individual samples (at additional cost) per EP	A 600/R -93/	016	
Comments: Tar banding or	V		11442)			Method of Delivery: Drop BC	x
Scall 3	Mys So	Fra	ker	Harrison	fied By:	A	
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LADORATORIES		т. т. ала тт			Pa	ge 4 of 18	3
Client Name: GHD LHd. Contact Name: Scott Wallis Address: 1225 Gavediers Rel, Kingsten, ON K7P Telephone: 1, 5, 200 9810	Unit 104 063	-	Erruil Address	BD		naround Time 1 D 2 D 3 D to Reg	e: Day Day Day
Telephone: 613-389-9812		ASBES		MOLD ANALYSIS			
Matrix: Air Bulk Tape Analyses: Microscopic Mold DCultural	e Lift 🛛 🖾 Sw		Other	Regulatory Guideline: DON DQC D M Asbestos Chatfield Asbestos	AB SK		
Paracel Order Number:	Sampling	Air Volume	Analysis	Asbestos - Bul Identify Distinct Building Materials to Be Analyzi	lk ed Com	bine Identified Materials?	Positive
Sample ID	Date	(L)	Required	* see below		*see below	Stop?
1 283-1E-F3A 2 283-1E-F3-B 3 283-1-E-F3-C 4 276-1B-F3-A 5 276-1B-F3-B 6 276-1B-F3-C	)))))			VSF - White VSF- Brown		LES D D D D	)485
7 277-2-Beth-F3-A 8 277-2-Beth-F3-B 9 277-2-Beth-F3-C 10 279-1-LRSW-F2A-B 11 279-1-KSE-F2A-B	) 19			VSF-Brown pebbles. VFT-Tan with brown Fleck		UAS .	
12 285-1-UR-F2B-B * If left blank, Paracel will analyze all materials identified Comments:	during analyses *	f left blank,		alyze all materials as individual samples (at additional cost) per EPA 66 Received at Lab.	Method	of Delivery:	xx
Relinquished By (Print): SUACUS	Myssa Duertime: Feb	Fras 9/18	er 8:3	6 Date/Time: Fb 12.18 Date/Time	ne feb		

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ENDORATORIZEO ET.	ener ne i cha			I IS ST IT		Pag	c 5 of 18	5
Client Name: CUN 11			Project Refere	nce: 11140575-E5		Turn	around Time	:
Client Name: GHD Ltol.		-	Quote #:		🗆 Imm		010	
Address: 1225 Gardiners Rd. (	10:+104	4	PO #: -1	BD THAT A A A	D4Ho			(
Kingston, ON KTP	OG2		Court Address		08 Ho	our	DRep	
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	C	Air	Amaturale	Identify Distinct Building Materials to Be Analyz	zed	1000000000	ine Identified aterials?	Positive
Sample ID	Sampling Date	Volume (L)	Analysis Required	* see below		1.1.1	see below	Stop?
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1 22-2-BSW-WI-B 2 24-2-BNW-WI-C	20		1			$\square$	٥	
3 30-2-BSW-WI-B	102			OW JC			NO	W.S
1 32-2-BNE-WI-C	-						. 0	0
5 34-K-WI-A	4					1		
6 24-2-BNW-W2-B	3		1		_	1-		A D
7 32-2-BNW-W2-C	3			tar on FG paper	_	Se	e Rote.	VE
8 30-CRAWL-W2-D	g					-	0	
934-A-RI-A	1-1			0		$\left  \right\rangle$	NO	NE
10 39-A-RI-B	-	-		Roofing.		$\rightarrow$		118
11 34-A-RI-C	m		1			1	0	0
12		If heft bilants	Daracal will at	alyze all materials as individual samples (at additional cost) per EPA 6	500/R -93/	116		-
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LABORATORIES LTI		ELIABL	F			Nº	26464	
LABURATURIES CI	2 . T 10	LINDE			1	Pag	e 6 of 18	3
Client Name: GHD Ltd. Contact Name: Scatt Wallis Address: RZS Gardiners Rd, U	unit 104		Project Referen Quote #: PO #: -	nce: 11140575-E5	□ Imm □ 4 Ho □ 8 Ho	Turn nediate our	around Time	e: Day Day
Telephone: 613-389-9812	)G3		Email Address	att. wallis Eghd com	Da	e Requi	B-Kej	gular
615-361-191-	1	ASBES	STOS &	MOLD ANALYSIS				
Matrix: Air Bulk DTape Lif		ab E	Other	Regulatory Guideline: BON DQC I M Asbestos DPLM Asbestos DChatfield Asbestos		SK M Asbes		
Analyses: Microscopic Mold Culturable M		acha OKA		Asbestos - B				
Paracel Order Number:	Sampling	Air Volume	Analysis	Identify Distinct Building Materials to Be Analy		M	ine Identified laterials? see below	Positive Stop?
Sample ID	Date	(L)	Required	* see below		1		
122-CRAWL-HY-A	20			Tar on dook		1	VES.	THES
2 30-CRAWL-MY-B 3 34-CRAWL-W-MI-B	0			Tot on oscore		)	D	10
4 22-2-Bath-F3-A	0		Ń			1		
5 22-2- Bath-F3-B	50			NSF-Brozon		1)	105	NES
6 22-2- Bath-13-C	S		)	na napu		1	0	
7 24-2- Bath -F3-A )	3	-	1	1110		$\left  \right\rangle$	and the second second	Mes
\$ 24-2- Path-F3-B	18	-	$\left  \right\rangle$	NSF-ton mottled Brown		+)-	VPS_	The
9 32-2-PothSouth-F3AC-C	r)		1			K	0	0
10 30-2-Bath-F3-A	1	-		NSF-Criam	-	1	NES	TYPE
11 30-2- Bath-F3-B	00			NSF-Criam		1		10
12 30-2 - Bosth - F3-C * If left blank, Paracel will analyze all materials identified during	analusis #1	If left blank.	Paracel will and	lyze all materials as individual samples (at additional cost) per EPA	600/R -93	116	100	
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Chain of Custody (Asbestos) - Rev. 06 Nov. 2016								

GPARACEL		RUSTED	SIV	Paracel ID: 1806438		Chain of Custody (Lab Use Only) Nº 26465 Page Z of 18	
Client Name: GHD Ltd. Contact Name: Scott Wallis Address: 1225 Glardiners Rd. U Kengston, ON KTP OG Telephone: 613-389-9812	à3		Email Address	BD H. wallis Eghd.com	□ Imn □ 4 Ho □ 8 Ho Da	Turnaround Time mediate I D our I 2 D	n Day Day Day
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Paracel Order Number: Sample ID	Sampling Date	Air Volume (L)	Analysis Required	Asbestos - B Identify Distinct Building Materials to Be Analy * see below		Combine Identified Materials? **see below	Positive Stop?
$\frac{1}{32-2-BathSouth-F3B-A}{232-2-BathSouth-F3B-B}{332-2-BathSouth-F3B-C}{434-2-Bath-F1-A}{534-2-Bath-F1-B}{634-2-Bath-F1-B}{634-2-Bath-F1-C}{722-1-E-F3B-A}{822-1-E-F3B-A}{822-1-E-F3B-C}{922-F3B-F3}{922-F3B-C}{922-F3B-F3}{922-F3B-F3}{922-F3B-F3}{922-F3B-F3}{922-F3B-F3}{922-F3B-F3}{922-F3B-F3}{922-F3B-F3}{922-F3B-F3}{922-F3B-F3}{922-F3B-F3}{922-F3B-F3}{922-F3B-F3}{922-F3B-F3}{922-F3$	SIQC-Bronner-18 analysis	If left blank,	Paracel will ana	NSF - white with brown d NSF - white blue peobles NSF - Mock tile.			
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LABORATORIES LTI	). j ni					Page	8 of 12	3
Client Name: GHD Contact Name: SCOTT WALCUS Address: 104-1225GARDINERS KINGSTON ON Telephone: 6123899812	SD		Project Referen Quote #: PO #: Email Address	TBD	□ Imm □ 4 He □ 8 He Dat	Turna ediate our	around Time 1 D 2 D 3 D X Reg	e: Day Day Day
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1 22-1-K-FZD-A 2 24-1-LR-EZC-A				VET-BROWN		IN	0	14
3 30-1-K-EZC-C						1	0	10
4 22-LR-F2C-C			1			N		Yo
5 24-1-UR-FZE-A	)			VFT-olive	-/	11	0	1 0
6 30-1-E-FZF-B	1			/		1	0	P
1 30-2 -BATH-FZD-A			-	VFT-mottled light/decle	10630	ΠY	0	1Vo
\$ 30-2-BATH -FZD-B		-	-	J VFI-MONTE IJBYOSK		V	0 /	
9 30-2-BATH-FZD-C 10 32-NEEntry-FZE-A					/	1		J.P
10 32-NEEntry-FLE-A	+		100	VET-De-lebrown white struck	0	NN		YU
11 32-NEENTRY-FZE-G	1/					2		// 0
12 32-NE5htry-FZE-C * If left blank, Paracel will analyze all materials identified during	analysis **	If left blank.	Paracel will ana	lyze all materials as individual samples (at additional cost) per EP	A 600/R -93	/116		and the
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LADURATURIES LT	<b>D</b> . 1 M	LINDE				Page	9 of 18	3
Client Name: GHD Contact Name: SCOTT WALLIS		-	Project Referen Quote #: PO #:	11100 10 01	□ Imm □ 4 Ho	Turna) nediate our	round Time 1 D 2 D	i: Jay Jay
Address: 104-1225 GARDINERS KIDESTON, ON Telephone:	10	. a	Email Address:	TBD SCOTT. WALLIS @ GHD. COM	Da B	our te Require	□ 3 D KReg d:	
		ASBES	STOS &	MOLD ANALYSIS				
Matrix: 🗆 Air 🛛 Bulk 🛛 Tape Lit			Other	Regulatory Guideline: ON DQC I		□SK		_
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Paracel Order Number:			111100	Asbestos - B	ulk		and and	
	Sampling	Air Volume	Analysis	Identify Distinct Building Materials to Be Analy * see below	zed	Mat	e Identified terials? e below ,	Positive Stop?
Sample ID	Date	(L)	Required	- see below	1	se		
1 22-K-FZE-A 2 24-K-FZB-A 3 30-K-FZB-B				) VFT-ten brown streaks.	_	) N		
4 32-1-URSE-FZB-A 5 32-1-URSE-FZB-B 6 ZZ-1-E -FZA-D				) VFT-brown streeked derkk	noun	N		
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Client Name: GHD Contact Name: SCOTT WALLIS Address: 104-1225 GARDINERS KINGSTON, ON Telephone: 6133899812			Project Referen Quote #: PO #: Email Address	TBD SCOTT. WALLIS E GHD. COM	□ Imm □ 4 Ho □ 8 Ho Dat	ur 🗆 2 D	Day Day Day
		ASBES	TOS &	MOLD ANALYSIS			4.1.5
Matrix: Air Bulk DTape Lit	and the second se	dill.	Other	Acgulatory Gulatante	AB	SK Other:_	157
Analyses: Microscopic Mold Culturable N	fold Bad	teria GRA	M DPCM	A Asbestos XPLM Asbestos Chatfield Asbesto		A ASDESIOS	_
Paracel Order Number:	Sampling	Air Volume	Analysis Required	Asbestos - E Identify Distinct Building Materials to Be Anal * see below		Combine Identified Materials? **see below	Positive Stop?
Sample ID	Date	(L)	Kequireu	266 0000	7		1.9
1 32-1-URSE-FZD-A 2 32-1-URSE-FZD-G 3 32-1+URSE-FZD-C 4 North MECH-MI-A 5 NORTH MECH-MI-B 6 NORTH MECH-MI-C 7 8 9 10 11 12	8102			leveling eps ) sweat paper ) lyze all materials as individual samples (at additional cost) per EP	) )		
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Client Name: GHD Contact Name: SCOTT WALLIS Address: 104-1225 GARDINERS KINGSTON, ON Telephone: 613 389 9812	52	. 0	Project Referen Quote #: PO #: Email Address	TBD	Imme 4 Hou 8 Hou Date	Turnaround Time diate	n: Pay Pay Pay
613 301 1010		ASBES	STOS &	MOLD ANALYSIS			
Matrix: Air 🕅 Bulk 🗆 Tape Lif	t □Sw		Other		1.000	SK Other:_ Asbestos	
Analyses: Microscopic Mold Culturable M	told LBa	I GRA		Asbestos - Bu		A ME O CL	
Paracel Order Number: Sample ID	Sampling	Air Volume (L)	Analysis Required	Identify Distinct Building Materials to Be Analyz	1	Combine Identified Materials? **see below	Positive Stop?
1 811-ZBNW-RI-A 2 811-ZBNW-RI-A 3 811-ZBNW-RI-S 3 811-ZBNW-RI-C 4 811-1+1-CI-A 5 811-I-1+-CI-B 6 811-Z-BNW-UI-C 9 821-Z-BNW-WI-C 9 821-Z-BSE-WI-C	S JAN 8/02			coting Material Lo as per scott AP ceiling texture dwjc			
10 817-1-LR-WI-A 11 289-2-BSW-WI-C					600/R93/1		
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Paracel Order Number:			In the second	Asbestos - B	ulk		_
	Sampling	Air Volume	Analysis Required	Identify Distinct Building Materials to Be Anal * see below	yzed	Combine Identified Materials? **see below	Positive Stop?
Sample ID	Date	(L)	Requireu	Section 1			
1813-2-BATH-F3-B	00			VSF-white pink pebble	0	) Y o	X
2 829 - Z - BATH - F3 - A 3 829 - Z - BATH - F3 - B	-			121-1			
4 817-2-BATH-F3A-B	3						NV
5 823-2-BATH-F3-B	12			VSF-cream		17 0	1/0
6 823- Z-BATH-F3-C	8		-		1	K . a .	1.9
7 819-2-BATH-F3-A 8 819-2-BATH-F3-B				VSF- brown publies		)y 🛛	170
109-2-BATH +3-C	M			,	- (		
10 827-2-BATH-F3A-A		-		1155		VO	140
11 289-2-BATH-F3-A			-	VSF-mock 9+9 state.	-		10
12 89 - Z - BATH - F3-B / * If left blank, Paracel will analyze all materials identified durin	e analysis **	tf left blank.	Paracel will and	lyze all materials as individual samples (at additional cost) per EP/	600/R -93/	116	-1
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Analyses: Microscopic Mold Culturable M		teria GRA		Asbestos Abestos Chatfield Asbestos		M Asbestos	30-1-2
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Sample ID	Date	(L)	Required	See Delow	,		
1 827-2-BATH-F3B-A 2 827-2-BATH-F3B-B	00			YSF-wood		)	Y
3 827-2-BATH-F3B-C	ō				-		1/0
4 821-2-BATH-F3B-A	N						10
5 821-2-BATH F3B-B	2			NSF-mock clay, white growt	-	)7 0	1/0
6 821-2-BATH -F3B-C	A			/	1		0
7 821-2-BATH-F3A-A	17			VSF-mock clay, grey grout		V D	Yo
8 821-2-BATH-F3A-B 9 821-2-BATH-F3A-C	M		1	10. Mase 31.3. 3.0.			10
10 819-CRAUL-MY-A			>	S			J.F
11 823-CRAWL-M4-A	)			)ter an block	-	)	110
12 289-CRAWL-MY-B	1		D. J. M.	/ lyze all materials as individual samples (at additional cost) per EPA 6	00/R -93/	r	8 -
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Client Name: CHD Contact Name: SCOTT WALLIS Address: 104-1225 CARDINGRS TO KINGSTON ON Telephone: 613 389 9812			Quote #: PO #: Email Address	TSD SCOTT. WALLISE GHDICOM	□ Imm □ 4 Ho □ 8 Ho Da	Turnaround Time nediate	e: Day Day Day
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1 817-1-LR-WZ-A 2 823-CRAWL-WZ-D 3 829-2-BSE-WZ-B 4 813-1-H-F6-B 5 813-1-H-F6-B 6 822-1-H-F6-C	N 2018			tarpaper on Rbergless. ) Vinyl star trued brown		N 0 V 0 V 0	
7 289-1-LR-FZA-B 8 289-1-LR-FZA-C 9 821-1-K-FZC-B 10 823-1-UR-FZB-C 11 827-1-E-FZA-A	31 13			VFT-brown white streaks VFT-grey brown Pleeks			
12     827-1-K-FZA-B       * If left blank, Paracel will analyze all materials identified during       Comments:       >Tonly + cot poper, not Reference       Relinquished By (Sign):       School	e analysis	If left blank,	Paracel will an	alyze all materials as individual samples (at additional cost) per EPA Received at Lah	ied By	Diop-E	30x
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10 $8/9 - 1 - K - FZC - B$ 11 $8/9 - 1 - K - FZC - D$ 12 $8/9 - 1 - K - FZC - E$ * If left blank, Paracel will analyze all materials identified during	ganalysis **	f left blank,	Paracel will ana	DAFT-OWE Brown with white stre			Y o
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1 811-2-BNW-FZB-A 2 811-2-BSE-FZB-B 3 811-2-BSE-FZB-C 4 813-1-K-FZB-B 5 813-1-K-FZB-C 6 289-1-URNE-FZB-C 7 821-1-K-FZB-B 8 821-1-K-FZB-C 9 821-1-K-FZB-D 10 SOUTH MECH-MI-A 11 SOUTH MECH-MI-B 12 SOUTH MECH-MI-C	31-1212 2018			VFT-beige mottled whitet bo VFT-beige mottled whitet bo VFT-beiget white, grey boek Sweat paper	4		
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ASBESTOS & MOLD ANALYSIS         Matrix:       Date       Other       Regulatory Guideline:       On       QC       DA       SK       Other:         Analyses:       Microscopic Mold       Calurable Mold       Bacteria GRAM       IPCM Asbestos       Calurable Asbestos       Item Asbestos<	Contact Name: SEGTT WALLIS Address: 104-1225 GARDINERS KINGSTON ON	60	. 4	Quote #: PO #:	TSD	□ 4 Ho □ 8 Ho	Turnaround Time mediate 1 D pur 2 D pur 3 D pur 3 D Reg	ay ay ay
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Air       Air       Air       Ashestos - Bulk         Sample ID       Date       Air       Identify Distinct Building Materials to Be Analyzed       Materials?       Positive         1       8:7E - WS - A       Image: Combine Identified       Image: Combine Identified       Materials?       Positive         3       8:7E - WS - A       Image: Combine Identified       Image: Combine Identified       Image: Combine Identified         3       8:7E - WS - A       Image: Combine Identified       Image: Combine Identified       Image: Combine Identified         3       8:7E - WS - A       Image: Composition Identified       Image: Composition Identified       Image: Composition Identified         4       2:8(7E - WS - A       Image: Composition Identified       Image: Composition Identified       Image: Composition Identified         4       2:8(7E - WS - A       Image: Composition Identified       Image: Composition Identified       Image: Composition Identified         5       8:11 - M3: Composition Identified       Image: Composition Identified       Image: Composition Identified       Image: Composition Identified         9       Image: Composition Identified         10       Image: Composition Identified <td>A DESCRIPTION AND A D</td> <td></td> <td>teria GRA</td> <td>M DPCM</td> <td></td> <td></td> <td>M Asbestos</td> <td></td>	A DESCRIPTION AND A D		teria GRA	M DPCM			M Asbestos	
Air Sampling     Air Volume (L)     Hentify Distinct Building Materials to Be Analyzed     Combine Identified Materials?       1     817E - WS - A     Image: Second State Sta					Asbestos - Bu	ılk	and the state of the	
Simple ID       Dirk       (b)       Image: contract of the second of	Courte ID		Volume	10000000000000	to the construction of the second state of the second state of the	zed	Materials?	Positive Stop?
2       8/7E - US - B       M m       Concrete parget       M m         3       82SE - US - C       M m       Image: Concrete parget		Date	(15)	T				NP
3       829E-USF-C       Image: Constraint of the black, Paracel will analyze all materials as individual samples (at additional cost) per EPA 600/R-93/116         4       289-M3-A       Image: Constraint of the black, Paracel will analyze all materials as individual samples (at additional cost) per EPA 600/R-93/116         6       8       Image: Constraint of the black, Paracel will analyze all materials as individual samples (at additional cost) per EPA 600/R-93/116         9       Image: Constraint of the black, Paracel will analyze all materials as individual samples (at additional cost) per EPA 600/R-93/116         11       Image: Constraint of the black, Paracel will analyze all materials as individual samples (at additional cost) per EPA 600/R-93/116         Comments:       Image: Constraint of the black, Paracel will analyze all materials as individual samples (at additional cost) per EPA 600/R-93/116		1			concrete parce.		1	11
4       289-M3-A       30       9         6       821 - M3-C       0       0         7       0       0       0         8       0       0       0         9       0       0       0         10       0       0       0         11       0       0       0         12       0       0       0         14       0       0       0         15       0       0       0         10       0       0       0         11       0       0       0         12       0       0       0         14       0       0       0         15       0       0       0         16       0       0       0         17       0       0       0         18       0       0       0         19       0       0       0         10       0       0       0         12       0       0       0         10       0       0       0         10       0       0       0 <td></td> <td>Ma</td> <td></td> <td>/</td> <td></td> <td></td> <td>/</td> <td></td>		Ma		/			/	
6     8ZI - M3-C     1     1       7     1     1     1       8     1     1     1       9     1     1     1       10     1     1     1       11     1     1     1       12     1     1     1		20					1	1
6     821 - M3-C     1       7     1       8     1       9     1       10     1       11     1       12     1       * H left blank, Paracel will analyze all materials identified during analysis     ** H left blank, Paracel will analyze all materials as individual samples (at additional cost) per EPA 600/R. #3/116	5 811 - M3-B	EN			exterior paulking	-	1 X	11
8       Image: Comments:       Image: Comment	6 821-M3-C /	1)			/	-	1	
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				AUA		Page B of 18	
Client Name: CHD Contact Name: SCOTT WALLIS Address: 104-1225 GARDINGO KINGSTON ON Telephone: 6133899812	05/25	. 0	Project Referen Quote #: PO #: Email Address	TOD	□ Imme □ 4 Hou □ 8 Hou Date	r 🗆 2 D	Day Day Day
		ASBES	STOS &	MOLD ANALYSIS			
Matrix: Air Bulk Tape Lif		Contraction in the second	Other	Regulatory Guideline: WON DQC D	JAB	SK Other:_	
Analyses: Microscopic Mold Culturable M	All Property lies and the second seco	cteria GRA	M DPCM	Asbestos Abestos Chatfield Asbestos			1
Paracel Order Number:				Asbestos - Bu	ılk	And the second second	
Sample ID	Sampling Date	Air Volume (L)	Analysis Required	Identify Distinct Building Materials to Be Analy * see below	zed	Combine Identified Materials? **see below	Positive Stop?
1 34E-W5-A	-0415						
2 34E-WS-B	0			conc perge.			12
3 246-65-6	10	-	-				
4 32-2-BNE-M3-A	1			) exterior caulking		Vo	10
5 24E-M3-B 6 32E-M3-C	11		1916				1/0
1 279E-WS-A	3		4		4		
8 279 E -WS-B	X			) cane parge			WA-
1283E-WS-C	7						
10 281-M3-C 11 279E-M3-B		-		exterior caulking			X
12 283-M3-A				3		// □	10
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Comments:						Drap-B	æ
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Relinquished By (Print): SUACUS Date/Time: 2030/8E620(8 Date/Ti	F-1.	9/18	20:20	) Date/Time PRb 12-15 Date/Ti	in A	2012-0	



Client PO: TBD

Order #: 1806438

Report Date: 16-Feb-2018

Order Date: 9-Feb-2018

Project Description: 11140575-E5

#### Asbestos, PLM Visual Estimation \*\*MDL - 0.5%\*\*

Paracel I.D.	Sample Date	Layers Analyzed	Colour	Description	Asbestos Detected:	Material Identification	% Content
1806438-DP	31-Jan-18	sample homogenized	Grey	Concrete	No	Client ID: 279E-W5-A	
						Non-Fibers	100
1806438-DQ	31-Jan-18	sample homogenized	Grey	Concrete	No	Client ID: 279E-W5-B	
						Non-Fibers	100
1806438-DR	31-Jan-18	sample homogenized	Grey	Concrete	No	Client ID: 283E-W5-C	
						Non-Fibers	100
1806438-DS	31-Jan-18	sample homogenized	White	Caulking	No	Client ID: 281-M3-C	
						Non-Fibers	100
1806438-DT	31-Jan-18	sample homogenized	White	Caulking	No	Client ID: 279E-M3-B	
						Non-Fibers	100
1806438-DU	31-Jan-18	sample homogenized	White	Caulking	No	Client ID: 283-M3-A	
						Non-Fibers	100

\* MMVF: Man Made Vitreous Fibers: Fiberglass, Mineral Wool, Rockwool, Glasswool

\*\* Analytes in bold indicate asbestos mineral content.

#### **Analysis Summary Table**

Analysis	Method Reference/Description	Lab Location	NVLAP Lab Code *	Analysis Date
Asbestos, PLM Visual Estimation	by EPA 600/R-93/116	1 - Mississauga	200863-0	13-Feb-18

\* Reference to the NVLAP term does not permit the user of this report to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

#### **Qualifier Notes**

Sample Qualifiers :

ASLYR: Layers were noted for this sample, however, the entire sample was homogenized per client request.

AS-PRE: Due to the difficult nature of the bulk sample (interfering fibers/binders), additional NOB preparation was required prior to analysis

#### Work Order Revisions / Comments

None

GPARA(			RUSTED	SIVE	Paracel ID: 1806438			n of Custody ab Use Only) 21385	
					113 11 11		Page	of 18	
Client Name: Scott Wallis Contact Name: GHD Ltd. Address: 1225 Gardiners Ra Kingston, ON K Tolephone: 613-389-9812	d, lini	3		Email Address Scott	BD . Walliseghd com	□ Imme □ 4 Hot □ 8 Hot Date	ediate ur	around Time 1 D 2 D 3 D Keg ed:	ay ay ay
010 001 100-		ł	ASBES	TOS &	MOLD ANALYSIS		_		
Matrix: Air Bulk [	Tape Lif			Other	Regulatory Guideline: DON DQC D	-12-14-5-7-13	ALCONTRACTOR	Other:_	
Analyses: Microscopic Mold	Culturable N	fold 🗆 Bac	teria GRA	M DPC	M Asbestos DepLM Asbestos Chatfield Asbestos		1 Asbest	05	
Paracel Order Number: 1806438 Sample ID		Sampling	Air Volume (L)	Analysis Required	Asbestos - Bu Identify Distinct Building Materials to Be Analyz * see below		М	ne Identified aterials? see below	Positive Stop?
1 38- RI-A 2 38- RI-B 3 40- RI-A 4 38-LR-WI-A 5 40-1K-WI-B		Tannary			Roofing Material DWJC				
<ul> <li>277-K-WI-C</li> <li>281-LR-WI-A</li> <li>285-2-BSE-WI-A</li> <li>276-CRAWL-W2-A</li> <li>279-CRAWL-W2-A</li> <li>285-LR-W2-A</li> </ul>	3)	3		)	Tar on FG paper.		))		
12 * If left blank, Paracel will analyze all materials in Comments: Ter paper on Relinquished By (Sign): Stable	ly.K	aralysis **	If left blank,		alyze all materials as individual samples (at additional cost) per EPA 6 Received at Lab	Ву	Method of	op-B	<u>NC</u>
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				AUA	1	Page 2 of 18	)
Client Name: GHD Lfd Contact Name: Scott Wallis. Address: 1225 Gardiners Rd. L Kingston, ON K7P ( Telephone: 613-389-9812.	363		Email Address	BD At, wallis Eghd com	□ Imm □ 4 Hc □ 8 Hc Dat	our 🗆 2 D	ay Jay Jay
	1	ASBES	STOS &	MOLD ANALYSIS	-		
Matrix: Air Bulk DTape Life	l □Sw	/ab 🛛	Other	Regulatory Guideline: DON DQC D	JAB	SK Other:_	10
Analyses: Microscopic Mold Culturable M	lold 🗆 Bad	cteria GRA	M DPCM	Asbestos DPLM Asbestos Chatfield Asbestos	DTE	M Asbestos	-
Paracel Order Number:	1			Asbestos - Bu	ulk	All Samet	-
Seconds ID	Sampling Date	Air Volume (L)	Analysis Required	Identify Distinct Building Materials to Be Analy * see below	zed	Combine Identified Materials? **see below	Positive Stop?
Sample ID	00	(ei)	1				
2 283-1-K-F2A-A 3 285-1-K-F2B-A 4 279-1-K-F2C-A 5 279-1-K-F2C-A 6 279-1-K-F2C-B 7 281-2-BNOW-F2D-A 8 281-2-BNOW-F2D-A 8 281-2-BNOW-F2D-B	January-20			VET-Battleship Brown VET-Cream VET-Mach tile		NO NO NO NO	YES YES
9281-2-BMW-F2D-C 10 281-2-BSW-F2E-A 1 11 281-2-BSW-F2E-B	1-12			VFT-Grey Stone.		NO	NES
12 281-2-BSW-FƏE-C * If left blank, Paracel will analyze all materials identified during Comments:				J lyze all materials as individual samples ( <b>at additional cost</b> ) per EPA		Method of Delivery:	0×
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Chient Name: GHD Ltd. Contact Name: Scott Wallis			Project Referen Quote #:	nce: 11140575-E5	🗆 Inum 🗆 4 Ho		ay
Address 1225 Gardiners Rd. Un Kingston, ON KTP 09	nit 104 3	1	PO #: TF Email Address SCO	information and the second	Date	ur 🗆 3 D D-Reg e Required:	
Telephone: (013-389-9812		ASBES		MOLD ANALYSIS			
Matrix: DAir Bulk DTape Lif	-		Other	Regulatory Guideline: DON DQC		SK Other:_	_
Analyses: IMicroscopic Mold ICulturable M		teria GRA	M DPCM	M Asbestos PLM Asbestos Chatfield Asbesto	os DTEN	A Asbestos	_
Paracel Order Number:			IT NOT	Asbestos - I	Bulk		-
	Sampling Date	Air Volume (L)	Analysis Required	Identify Distinct Building Materials to Be Ana * see below	lyzed	Combine Identified Materials? **see below	Positive Stop?
Sample ID		(14)	1. A				
1 285-CRAWL-M4-A 2 277-CRAWL-M4-B	- 20			Tar seal on block		) Ves	) HES
3 276-0RAWL-M4-B	8		)				
* 281-2-BNW-W2B-A \$ 281-2-BNN-W2B-B	-Fro		)	Tar paper bands on FG pape	<i>c</i> ·	) 758	)VES
6 281-2-BNN-W2B-C 7 279-2-Bath-F3-A 8 281-2-Bath-F3-B	R			VSF-White/Blue pebbles.		) VES	) YES
· 285-2-Bath-F3-C · 281-2-Bath-F3A-C · 281-2-Bath-F3A-C	10			VSF- White mottled tan.		) VES.	) YES
12 281-2- Basth-F3A-A * If left blank, Paracel will analyze all materials identified during	analysis **	If left blank,	Paracel will an	alyze all materials as individual samples (at additional cost) per EP	A 600/R -93/	116	
Comments: Tar banding or	V		a na			Method of Delivery: Drop BC	x
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LADORATORIES	<b>1</b>				Pag	e 4 of 18	3
Clieot Name: GHD LHd. Contact Name: Scott Wallis Address: 1225 Gardiers Rd, U Kingsten, ON KTPO Telephone: 15 200 9812	n it 104 63	-	Erruil Address	BD		naround Time 1 D 2 D 3 D D Reg	e: Day Day Day
Telephone: 613-389-9812		ASBES		MOLD ANALYSIS			
Matrix: Air Bulk Tape I Analyses: Microscopic Mold Culturable	ift 🛛 Sw		Other	Regulatory Guideline: DON DQC D M Asbestos Chatfield Asbestos	AB SK		
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1 283-1E-F3A 2 283-1E-F3-B 3 283-1E-F3-B 4 276-1B-F3-A 5 276-1B-F3-B	ary - 2018			NSF - White NSF- Brown		ILES I ILEOS I	)485
<ul> <li>276-18-F3-C</li> <li>277-2-Beth-F3-A</li> <li>277-2-Beth-F3-A</li> <li>277-2-Beth-F3-C</li> <li>277-2-Reth-F3-C</li> <li>279-1-LRSW-F2A-B</li> </ul>	) 1-			VSF-Brown pebbles.			) 46
11 279-1-KSE-FZA-B 12 285-1-UR-FZB-B * If left blank, Parscel will analyze all materials identified dur Comments:	) @	* If left blank.		VFT-Tan with brown Fleck alyze all materials as individual samples (at additional cost) per EPA 60	00/R -93/116	of Delivery:	D HEL
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Client Name: CUN 11			Project Refere	nce: 11140575-E5		Turn	around Time	e:
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Kingston, ON KTP	0G2		Court Address		08 Ho	our	DRep	(a) (*)
	005		50	ott. Wallis Eghd com	Dat	te Requir		Porter
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				MOLD ANALYSIS	1 A D	□sk	Other:	
Matrix: Air Bulk DTape Li			Other	and gammer (	JAB			-
Analyses: Microscopic Mold Culturable M	Aold Ba	cteria GRA	M DPC	M Asbestos DPLM Asbestos Chatfield Asbestos		M Asbes	los	-
Paracel Order Number:		11935-5	loc itery	Asbestos - Bu	ılk	0.1		-
	0 1	Air	Amaturale	Identify Distinct Building Materials to Be Analyz	zed	1.500 55575	ine Identified aterials?	Positive
Comple ID	- Sampling Date	Volume (L)	Analysis Required	* see below			see below	Stop?
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1 22-2-BSW-WI-B 2 24-2-BNW-WI-C	20		1			$\square$	٥	
3 30-2-RSW-WI-B	10			OW JC			NO	W.
1 32-2-BNE-WI-C	1 -				_		. 0	0
5 34-K-WI-A	4					1	۵	10
6 24-2-BNW-W2-B	3		1		_	1		A D
7 32-2-BNW-W2-C	3			tar on FG paper		150	e Rote.	1 VE
8 30-CRAWL-W2-D	2 V					2	0	
934-A-RI-A	1-1	-		-		$\lambda$	NO	NE
10 39-A-BI-B	-	-		Roofing.	-		0	1)7
11 34-A-RI-C	m		1	V O		1	0	10
12				alyze all materials as individual samples (at additional cost) per EPA 6	00. 90.01	116	tief	
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615-361 191-	1	ASBES	STOS &	MOLD ANALYSIS				
Matrix: Air Bulk DTape Lif		200	Other	Regulatory Guideline: DON DQC D M Asbestos DPLM Asbestos DChatfield Asbestos		SK A shes		10
Analyses: Microscopic Mold Culturable N	fold Bad	cteria GRA		Asbestos EPLM Asbestos EChatheid Asbestos - B		1 (131/60	itos	-
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Sample ID	Date	(L)	Required	* see below	_	8.9	see below	Stop?
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2 30-CRAWL-MY-B	0			lar on acous		1	0	10
3 34-CRAWL-W-MI-B	A					Ń		
4 22-2-Bath-F3-A	5			NSF-BROWDA	1	1/	es	下的
\$ 22-2- Bath-F3-B	8							) 0
1242 0 - 11 52 A	3		1			1		
824-2- Roth-13-B	.3			NSF-tan mottled Brown			VPS	MES
932-2-BathSouth-F3AC-C	TH.							10
10 30-2- Bath - F3-A			1			1		) D
11 30-2-Bath-F3-B	0			NSF-Criam	_		Ves	MP
12 30-2- Rath-F3-C	1000					1	u	1/4
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Client Name: GHD Ltd. Contact Name: Scott Wallis Address: 1225 Gardiners Rd. U Jungston, ON KTP OC Telephone: 613-389-9812	à3		Email Address	BD H. wallis Eghd.com	□ Imn □ 4 Ho □ 8 Ho Da	Turnaround Time nediate I D our I 2 D	e: Day Day Day
				Regulatory Guideline: DON DQC	JAB	SK Other:	10.00
Matrix: DAir DBulk DTape Lif	and the second second		Other	Regulatory Guideline: DON DQC D M Asbestos DPLM Asbestos DChatfield Asbestos		Contraction of the second second	00
Analyses: Microscopic Mold Culturable M	loid 🗆 Bad	teria GRA	IM LIPCA			n rananya	
Paracel Order Number: Sample ID	Sampling	Air Volume (L)	Analysis Required	Asbestos - B Identify Distinct Building Materials to Be Analy * see below		Combine Identified Materials? **see below	Positive Stop?
1 32-2-BathSouth-F3B-A 2 32-2-BathSouth-F3B-A 3 32-2-BathSouth-F3B-C 4 34-2-BathSouth-F3B-C 5 34-2-Bath-F1-A 5 34-2-Bath-F1-B 6 34-2-Bath-F1-C 7 22-1-E-F3B-A 8 22-1-E-F3B-A 9 22-1-E-F3B-C 10 11 12 * If left blank, Paracel will analyze all materials identified during Comments:	SIQC-Bronner-18 analysis	If left blank,	Paracel will ana	NSF - white with brown d NSF - white blue peobles NSF - Mock tile.			
	yan Depor YSSA J	-7000 9/	Y   8 8:	Received at Lah: Verifie 20 Date/Time: Feb 12 -18 Date/T		100p-13 12-18	<u></u>

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GPARACEL		SPONS				N⁰	26466	
LABORATORIES LTI	). j ni					Page	8 of 12	3
Client Name: GHD Contact Name: SCOTT WALCUS Address: 104-1225GARDINERS KINGSTON ON Telephone: 6123899812	SD		Project Referen Quote #: PO #: Email Address	TBD	□ Imm □ 4 He □ 8 He Dat	Turna ediate our	around Time 1 D 2 D 3 D X Reg	e: Day Day Day
Telephone: 613 389 9812		ASRES	TOS &	MOLD ANALYSIS			1.25	
Matrix: 🛛 Air 🛛 Bulk 🖾 Tape Lif	t 🗆 Sw	1/1	Other	Regulatory Guideline: ON QC Asbestos PLM Asbestos Chatfield Asbesto	AB	SK M Asbest	Other:_	0.0
Analyses: Microscopic Mold Culturable M	Iold DBa	ciena OKA	M LIFCA	Asbestos - 1				
Paracel Order Number:	Sampling	Air Volume	Analysis	Identify Distinct Building Materials to Be Ana * see below		М	ne Identified aterials? see below	Positiv Stop?
Sample ID	Date	(L)	Required	See Delaw				
1 22-1-K-FZD-A 2 24-1-LR-EZC-A				VET-BROWN		IN	0	14
3 30-1-K-EZC-C						1	0	10
4 22-LR-F2C-C			1			N		Yo
5 24-1-UR-FZE-A	)			VFT-olive	-/	11	0	1 0
6 30-1-E-FZF-B	1			/		1	0	P
1 30-2 -BATH-FZD-A			-	VFT-mottled light/decle	10630	ΠY	0	1Vo
\$ 30-2-BATH -FZD-B		-	-	J VFI-MONTE IJBYOSK		V	0 /	
9 30-2-BATH-FZD-C 10 32-NEEntry-FZE-A					1	1		J.P
10 32-NEEntry-FLE-A	+		100	VET-De-lebrown white struck	0	NN		YU
11 32-NEENTRY-FZE-G	1/					2		// 0
12 32-NE5htry-FZE-C * If left blank, Paracel will analyze all materials identified during	analysis **	If left blank.	Paracel will ana	lyze all materials as individual samples (at additional cost) per EP	A 600/R -93	/116		and the
Comments:				Sales Sales La Contra Astron		Method o	Dop-	Ba
Jer	Mysse	Fro	sey		fied By:	-	<0	_
Relinquished By (Print): SUACUS Date/Time: 2/30/8 E6 2018 Date/T	Fal	0/10	0.2	Date/Time: Feb 12-18 Date	Time:	AV.	1248	

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C PARACEI		SPON: ELIABL	SIV F			Nº	26467	
LADURATURIES LT	<b>D</b> . 1 M	LINDE				Page	9 of 18	3
Client Name: GHD Contact Name: SCOTT WALLIS		-	Project Referen Quote #: PO #:	11100 10 01	□ Imm □ 4 Ho	Turna) nediate our	round Time 1 D 2 D	i: Jay Jay
Address: 104-1225 GARDINERS KIDESTON, ON Telephone:	10	. a	Email Address:	TBD SCOTT. WALLIS @ GHD. COM	Da B	our te Require	□ 3 D KReg d:	
		ASBES	STOS &	MOLD ANALYSIS				
Matrix: 🗆 Air 🛛 Bulk 🛛 Tape Lit			Other	Regulatory Guideline: ON DQC I		□SK		_
Analyses: Microscopic Mold Culturable N		teria GRA	M DPCN	Asbestos Abestos Chatfield Asbestos	TE	M Asbesto	S	
Paracel Order Number:			in the second	Asbestos - B	ulk		and and	
	- Sampling	Air Volume	Analysis	Identify Distinct Building Materials to Be Analy * see below	zed	Mat	e Identified terials? e below ,	Positive Stop?
Sample ID	Date	(L)	Required	- see below	1	se		
1 22-K-FZE-A 2 24-K-FZB-A 3 30-K-FZB-B				) VFT-ten brown streaks.	_	) N		
4 32-1-URSE-FZB-A 5 32-1-URSE-FZB-B 6 ZZ-1-E -FZA-D				) VFT-brown streeked derkk	noun	N		
1 22-K-FZA-C 8 24-1-LR-FZA C 9 34- UK -FZ-B				VFT-tan mottled brown + who	ŧ	N		Yo
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* If left blank, Paracel will analyze all materials identified during Comments:				yze all materials as individual samples (at additional cost) per EPA		Method of I	ivery:	cx
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Client Name: GHD Contact Name: SCOTT WALLIS Address: 104-1225 GARDINERS KINGSTON, ON Telephone: 6133899812			Project Referen Quote #: PO #: Email Address	TBD SCOTT. WALLIS E GHD. COM	□ Imm □ 4 Ho □ 8 Ho Dat	ur 🗆 2 D	Day Day Day
		ASBES	TOS &	MOLD ANALYSIS			4.1.5
Matrix: Air Bulk DTape Lit	and the second se	dill.	Other	Acgulatory Gulatante	AB	SK Other:_	157
Analyses: Microscopic Mold Culturable N	fold Bad	teria GRA	M DPCM	Asbestos XPLM Asbestos Chatfield Asbesto		A ASDESIOS	_
Paracel Order Number:	Sampling	Air Volume	Analysis Required	Asbestos - E Identify Distinct Building Materials to Be Anal * see below		Combine Identified Materials? **see below	Positive Stop?
Sample ID	Date	(L)	Kequireu	266 0000	7		1.9
1 32-1-URSE-FZD-A 2 32-1-URSE-FZD-G 3 32-1+URSE-FZD-C 4 North MECH-MI-A 5 NORTH MECH-MI-B 6 NORTH MECH-MI-C 7 8 9 10 11 12	3102			leveling eps ) sweat paper ) lyze all materials as individual samples (at additional cost) per EP	) )		
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LADORATORIES ET.	0 X 1 10					Page // of 18	,
Client Name: GHD Contact Name: SCOTT WALLIS Address: 104-1225 GARDINERS KINGSTON, ON Telephone: 613 389 9812	52	. 0	Project Referen Quote #: PO #: Email Address	TBD	Imme 4 Hou 8 Hou Date	Turnaround Time diate	n: Pay Pay Pay
613 301 1010		ASBES	STOS &	MOLD ANALYSIS			
Matrix: Air 🕅 Bulk 🗆 Tape Lif	t □Sw		Other		1.000	SK Other:_ Asbestos	
Analyses: Microscopic Mold Culturable M	told LIBa	I GRA		Asbestos - Bu		A ME O CL	
Paracel Order Number: Sample ID	Sampling	Air Volume (L)	Analysis Required	Identify Distinct Building Materials to Be Analyz	1	Combine Identified Materials? **see below	Positive Stop?
1 811-ZBNW-RI-A 2 811-ZBNW-RI-A 3 811-ZBNW-RI-S 3 811-ZBNW-RI-C 4 811-1+1-CI-A 5 811-I-1+-CI-B 6 811-Z-BNW-UI-C 9 821-Z-BNW-WI-C 9 821-Z-BSE-WI-C	S JAN 8/02			coting Material Lo as per scott AP ceiling texture dwjc			
10 817-1-LR-WI-A 11 289-2-BSW-WI-C					600/R93/1		
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lient Name: G_HD		-	Project Referen	00 11 14 05 75 ES		Turnaround Time	
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ddress: 104-1225 GARDINERS	120	1.6	PO #:	780	B Ho		
KINGSTON, ON			Email Address:	SCOTT WALLIS & CHD. COM		Reg	gular
elephone: 613 328 97 389 98	12				Dat	e Required:	
013 800 11 801	1	ASBES	STOS &	MOLD ANALYSIS		9 13 5	
Matrix: 🛛 Air 🛛 Bulk 🛛 Tape Li			Other	Regulatory Guideline: 🖄 DN 🛛 QC	DAB	SK Other:_	
Analyses: DMicroscopic Mold DCulturable 1		teria GRA	M DPCN	A Asbestos APLM Asbestos Chatfield Asbesto	s DTEN	I Asbestos	
Paracel Order Number:			1000	Asbestos - B	ulk		_
	Sampling	Air Volume	Analysis Required	Identify Distinct Building Materials to Be Anal * see below	yzed	Combine Identified Materials? **see below	Positive Stop?
Sample ID	Date	(L)	Requireu	Section 1			
1813-2-BATH-F3-B	00			VSF-white pink pebble	0	) Y o	X
2 829 - Z - BATH - F3 - A 3 829 - Z - BATH - F3 - B	-			121-1			
4 817-2-BATH-F3A-B	3						NV
5 823-2-BATH-F3-B	12			VSF-cream		17 0	1/0
6 823- Z-BATH-F3-C	8		-		1	K . a .	1.9
7 819-2-BATH-F3-A 8 819-2-BATH-F3-B				VSF- brown publies		)y 🛛	170
109-2-BATH +3-C	M			,	- (		
10 827-2-BATH-F3A-A		-		1155		VO	140
11 289-2-BATH-F3-A			-	VSF-mock 9+9 state.	-		10
12 89 - Z - BATH - F3-B / * If left blank, Paracel will analyze all materials identified durin	e analysis **	tf left blank.	Paracel will and	lyze all materials as individual samples (at additional cost) per EP/	600/R -93/	116	-1
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Client Name: CHD Contact Name: SCOTT MALLIS		-	Quote #:		🗆 Imm		- 19 I
Address: 104-1225 GARDINGRS	20	11	PO #:		□ 4 Ho □ 8 Ho		
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012 204 101C		SRES	STOS &	MOLD ANALYSIŞ			
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Analyses: Microscopic Mold Culturable M		teria GRA		Asbestos Abestos Chatfield Asbestos		M Asbestos	30-1-2
Paracel Order Number:				Asbestos - Bu	_	A SHORE HAR AND	
	Sampling	Air Volume	Analysis	Identify Distinct Building Materials to Be Analyz * see below	red	Combine Identified Materials? **see below	Positive Stop?
Sample ID	Date	(L)	Required	See Delow	,		
1 827-2-BATH-F3B-A 2 827-2-BATH-F3B-B	00			YSF-wood		)	Y
3 827-2-BATH-F3B-C	ō				-		1/0
4 821-2-BATH-F3B-A	N						10
5 821-2-BATH F3B-B	2			NSF-mock clay, white growt	-	)7 0	1/0
6 821-2-BATH -F3B-C	A			/	1		
7 821-2-BATH-F3A-A	17			VSF-mock clay, grey grout		V D	Yo
8 821-2-BATH-F3A-B 9 821-2-BATH-F3A-C	M		1	10. Mase 31.3. 3.0.			10
10 819-CRAUL-MY-A			>	S			J.F
11 823-CRAWL-M4-A	)			)ter an block	-	)y o	110
12 289-CRAWL-MY-B	1		D. J. M.	/ lyze all materials as individual samples (at additional cost) per EPA 6	00/R -93/	r	8 -
* If left blank, Paracel will analyze all materials identified during	analysis	li ielt blank,	Paracet with ana	nyze an marchan as marriana samples on analyte at the set particular		Method of Delivery:	
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Client Name: CHD Contact Name: SCOTT WALLIS Address: 104-1225 CARDINGRS TO KINGSTON ON Telephone: 613 389 9812			Quote #: PO #: Email Address	TSD SCOTT. WALLISE GHDICOM	□ Imm □ 4 Ho □ 8 Ho Da	Turnaround Time nediate	e: Day Day Day
	l			MOLD ANALYSIS		SK Other:_	
Matrix: 🛛 Air 🕅 Bulk 🛛 Tape Lif	the second se	10 1	Other	Regulatory Guideline: BON QC		and the second sec	10
Analyses: Microscopic Mold Culturable N	fold Bac	teria GRA	M DPCM	Asbestos APLM Asbestos Chatfield Asbesto		WI ASOCSIUS	-
Paracel Order Number: Sample ID	- Sampling Date	Air Volume (L)	Analysis Required	Asbestos - B Identify Distinct Building Materials to Be Anal * see below		Combine Identified Materials? **see below	Positive Stop?
1 817-1-LR-WZ-A 2 823-CRAWL-WZ-D 3 829-2-BSE-WZ-B 4 813-1-H-F6-B 5 813-1-H-F6-B 6 822-1-H-F6-C	N 2018			tarpaper on Rbergless. ) Vinyl star trued brown		N 0 V 0 V 0	
7 289-1-LR-FZA-B 8 289-1-LR-FZA-C 9 821-1-K-FZC-B 10 823-1-UR-FZB-C 11 827-1-E-FZA-A	31 13			VFT-brown white streaks VFT-grey brown Pleeks			
12     827-1-K-FZA-B       * If left blank, Paracel will analyze all materials identified during       Comments:       >Tonly + cot poper, not Rel       Relinquished By (Sign):       Swall	e analysis	If left blank,	Paracel will an	alyze all materials as individual samples (at additional cost) per EPA Received at Lah	ied By	Dep-E	30x
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Client Name: GEHD Contact Name: SCOTT WALLIS Address: IOM-1225 GARDINGRS KINGSTON ON	20	. 0	Quote #: PO #:	TBD 	□ Imm □ 4 Ho □ 8 Ho	ur 🗆 2 D	lay Day Day
Telephone: 613 389 9812			TOS &	MOLD ANALYSIS Regulatory Guideline: DON DQC I		e Required:	
Matrix: Air BBulk Tape Lif	and the second se	teria GRA		Asbestos XPLM Asbestos Chatfield Asbestos	s DTEN	and the second second second second second	-
Analyses:  Microscopic Mold  Culturable N Paracel Order Number:	Sampling	Air Volume (L)	Analysis Required	Asbestos - B Identify Distinct Building Materials to Be Analy * see below	ulk	Combine Identified Materials? **see below	Positive Stop?
$\begin{array}{c c c c c c c c c c c c c c c c c c c $				VFT-ton with white strees VFT-ton motiled brown +white VFT-ton brown streets	100		
10 $8/9 - 1 - K - FZC - B$ 11 $8/9 - 1 - K - FZC - D$ 12 $8/9 - 1 - K - FZC - E$ * If left blank, Paracel will analyze all materials identified during	ganalysis **	f left blank,	Paracel will ana	DAFT-OWE Brown with white stre			Y o
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Client Name: GHD Contact Name: SCOTT WALLS Address: 104 - 1225 GARDING KINGSTON ON Telephone: 613 389 9812	<2 20	.0	Project Referen Quote #: PO #: Email Address	TISD	□ Imm □ 4 Ho □ 8 Ho Dat	our 🗆 2 I	Day Day Day
		ASBES	STOS &	MOLD ANALYSIS			
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Analyses: Microscopic Mold Culturable M	old 🗆 Ba	eteria GRA	M DPCM	Asbestos PLM Asbestos Chatfield Asbestos		A Aspestos	-
Paracel Order Number: Sample ID	Sampling Date	Air Volume (L)	Analysis Required	Asbestos - B Identify Distinct Building Materials to Be Analy * see below		Combine Identified Materials? **see below	Positive Stop?
1 811-2-BNW-FZB-A 2 811-2-BSE-FZB-B 3 811-2-BSE-FZB-C 4 813-1-K-FZB-B 5 813-1-K-FZB-C 6 289-1-URNE-FZB-C 7 821-1-K-FZB-B 8 821-1-K-FZB-C 9 821-1-K-FZB-D 10 SOUTH MECH-MI-A 11 SOUTH MECH-MI-B 12 SOUTH MECH-MI-C	31-121 2018			VFT-beige mottled whitet bo VFT-beige mottled whitet bo VFT-beiget white , grey boek Sweat paper	4		
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Consact Name:     Sect:     Construction     Constru							Page 17 of 18	
ASBESTOS & MOLD ANALYSIS         Matrix:       Date       Other       Regulatory Guideline:       On       QC       DA       SK       Other:         Analyses:       Microscopic Mold       Calurable Mold       Bacteria GRAM       IPCM Asbestos       Calurable Asbestos       Item Asbestos<	Contact Name: SEGTT WALLIS Address: 104-1225 GARDINERS KINGSTON ON	60	. 4	Quote #: PO #:	TSD	□ 4 Ho □ 8 Ho	Turnaround Time mediate 1 D pur 2 D pur 3 D pur 3 D Reg	ay ay ay
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2       8/7E - US - B       M m       Concrete parget       M m         3       82SE - US - C       M m       Image: Concrete parget		Date	(15)	T				NP
3       829E-USF-C       Image: Constraint of the black, Paracel will analyze all materials as individual samples (at additional cost) per EPA 600/R-93/116         4       289-M3-A       Image: Constraint of the black, Paracel will analyze all materials as individual samples (at additional cost) per EPA 600/R-93/116         6       8       Image: Constraint of the black, Paracel will analyze all materials as individual samples (at additional cost) per EPA 600/R-93/116         9       Image: Constraint of the black, Paracel will analyze all materials as individual samples (at additional cost) per EPA 600/R-93/116         11       Image: Constraint of the black, Paracel will analyze all materials as individual samples (at additional cost) per EPA 600/R-93/116         Comments:       Image: Constraint of the black, Paracel will analyze all materials as individual samples (at additional cost) per EPA 600/R-93/116		1			concrete parce.		1	11
4       289-M3-A       30       9         6       821 - M3-C       0       0         7       0       0       0         8       0       0       0         9       0       0       0         10       0       0       0         11       0       0       0         12       0       0       0         14       0       0       0         15       0       0       0         10       0       0       0         11       0       0       0         12       0       0       0         14       0       0       0         15       0       0       0         16       0       0       0         17       0       0       0         18       0       0       0         19       0       0       0         10       0       0       0         12       0       0       0         10       0       0       0         10       0       0       0 <td></td> <td>Ma</td> <td></td> <td>/</td> <td></td> <td></td> <td>/</td> <td></td>		Ma		/			/	
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				AUA		Page B of 18	
Client Name: CHD Contact Name: SCOTT WALLIS Address: 104-1225 GARDINGO KINGSTON ON Telephone: 6133899812	05/25	. 0	Project Referen Quote #: PO #: Email Address	TOD	□ Imme □ 4 Hou □ 8 Hou Date	r 🗆 2 D	Day Day Day
		ASBES	STOS &	MOLD ANALYSIS			
Matrix: Air Bulk Tape Lif		Contraction in the second	Other	Regulatory Guideline: WON DQC D	JAB	SK Other:_	
Analyses: Microscopic Mold Culturable M	All Property lies and the second seco	cteria GRA	M DPCM	Asbestos Abestos Chatfield Asbestos			1
Paracel Order Number:				Asbestos - Bu	ılk	And the second second	
Sample ID	Sampling Date	Air Volume (L)	Analysis Required	Identify Distinct Building Materials to Be Analy * see below	zed	Combine Identified Materials? **see below	Positive Stop?
1 34E-W5-A	-0415						
2 34E-WS-B	0			conc perge.			12
3 246-65-6	10	-	-				
4 32-2-BNE-M3-A	1			) exterior caulking		Vo	10
5 24E-M3-B 6 32E-M3-C	11		1916				1/0
1 279E-WS-A	3		4		4		
8 279 E -WS-B	X			) cane parge			WA-
1283E-WS-C	7						
10 281-M3-C 11 279E-M3-B		-		exterior caulking			X
12 283-M3-A				3		// □	10
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# Appendix C Analytical Laboratory Reports - Lead

GHD | Designated Substance Survey |11140575 (4)



RELIABLE.

300 - 2319 St. Laurent Blvd Ottawa, ON, K1G 4J8 1-800-749-1947 www.paracellabs.com

# Certificate of Analysis

GHD Limited (Kingston) 1225 Gardiners Rd. Kingston, ON K7P 0G3 Attn: Scott Wallis Client PO: TBD Project: 11140575-E5 Custody: 114839, 840, 841, 842, 843, 844

Report Date: 14-Feb-2018 Order Date: 9-Feb-2018

Order #: 1806434

This Certificate of Analysis contains analytical data applicable to the following samples as submitted:

Paracel ID	Client ID
1806434-01	38-K-Wall-P1
1806434-02	277-LR-Wall-P1 (orange)
1806434-03	277-LR-Ceiling- P2 (white)
1806434-04	277-2-BSW-Wall-P3
1806434-05	279-LR-Wall-P1
1806434-06	279-2-BNW-Wall-P2
1806434-07	279-2-BSW-Wall-P3
1806434-08	281-2-BNW-Wall-P2
1806434-09	283-LR-Wall-P1
1806434-10	283-2-BSW-Wall-P2
1806434-11	283-2-BNW-Wall-P3
1806434-12	285-LR-Ceiling-P1
1806434-13	285-2-BSE-Wall-P2
1806434-14	285-2-BSW-Wall-P3
1806434-15	22-2-BNE-Wall-P2
1806434-16	22-2-BNE-Ceiling-P3
1806434-17	24-(UR)-Ceiling-P1 (white)
1806434-18	24-2-BNE-Wall-P1 (blue)
1806434-19	24-2-BNW-Wall-P1 (aqua)
1806434-20	30 (UR)-Wall-P1 (white)
1806434-21	30-1-entrance-Wall-P1 (green)
1806434-22	30(LR)-Wall-P1 (orange)
1806434-23	32-2-BNE-W-P1
1806434-24	34-2-BNW-C-P2
1806434-25	34-L-BNE-W-P1
1806434-26	Mech Room#1-Floor-P1
1806434-27	Mech Room#1-Wall-P2
1806434-28	Mech Room#1-Ceiling-P3
1806434-29	811-1-KIT-W-P1-beige
1806434-30	813-2-BSW-C-P2-grey

1806434-31	813-1-LR-W-P1-beige
1806434-32	819-2-BSW-C-P2-tan/white
1806434-33	819-1-LR-W-P1-beige
1806434-34	821-2-BSE-W-P3-white
1806434-35	821-1-LR-W-P1-white
1806434-36	823-1-LR-W-P1-white
1806434-37	823-2-BSE-W-P2-cream
1806434-38	823-2-BSw-W-P3-cream
1806434-39	827-2-BNW-W-P1-beige
1806434-40	827-2-BNE-W-P2-grey
1806434-41	829-2-BSW-C-P1-white
1806434-42	829-2-BSE-C-P2-white
1806434-43	829-1-LR-W-P3-tan
1806434-44	289-2-BNW-W-P3-grey
1806434-45	289-2-BNE-C-P2-grey
1806434-46	South Mech-W-P1-tan

Approved By:

Mark Fin

Mark Foto, M.Sc. Lab Supervisor

Any use of these results implies your agreement that our total liability in connection with this work, however arising shall be limited to the amount paid by you for this work, and that our employees or agents shall not under circumstances be liable to you in connection with this work



Certificate of Analysis Client: GHD Limited (Kingston) Client PO: TBD

#### **Analysis Summary Table**

Analysis	Method Reference/Description	Extraction Date A	nalysis Date
Metals, ICP-OES	based on MOE E3470, ICP-OES	12-Feb-18	13-Feb-18

#### Sample and QC Qualifiers Notes

1- QR-05 : Duplicate RPDs higher than normally accepted. Remaining batch QA\QC was acceptable. May be sample effect.

#### Sample Data Revisions

None

#### Work Order Revisions/Comments:

None

#### **Other Report Notes:**

n/a: not applicable ND: Not Detected MDL: Method Detection Limit Source Result: Data used as source for matrix and duplicate samples %REC: Percent recovery. RPD: Relative percent difference.



Certificate of Analysis Client: GHD Limited (Kingston) Client PO: TBD

### Sample Results

Lead	Sampl	Matrix: Paint le Date: 31-Jan-18		
Paracel ID	Client ID	Units	MDL	Result
1806434-01	38-K-Wall-P1	ug/g	20	<20
1806434-02	277-LR-Wall-P1 (orange)	ug/g	20	<20
1806434-03	277-LR-Ceiling- P2 (white)	ug/g	20	89
1806434-04	277-2-BSW-Wall-P3	ug/g	20	<20
1806434-05	279-LR-Wall-P1	ug/g	20	<20
1806434-06	279-2-BNW-Wall-P2	ug/g	20	<20
1806434-07	279-2-BSW-Wall-P3	ug/g	20	<20
1806434-08	281-2-BNW-Wall-P2	ug/g	20	<20
1806434-09	283-LR-Wall-P1	ug/g	20	<20
1806434-10	283-2-BSW-Wall-P2	ug/g	20	<20
1806434-11	283-2-BNW-Wall-P3	ug/g	20	<20
1806434-12	285-LR-Ceiling-P1	ug/g	20	78
1806434-13	285-2-BSE-Wall-P2	ug/g	20	<20
1806434-14	285-2-BSW-Wall-P3	ug/g	20	<20
1806434-15	22-2-BNE-Wall-P2	ug/g	20	<20
1806434-16	22-2-BNE-Ceiling-P3	ug/g	20	224
1806434-17	24-(UR)-Ceiling-P1 (white)	ug/g	20	298
1806434-18	24-2-BNE-Wall-P1 (blue)	ug/g	20	<20
1806434-19	24-2-BNW-Wall-P1 (aqua)	ug/g	20	94
1806434-20	30 (UR)-Wall-P1 (white)	ug/g	20	324
1806434-21	30-1-entrance-Wall-P1 (green)	ug/g	20	<20
1806434-22	30(LR)-Wall-P1 (orange)	ug/g	20	<20
1806434-23	32-2-BNE-W-P1	ug/g	20	337
1806434-24	34-2-BNW-C-P2	ug/g	20	101
1806434-25	34-L-BNE-W-P1	ug/g	20	<20
1806434-26	Mech Room#1-Floor-P1	ug/g	20	138
1806434-27	Mech Room#1-Wall-P2	ug/g	20	115
1806434-28	Mech Room#1-Ceiling-P3	ug/g	20	<20
1806434-29	811-1-KIT-W-P1-beige	ug/g	20	<20
1806434-30	813-2-BSW-C-P2-grey	ug/g	20	57
1806434-31	813-1-LR-W-P1-beige	ug/g	20	225
1806434-32	819-2-BSW-C-P2-tan/white	ug/g	20	23
1806434-33	819-1-LR-W-P1-beige	ug/g	20	253
1806434-34	821-2-BSE-W-P3-white	ug/g	20	190

#### Order #: 1806434

Report Date: 14-Feb-2018 Order Date: 9-Feb-2018 Project Description: 11140575-E5



Certificate of Analysis Client: GHD Limited (Kingston) Client PO: TBD Order #: 1806434

Report Date: 14-Feb-2018 Order Date: 9-Feb-2018 Project Description: 11140575-E5

## Sample Results

Lead	Lead					
Paracel ID	Client ID	Units	MDL	Result		
1806434-35	821-1-LR-W-P1-white	ug/g	20	<20		
1806434-36	823-1-LR-W-P1-white	ug/g	20	528		
1806434-37	823-2-BSE-W-P2-cream	ug/g	20	160		
1806434-38	823-2-BSw-W-P3-cream	ug/g	20	<20		
1806434-39	827-2-BNW-W-P1-beige	ug/g	20	<20		
1806434-40	827-2-BNE-W-P2-grey	ug/g	20	116		
1806434-41	829-2-BSW-C-P1-white	ug/g	20	53		
1806434-42	829-2-BSE-C-P2-white	ug/g	20	234		
1806434-43	829-1-LR-W-P3-tan	ug/g	20	<20		
1806434-44	289-2-BNW-W-P3-grey	ug/g	20	439		
1806434-45	289-2-BNE-C-P2-grey	ug/g	20	<20		
1806434-46	South Mech-W-P1-tan	ug/g	20	30		

## Laboratory Internal QA/QC

Analyte	F Result	Reporting Limit	Units	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Matrix Blank									
Lead	ND	20	ug/g						
Matrix Duplicate									
Lead	ND	20	ug/g	ND			0.0	30	
Matrix Spike									
Lead	206		ug/L	ND	82.4	70-130			

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iontact Name: Scott Wallis	04			PO# TB	D		- 20	ati		Regular							
Kingston ON KTP OG3	Email Address: SCatt. Wallis@ghd.com										□ 2 Day BrRegu Date Required:						
iddress: 1225 Gardiners Ra, Unit Kingston, ON KTP OG3 relephone: 613-389-9812	Scott. Wallise granding									Date		her:					
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1806434	ці.х	Air Volume	of Containers				8	Is at the		-	B (HWS)	Lead					
Sample ID/Location Name	Matrix	Air	t of	Date	Time	PHCs	VOCS	PAHs Meets	Hat	CrVI	B (	_	_				
1 38-K-Wall-Pl	1			2018		_		_	+	-		1×	_	-			
2 277-LR-Wall-PI (orange)				K		-		+	+	-	Н	1	-	+			_
3 277-LR-Ceiling-P2 (white)				5		-		+	+	+	$\square$	X	-	-		-	
3 277-LR-Ceiling-P2 (white) 4 277-2-BSW-Wall-P3			_	5		-		+	+	+	-	1	-	-			
5 279-LR-Wall-PI	0			5		-		+	+	+	-	+	-	-		-	
· 279-2-BNW-Wall-P2	T		-	3		-	$\left  \right $	+	+	+	-	X	-	-		-	
7 279-2-BSW-Wall-P3		_	-	p		+	$\left  \right $	+	+	+	-	X	-	-		-	
* 281-2-BNW-Wall-P2	$\square$	-	-			-	$\left  \right $	+	+	+	+	V.	-	-			
2 283-18-11/011-PI	$\square$	-	-	10			$\vdash$	+	+	+	+	X	-			-	
10 283-2-BSW-Wall-P2							Ц		_	-	<u> </u>				Method	of Deliver	y:
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1 283-2-BNW-Wall-P3 2 285-LR-Ceiling-P1 3 285-2-BSE-Wall-P2 4 285-2-BSW-Wall-P3	4			31-Jun 2018								XXXX					
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1 22-2-BNE-Wall-P2	+	-	-	8								X					
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GPARACEL   RES	STE	D. ISIVI	E .	Par	acel									Chain o (Lab U Nº	ise Only)				
LABORATORIES LTD.	IABL	.E .						P		a hm	uvenava	com		Page	5 or f	2			
			Project Reference:	11 14	05	1 1	75	- 6	=5	-				Furnaro	und T	ime:			
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Address: 104-1225 GARDINGRS IZD	2011 0010013							PO# TBD											
KINGSTON ON	Email Address:	SCOTT.	WA	LCI	SO	G	HD	, Co	M		□ 2 D;	i n u		Regular					
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aracel Order Number:			Sample		s F1-F4+BTEX	2	6	uls by ICP		8 (1WS)	LEAD								
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Ch iin of Custody (Env) - Rev 0.7 Feb. 2016

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latrix Type: S (Soil Sed.) GW (Ground Water) SW (Sannee Water)		Air Volume	of Containers		e Taken	> F1-F4+BTEX	2	Is als by ICP		-	B (HWS)	LEAD			
Sample ID/Location Name	Matrix	Air	JO #	Date	Time	PHCs	NO	PAHs Metals	Hg	CrVI	B.()	7			
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