



Designated Substances and Hazardous Material Survey

OCHC 818 Gladstone Avenue Complex
59 Raymond Street;
63 through 73 (odd) Raymond Street;
81, 83 Raymond Street;
488 through 534 (even) Booth Street;
299 through 361 (odd) Rochester Street;
365 Rochester Street; 818 through
832 (even) Gladstone Avenue
Ottawa, Ontario

Ottawa Community Housing
Corporation





Executive Summary

GHD was retained by Mr. Amin representing Ottawa Community Housing Corporation (Client or OCHC) to conduct a Designated Substances (DS) Survey for the ten townhouse buildings forming the OCHC, 818 Gladstone Complex. The ten buildings occupy the neighbourhood block formed by Gladstone Avenue, Rochester Street, Booth Street, and Raymond Street in Ottawa, Ontario (Site or Property). The Work Area, as identified by the Client, was limited to:

- The ten 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 was allowed in all potentially impacted areas of the Work Area, with the exception of the occupied units at 822, 824, 826, 830 and 832 Gladstone Avenue; 299, 303, 307, 313, 317, 321, 331, 343, 349, 365 Rochester Street; 494, 504, 514, 528, 530 Booth Street and 73 Raymond Street. Sampling was permitted in all non-occupied units. Access to the attics of the buildings were limited to units 67 and 69 Raymond Street. For the purpose of this investigation, Gladstone Avenue was assumed to be the west-east axis of the Site, and the entire complex was treated as a single 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:
 - W1/Drywall Joint Compound | Friable, white colored drywall joint compound found on walls and ceilings in the building. Visually similar material was identified in all units in all buildings, accordingly, all drywall joint compound is assumed to be ACM. The material was generally in good condition.
 - F32/Vinyl Floor Tile | Non-friable vinyl floor tile (9" x 9", olive with white flecks) submitted from Unit 488. Visually similar flooring was identified in unit 492 (closet), unit 524 (closet) and unit 329 (stairs landing); these visually similar materials should also be treated as ACM.
 - F56/Vinyl Floor Tile | Non-friable vinyl floor tile (9" x 9", dark brown) submitted from Unit 355 (stair landing). No visually similar flooring was identified in any other units.



- F64/Vinyl Floor Tile | Non-friable vinyl floor tile (9" x 9", beige with small brown flecks) submitted from Unit 65 (kitchen). No visually similar flooring was identified in any other units.
- F68/Vinyl Floor Tile | Non-friable vinyl floor tile (12" x 12", beige with brown streaks) submitted from Unit 339 (2nd floor). No visually similar flooring was identified in any other units.
- M2/Tar seal on foundation walls | Non-friable black tar was present in the crawlspaces, used to affix Styrofoam panels to the concrete block walls, and as damp proofing on the interior of the block walls. Visually similar material was identified in all units in all buildings, accordingly, all black tar on exterior walls and on white Styrofoam panels is assumed to be ACM. The material was generally in good condition.
- M4/Cellulose Pipe Wrap | Non-friable pipe wrap pipe insulation was identified on pipes in Unit 355 (1st floor laundry). There was approximately 5 meters (m) of this material. Approximately 3 m of a visually similar material was identified in Unit 337 (basement bedroom).
- M5/Vermiculite | Vermiculite was identified acting as insulation around a pipe in the entrance of Unit 67. The vermiculite was identified to contain Tremolite asbestos at concentrations above 0.5 percent. The Client should treat all vermiculite found at the Site as ACM.
- M6/Cement Elbow | Three cement elbows submitted from Unit 355 (laundry room). The Client should treat all cement elbows found at the Site as ACM.
- M11/White exterior caulking | While the submitted samples of the exterior caulking around the windows and doors from Unit 504 and Unit 65 were determined to not contain asbestos, a visually similar sample collected from Unit 337 was identified to contain Chrysotile asbestos at concentrations above 0.5 percent. Accordingly, the Client should treat all white caulking found at the Site as ACM.

A contractor, certified for asbestos abatement, should be retained to complete asbestos abatement services prior to demolition of the buildings. Handling and disposal of all ACM should be conducted in accordance with O. Reg. 278/05.

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. If hidden materials that may be potential ACM are discovered during further assessment, 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 21 of 50 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.



Table of Contents

| | | |
|------|--|----|
| 1. | Introduction..... | 1 |
| 1.1 | Regulations and Guidance..... | 3 |
| 1.2 | Scope of Work | 3 |
| 2. | Site Overview | 4 |
| 3. | Records Review | 4 |
| 4. | Site Inspections | 4 |
| 5. | DS Survey | 4 |
| 5.1 | Acrylonitrile | 4 |
| 5.2 | Arsenic | 5 |
| 5.3 | Asbestos | 5 |
| 5.4 | Benzene | 5 |
| 5.5 | Coke Oven Emissions..... | 5 |
| 5.6 | Ethylene Oxide..... | 5 |
| 5.7 | Isocyanates..... | 6 |
| 5.8 | Lead | 6 |
| 5.9 | Mercury | 6 |
| 5.10 | Silica..... | 6 |
| 5.11 | Vinyl Chloride..... | 7 |
| 6. | Asbestos Survey | 7 |
| 6.1 | Asbestos Sampling Methodology | 7 |
| 6.2 | Sampling | 7 |
| 6.3 | Results | 7 |
| 7. | Lead Paint Sampling | 23 |
| 7.1 | Lead Surface Coating Regulations and Standards | 23 |
| 7.2 | Paint Sampling..... | 23 |
| 7.3 | Paint Chip Testing..... | 24 |
| 8. | Conclusions/Recommendations..... | 27 |
| 9. | Limitations | 29 |



Figure Index

| | |
|----------|-------------------|
| Figure 1 | Site Location Map |
| Figure 2 | Site Plan |

Table Index

| | | |
|-----------|---|----|
| Table 6.1 | Summary of Asbestos Bulk Samples - Vinyl Floor Samples..... | 8 |
| Table 6.2 | Summary of Asbestos Bulk Samples – Building Materials..... | 19 |
| Table 7.1 | Summary of Lead in Paint Chip Samples..... | 24 |

Appendix Index

| | |
|------------|--|
| Appendix A | Site Photographs |
| Appendix B | Analytical Laboratory Reports - Asbestos |
| Appendix C | Analytical Laboratory Reports - Lead |



1. Introduction

GHD was retained by Mr. Amin Amin representing Ottawa Community Housing Corporation (Client or OCHC) to conduct a Designated Substances (DS) Survey for the ten townhouse buildings forming the 818 Gladstone Avenue Complex (Site or Property). The DS Survey was conducted as detailed in our Proposal (No. 11177877) dated May 24, 2019, with the following exceptions:

- Townhouses numbered 822, 824, 826, 830 and 832 Gladstone Avenue; 299, 303, 307, 313, 317, 321, 331, 343, 349, 365 Rochester Street; 494, 504, 514, 528, 530 Booth Street and 73 Raymond Street were not inspected as the units were occupied.
- With the exception of units 67 and 69 Raymond Street, the attic of all units were not inspected.

For the purposes of this investigation:

- Gladstone Avenue is considered to represent the west-east axis
- The Site is occupied by 10 separate townhouse buildings, including:
 - Building 1 | 818 through 832 (even numbered) Gladstone, and unit 299 Rochester Street, including Mechanical room
 - Units 822, 824, 826, 830, 832, 299 were occupied
 - Building 2 | 301 through 325 (odd numbered) Rochester Street, including two Mechanical rooms
 - Units 303, 307, 313, 317, 321 were occupied
 - Building 3 | 339 through 361 (odd numbered) Rochester Street, including Mechanical Room
 - Units 343, 349 were occupied
 - Building 4 | 327 through 337 (odd numbered) Booth Street
 - Unit 331 was occupied
 - Building 5 | 498 through 508 (even numbered) Booth Street
 - Unit 504 was occupied
 - Building 6 | 488 through 496 (even numbered) Booth Street
 - Unit 494 was occupied
 - Building 7 | 510 through 534 (even numbered) Booth Street, including two Mechanical Rooms
 - Unit 514, 528, 530 were occupied
 - Building 8 | 59 Raymond Street, 538 through 542 (even numbered) Booth Street
 - Building 9 | 63 through 73 (odd numbered) Raymond Street, including Mechanical Room
 - Unit 73 could not be accessed
 - Building 10 | 81 and 83 Raymond Street, 365 Rochester Street
 - 365 was occupied



- All ten buildings on the Site were treated as a single structure

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

- The ten 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 ten 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 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.

The following items were not inspected or sampled as part of Site inspections since these items were not readily accessible, or 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
- Components in non-fixed systems (appliances, etc.)
- Materials inside sealed manufactured products (i.e., doors, etc.)
- Materials below grade

During the site visit, it was noted that newer plywood floor decking was present in many of the units of the complex. This decking was penetrated in 17 separate locations during the site visit, indicating that older vinyl flooring was not concealed in these locations. However, there is a possibility that there may be locations not inspected where the decking was laid over older flooring materials.

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/2016-193), pursuant to the Canada Consumer Safety 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
- Environmental Protection Act:
 - O. Reg. 347/90, General - Waste Management
- 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).
- 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 June 5, 6, 7, 2019, GHD staff (Mr. Scott Wallis, Ms. Zoé Jeurond, Ms. Jacquelyn Curphey, and Mr. Junmeng Liu) completed the Site assessment of the Work Area identified by OCHC staff. The assessment involved a 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 neighbourhood block formed by Gladstone Avenue, Rochester Street, Booth Street, and Raymond Street in Ottawa, Ontario. The Site is located in an area developed for institutional and mixed residential / commercial use.

The Site contains ten separate multi-unit residential buildings, reportedly constructed in the 1960s. The majority of the buildings are two stories in height (67 units were two stories, five units were three stories, and five units were single story), 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 five mechanical rooms that contain a concrete floored basement level. With the exception of the mechanical rooms the remainder of the buildings contain an earthen floor crawlspace and concrete block foundation walls. The majority (56/77) 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 June 5 through 7, 2019, GHD staff (Mr. Scott Wallis, Ms. Zoé Jeurond, Ms. Jacquelyn Curphey, and Mr. Junmeng Liu) conducted the Site assessment of the ten 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 within the 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 present in limited quantities in the form of small amounts of pressure treated wood products in the exterior yards of the units.

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 and thermometers 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 suspect 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, the entire Site was considered to be a single building, containing a number of townhouse units. Samples were identified in the laboratory reports as (townhouse number)-(building material)-(sample).

Bulk sample sets (86 total distinct building materials) with a total of 275 samples were submitted for analysis to determine asbestos type and, if present, the relative concentration. Photographs of typical sampled materials are provided in Appendix A.

The samples were submitted under Chain-of-Custody protocol to Paracel Laboratories Ltd. (Paracel) in Ottawa, 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 - Vinyl Floor Samples and Table 6.2: Summary of



Asbestos Bulk Samples – Building Materials. The analytical laboratory report, Paracel Report #1924394, has been provided in Appendix B.

Table 6.1 Summary of Asbestos Bulk Samples - Vinyl Floor Samples

| Sample Identification | Sample Location | Sample Description | Asbestos Content |
|-----------------------|--|---|------------------|
| 538-F2-A | Unit 538 2nd floor, bathroom | VSF with pink, blue and gray stones | None Detected |
| 65-F2-A | Unit 65 2nd floor, bathroom | VSF with pink, blue and gray stones | None Detected |
| 488-F2-D | Unit 488 2nd floor, bathroom | VSF with pink, blue and gray stones | None Detected |
| 498-F3-G | Unit 498 1st floor, kitchen | VFT, 12"x12" tan with brown chunks | None Detected |
| 83-F3-M | Unit 83 1st floor, laundry room | VFT, 12"x12" tan with brown chunks | None Detected |
| 820-F3-A | Unit 820 1st floor, hallway | VFT, 12"x12" tan with brown chunks | None Detected |
| 828-F4-A | Unit 828 2nd floor, northeast bedroom | VFT, 12"x12" beige with brown streaks | None Detected |
| 518-F4-K | Unit 518 1st floor, hallway | VFT, 12"x12" beige with brown streaks | None Detected |
| 357-F4-A | Unit 357 1st floor, entrance | VFT, 12"x12" beige with brown streaks | None Detected |
| 828-F5-A | Unit 828 2nd floor, bathroom | VSF, speckled brown and beige | None Detected |
| 828-F5-B | Unit 828 2nd floor, bathroom | VSF, speckled brown and beige | None Detected |
| 828-F5-C | Unit 828 2nd floor, bathroom | VSF, speckled brown and beige | None Detected |
| 492-F6-A | Unit 492 Staircase | Vinyl stair tread, brown with beige streaks | None Detected |
| 532-F6-I | Unit 532 Staircase | Vinyl stair tread, brown with beige streaks | None Detected |
| 828-F6-I | Unit 828 Staircase | Vinyl stair tread, brown with beige streaks | None Detected |
| 329-F7-E | Unit 329 2nd floor, bathroom | VSF, beige and tan stones | None Detected |
| 498-F7-B | Unit 498 2nd floor, bathroom | VSF, beige and tan stones | None Detected |
| 526-F7-C | Unit 526 1st floor, kitchen | VSF, beige and tan stones | None Detected |
| 301-F8-A | Unit 301 1st floor, laundry room | VFT, 12"x12" brown with tan chunks | None Detected |



Table 6.1 Summary of Asbestos Bulk Samples - Vinyl Floor Samples

| Sample Identification | Sample Location | Sample Description | Asbestos Content |
|-----------------------|--|---|------------------|
| 301-F8-B | Unit 301 1st floor, laundry room | VFT, 12"x12" brown with tan chunks | None Detected |
| 301-F8-C | Unit 301 1st floor, laundry room | VFT, 12"x12" brown with tan chunks | None Detected |
| 518-F9-G | Unit 518 1st floor, laundry room | VFT, 12"x12" beige with tan chunks | None Detected |
| 305-F9-B | Unit 305 1st floor, kitchen | VFT, 12"x12" beige with tan chunks | None Detected |
| 488-F9-O | Unit 488 1st floor, laundry room | VFT, 12"x12" beige with tan chunks | None Detected |
| 305-F10-A | Unit 305 2nd floor, southeast bedroom | VFT strips - mock brown wood | None Detected |
| 305-F10-B | Unit 305 2nd floor, southeast bedroom | VFT strips - mock brown wood | None Detected |
| 305-F10-C | Unit 305 2nd floor, southeast bedroom | VFT strips - mock brown wood | None Detected |
| 512-F11-B | Unit 512 1st floor, laundry room | VSF mock ceramic tile, textured beige | None Detected |
| 83-F11-C | Unit 83 2nd floor, bathroom | VSF mock ceramic tile, textured beige | None Detected |
| 305-F11-A | Unit 305 | VSF mock ceramic tile, textured beige | None Detected |
| 323-F12-D | Unit 323 1st floor, southwest living room | VFT, 12"x12" 50/50 beige and brown streaks | None Detected |
| 329-F12-J | Unit 329 1.5 floor, landing | VFT, 12"x12" 50/50 beige and brown streaks | None Detected |
| 540-F12-B | Unit 540 2nd floor, southeast bedroom | VFT, 12"x12" 50/50 beige and brown streaks | None Detected |
| 486-F13-H | Unit 486 2nd floor, closet | VFT, 12"x12", beige with not very many brown flecks | None Detected |
| 319-F13-B | Unit 319 1st floor, laundry room | VFT, 12"x12", beige with not very many brown flecks | None Detected |
| 339-F13-K | Unit 339 1st floor, kitchen | VFT, 12"x12", beige with not very many brown flecks | None Detected |
| 64-F14-C | Unit 63 1st floor, kitchen | VSF, mock 12"x12" ceramic tile, tan and brown | None Detected |
| 311-F14-A | Unit 311 1st floor, living room | VSF, mock 12"x12" ceramic tile, tan and brown | None Detected |



Table 6.1 Summary of Asbestos Bulk Samples - Vinyl Floor Samples

| Sample Identification | Sample Location | Sample Description | Asbestos Content |
|-----------------------|-------------------------------------|---|------------------|
| 359-F14-A | Unit 359 2nd floor, bathroom | VSF, mock 12"x12" ceramic tile, tan and brown | None Detected |
| 311-F15-A | Unit 311 1st floor, kitchen | VSF, mock 12x12" ceramic tiles, dark brown | None Detected |
| 311-F15-B | Unit 311 1st floor, kitchen | VSF, mock 12x12" ceramic tiles, dark brown | None Detected |
| 311-F15-C | Unit 311 1st floor, kitchen | VSF, mock 12x12" ceramic tiles, dark brown | None Detected |
| 81-F16-F | Unit 81 1st floor, entrance | VFT12"x12", grey with streaks | None Detected |
| 520-F16-C | Unit 520 1st floor, laundry | VFT12"x12", grey with streaks | None Detected |
| 315-F16-A | Unit 315 1st floor, entrance | VFT12"x12", grey with streaks | None Detected |
| 315-F17-A | Unit 315 1st floor, laundry room | VFT, 12"x36", mock 3-12"x12" ceramic tiles, brown slate | None Detected |
| 315-F17-B | Unit 315 1st floor, laundry room | VFT, 12"x36", mock 3-12"x12" ceramic tiles, brown slate | None Detected |
| 315-F17-C | Unit 315 1st floor, laundry room | VFT, 12"x36", mock 3-12"x12" ceramic tiles, brown slate | None Detected |
| 319-F19-A | Unit 319 2nd floor, bathroom | VSF, pink and beige stones | None Detected |
| 319-F19-B | Unit 319 2nd floor, bathroom | VSF, pink and beige stones | None Detected |
| 319-F19-C | Unit 319 2nd floor, bathroom | VSF, pink and beige stones | None Detected |
| 323-F20-A | Unit 323 1st floor, entrance | VSF, white textured | None Detected |
| 323-F20-B | Unit 323 1st floor, entrance | VSF, white textured | None Detected |
| 323-F20-C | Unit 323 1st floor, entrance | VSF, white textured | None Detected |
| 325-F21-B | Unit 325 2nd floor, bathroom | VSF, white mock tiles | None Detected |
| 490-F21-C | Unit 490 2nd floor, bathroom | VSF, white mock tiles | None Detected |
| 81-F21-D | Unit 81 2nd floor, bathroom | VSF, white mock tiles | None Detected |
| 325-F22-A | Unit 325 1st floor, living room | VFT strips, vinyl mock hardwood flooring, dark grey | None Detected |
| 339-F22-A | Unit 339 1st floor, living room | VFT strips, vinyl mock hardwood flooring, dark grey | None Detected |



Table 6.1 Summary of Asbestos Bulk Samples - Vinyl Floor Samples

| Sample Identification | Sample Location | Sample Description | Asbestos Content |
|-----------------------|-------------------------------------|--|------------------|
| 492-F22-B | Unit 492 1st floor, laundry room | VFT strips, vinyl mock hardwood flooring, dark grey | None Detected |
| 325-F23-A | Unit 325 Staircase | Vinyl stair tread, black | None Detected |
| 325-F23-B | Unit 325 Staircase | Vinyl stair tread, black | None Detected |
| 325-F23-C | Unit 325 Staircase | Vinyl stair tread, black | None Detected |
| 510-F24-G | Unit 510 1st floor, laundry | VSF, mock tiles, brown | None Detected |
| 325-F24-A | Unit 325 2nd floor, bathroom | VSF, mock tiles, brown | None Detected |
| 506-F24-E | Unit 506 1st floor, laundry | VSF, mock tiles, brown | None Detected |
| 532-F25-C | Unit 532 1st floor, hallway | VFT strips, vinyl mock hardwood flooring, cherry brown | None Detected |
| 532-F25-E | Unit 532 1st floor, hallway | VFT strips, vinyl mock hardwood flooring, cherry brown | None Detected |
| 532-F25-A | Unit 532 1st floor, hallway | VFT strips, vinyl mock hardwood flooring, cherry brown | None Detected |
| 532-F27-A | Unit 500 1st floor, kitchen | VFT, 12"x12" off white with beige flecks | None Detected |
| 500-F27-B | Unit 500 1st floor, kitchen | VFT, 12"x12" off white with beige flecks | None Detected |
| 500-F27-C | Unit 500 1st floor, kitchen | VFT, 12"x12" off white with beige flecks | None Detected |
| 500-F28-A | Unit 500 2nd floor, bathroom | VFT, 12"x12" beige with almost green | None Detected |
| 500-F28-B | Unit 500 2nd floor, bathroom | VFT, 12"x12" beige with almost green | None Detected |
| 500-F28-C | Unit 500 2nd floor, bathroom | VFT, 12"x12" beige with almost green | None Detected |
| 534-F29-A | Unit 534 1st floor, laundry room | VSF, mock 12"x12" brown tile | None Detected |
| 534-F29-B | Unit 534 1st floor, laundry room | VSF, mock 12"x12" brown tile | None Detected |
| 534-F29-C | Unit 534 1st floor, laundry room | VSF, mock 12"x12" brown tile | None Detected |



Table 6.1 Summary of Asbestos Bulk Samples - Vinyl Floor Samples

| Sample Identification | Sample Location | Sample Description | Asbestos Content |
|-----------------------|---|---|--------------------------------|
| 512-F30-C | Unit 512 1st floor, living room | VFT strips, vinyl mock hardwood flooring, grey with knots | None Detected |
| 502-F30-B | Unit 502 1st floor, kitchen | VFT strips, vinyl mock hardwood flooring, grey with knots | None Detected |
| 510-F30-C | Unit 510 1st floor, kitchen | VFT strips, vinyl mock hardwood flooring, grey with knots | None Detected |
| 488-F32-B | Unit 488 1st floor, living room | VFT, 9"x9" olive with white flecks | 10% Chrysotile Asbestos |
| 524-F32-D | Unit 524 1st floor, closet | VFT, 9"x9" olive with white flecks | Not Analyzed Stop Positive* |
| 329-F32-E | Unit 329 1.5 floor, landing | VFT, 9"x9" olive with white flecks | Not Analyzed Stop Positive* |
| 490-F33-A | Unit 490 2nd floor, southwest bedroom | VFT strips, Vinyl mock hardwood flooring, maple wood | None Detected |
| 490-F33-B | Unit 490 2nd floor, southwest bedroom | VFT strips, Vinyl mock hardwood flooring, maple wood | None Detected |
| 490-F33-C | Unit 490 2nd floor, southwest bedroom | VFT strips, Vinyl mock hardwood flooring, maple wood | None Detected |
| 357-F34-A | Unit 357 1st floor, living room | VFT strips, Vinyl mock hardwood flooring, honey oak | None Detected |
| 522-F34-D | Unit 522 1st floor, kitchen | VFT strips, Vinyl mock hardwood flooring, honey oak | None Detected |
| 327-F34-B | Unit 327 1st floor, kitchen | VFT strips, Vinyl mock hardwood flooring, honey oak | None Detected |
| 496-F35-A | Unit 496 1st floor, entrance | VSF, mock 4.5"x4.5" ceramic tile, textured white | None Detected |
| 496-F35-B | Unit 496 1st floor, entrance | VSF, mock 4.5"x4.5" ceramic tile, textured white | None Detected |
| 355-F35-A | Unit 355 1st floor, entrance | VSF, mock 4.5"x4.5" ceramic tile, textured white | None Detected |
| 496-F36-A | Unit 496 1st floor, hallway | VFT, mock 12"x12" ceramic tile, white and black with flower | None Detected |
| 496-F36-B | Unit 496 1st floor, hallway | VFT, mock 12"x12" ceramic tile, white and black with flower | None Detected |
| 496-F36-C | Unit 496 1st floor, hallway | VFT, mock 12"x12" ceramic tile, white and black with flower | None Detected |



Table 6.1 Summary of Asbestos Bulk Samples - Vinyl Floor Samples

| Sample Identification | Sample Location | Sample Description | Asbestos Content |
|-----------------------|---|---|------------------|
| 496-F37-A | Unit 496 1st floor, living room | VFT, mock 12"x12" ceramic tile, blue diamond pattern | None Detected |
| 496-F37-B | Unit 496 1st floor, living room | VFT, mock 12"x12" ceramic tile, blue diamond pattern | None Detected |
| 496-F37-C | Unit 496 1st floor, living room | VFT, mock 12"x12" ceramic tile, blue diamond pattern | None Detected |
| 496-F38-A | Unit 496 | VFT, mock 12"x12" ceramic tiles, beige with light streak | None Detected |
| 327-F38-B | Unit 327 basement, northeast bedroom | VFT, mock 12"x12" ceramic tiles, beige with light streak | None Detected |
| 329-F38-C | Unit 329 1.5 floor, landing | VFT, mock 12"x12" ceramic tiles, beige with light streak | None Detected |
| 522-F39-A | Unit 522 2nd floor bathroom | VSF, mock pink and beige textured 9"x9" ceramic tile | None Detected |
| 522-F39-B | Unit 522 2nd floor bathroom | VSF, mock pink and beige textured 9"x9" ceramic tile | None Detected |
| 522-F39-C | Unit 522 2nd floor bathroom | VSF, mock pink and beige textured 9"x9" ceramic tile | None Detected |
| 520-F40-A | Unit 520 1st floor, laundry room | VFT, mock 12"x12" ceramic tile, blue with squares | None Detected |
| 333-F40-B | Unit 333 0.5 floor, entrance | VFT, mock 12"x12" ceramic tile, blue with squares | None Detected |
| 520-F40-C | Unit 520 1st floor, laundry room | VFT, mock 12"x12" ceramic tile, blue with squares | None Detected |
| 520-F41-A | Unit 520 2nd floor, bathroom | VSF, mock 12x12" ceramic tiles, beige with tan | None Detected |
| 520-F41-B | Unit 520 2nd floor, bathroom | VSF, mock 12x12" ceramic tiles, beige with tan | None Detected |
| 520-F41-C | Unit 520 2nd floor, bathroom | VSF, mock 12x12" ceramic tiles, beige with tan | None Detected |
| 520-F42-A | Unit 520 1st floor, laundry room | VFT, mock 12"x12" ceramic tile, beige with center diamond | None Detected |
| 520-F42-B | Unit 520 1st floor, laundry room | VFT, mock 12"x12" ceramic tile, beige with center diamond | None Detected |
| 520-F42-C | Unit 520 1st floor, laundry room | VFT, mock 12"x12" ceramic tile, beige with center diamond | None Detected |
| 510-F43-A | Unit 510 1st floor kitchen | VFT, mock 3-12"x12" ceramic tile, beige and tan textured | None Detected |
| 510-F43-B | Unit 510 1st floor kitchen | VFT, mock 3-12"x12" ceramic tile, beige and tan textured | None Detected |



Table 6.1 Summary of Asbestos Bulk Samples - Vinyl Floor Samples

| Sample Identification | Sample Location | Sample Description | Asbestos Content |
|-----------------------|--|--|------------------|
| 510-F43-C | Unit 510 1st floor kitchen | VFT, mock 3-12"x12" ceramic tile, beige and tan textured | None Detected |
| 524-F44-A | Unit 524 1st floor, kitchen | VSF, mock 9"x9" ceramic tile, beige with streaks | None Detected |
| 524-F44-B | Unit 524 1st floor, kitchen | VSF, mock 9"x9" ceramic tile, beige with streaks | None Detected |
| 524-F44-C | Unit 524 1st floor, kitchen | VSF, mock 9"x9" ceramic tile, beige with streaks | None Detected |
| 355-F45-A | Unit 355 2nd floor, bathroom | VSF, mock 9"x9" ceramic tile, beige and tan textured | None Detected |
| 345-F45-B | Unit 345 2nd floor, bathroom | VSF, mock 9"x9" ceramic tile, beige and tan textured | None Detected |
| 345-F45-D | Unit 345 2nd floor, bathroom | VSF, mock 9"x9" ceramic tile, beige and tan textured | None Detected |
| 524-F46-A | Unit 524 1st floor, entrance | VSF, mock ceramic tile, beige and tan textured | None Detected |
| 524-F46-B | Unit 524 1st floor, entrance | VSF, mock ceramic tile, beige and tan textured | None Detected |
| 524-F46-C | Unit 524 1st floor, entrance | VSF, mock ceramic tile, beige and tan textured | None Detected |
| 339-F47-A | Unit 339 2nd floor, bathroom | VSF, mock 6"x6" ceramic tile, beige and tan | None Detected |
| 339-F47-B | Unit 339 2nd floor, bathroom | VSF, mock 6"x6" ceramic tile, beige and tan | None Detected |
| 524-F47-A | Unit 524 1st floor, bathroom | VSF, mock 6"x6" ceramic tile, beige and tan | None Detected |
| 532-F48-A | Unit 532 2nd floor, northeast bedroom | VFT, 12"x12" with mock 4"x4" pink/beige tiles | None Detected |
| 532-F48-B | Unit 532 2nd floor, northeast bedroom | VFT, 12"x12" with mock 4"x4" pink/beige tiles | None Detected |
| 532-F48-C | Unit 532 2nd floor, northeast bedroom | VFT, 12"x12" with mock 4"x4" pink/beige tiles | None Detected |
| 327-F49-A | Unit 327 0.5 floor, entrance | VSF, mock 12"x12" brown tiles | None Detected |
| 327-F49-B | Unit 327 0.5 floor, entrance | VSF, mock 12"x12" brown tiles | None Detected |
| 327-F49-C | Unit 327 0.5 floor, entrance | VSF, mock 12"x12" brown tiles | None Detected |
| 327-F50-A | Unit 327 | VFT strip, Vinyl mock hardwood maple wood | None Detected |



Table 6.1 Summary of Asbestos Bulk Samples - Vinyl Floor Samples

| Sample Identification | Sample Location | Sample Description | Asbestos Content |
|-----------------------|---|--|---------------------------|
| | 1st floor, living room | | |
| 327-F50-B | Unit 327 1st floor, living room | VFT strip, Vinyl mock hardwood maple wood | None Detected |
| 327-F50-C | Unit 327 1st floor, living room | VFT strip, Vinyl mock hardwood maple wood | None Detected |
| 327-F51-A | Unit 327 2nd floor, bathroom | VSF, mock 12"x12" ceramic tiles with big beige and pink stones | None Detected |
| 327-F51-B | Unit 327 2nd floor, bathroom | VSF, mock 12"x12" ceramic tiles with big beige and pink stones | None Detected |
| 327-F51-C | Unit 327 2nd floor, bathroom | VSF, mock 12"x12" ceramic tiles with big beige and pink stones | None Detected |
| 327-F52-A | Unit 327 Basement southwest bedroom | VFT strip, vinyl mock hardwood floor, brown and beige | None Detected |
| 327-F52-B | Unit 327 Basement southwest bedroom | VFT strip, vinyl mock hardwood floor, brown and beige | None Detected |
| 327-F52-C | Unit 327 Basement southwest bedroom | VFT strip, vinyl mock hardwood floor, brown and beige | None Detected |
| 333-F53-A | Unit 333 1st floor, kitchen | VFT, 12"x12" mock ceramic tile, brown with olive green pattern | None Detected |
| 333-F53-B | Unit 333 1st floor, kitchen | VFT, 12"x12" mock ceramic tile, brown with olive green pattern | None Detected |
| 333-F53-C | Unit 333 1st floor, kitchen | VFT, 12"x12" mock ceramic tile, brown with olive green pattern | None Detected |
| 333-F54-A | Unit 333 2nd floor, bathroom | VSF, 3"x3" mock white tiles with tulip pattern | None Detected |
| 333-F54-B | Unit 333 2nd floor, bathroom | VSF, 3"x3" mock white tiles with tulip pattern | None Detected |
| 333-F54-C | Unit 333 2nd floor, bathroom | VSF, 3"x3" mock white tiles with tulip pattern | None Detected |
| 333-F55-A | Unit 333 Basement, bathroom | VSF, tan and beige pebbles | None Detected |
| 335-F55-B | Unit 335 | VSF, tan and beige pebbles | None Detected |
| 63-F55-B | Unit 63 1st floor, entrance | VSF, tan and beige pebbles | None Detected |
| 335-F56-A | Unit 335 | VFT, 9"x9" dark brown | 6% Chrysotile Asbestos |



Table 6.1 Summary of Asbestos Bulk Samples - Vinyl Floor Samples

| Sample Identification | Sample Location | Sample Description | Asbestos Content |
|-----------------------|------------------------------------|--|--------------------------------|
| | 1.5 level, landing | | |
| 335-F56-B | Unit 335 2nd floor, bathroom | VFT, 9"x9" dark brown | Not Analyzed Stop Positive* |
| 335-F56-C | Unit 335 2nd floor, bathroom | VFT, 9"x9" dark brown | Not Analyzed Stop Positive* |
| 335-F57-A | Unit 335 2nd floor, bathroom | VFT, 12"x12" beige tiles with diamond design | None Detected |
| 335-F57-B | Unit 335 2nd floor, bathroom | VFT, 12"x12" beige tiles with diamond design | None Detected |
| 335-F57-C | Unit 335 2nd floor, bathroom | VFT, 12"x12" beige tiles with diamond design | None Detected |
| 335-F58-A | Unit 335 Basement, laundry room | VFT, mock 12"x12" brown, white and beige tile | None Detected |
| 335-F58-B | Unit 335 Basement, laundry room | VFT, mock 12"x12" brown, white and beige tile | None Detected |
| 335-F58-C | Unit 335 Basement, laundry room | VFT, mock 12"x12" brown, white and beige tile | None Detected |
| 333-F59-A | Unit 333 1st floor, living room | VFT strip, Vinyl mock hardwood flooring, beige with grey | None Detected |
| 333-F59-B | Unit 333 1st floor, living room | VFT strip, Vinyl mock hardwood flooring, beige with grey | None Detected |
| 333-F59-C | Unit 333 1st floor, living room | VFT strip, Vinyl mock hardwood flooring, beige with grey | None Detected |
| 337-F60-A | Unit 337 Staircase | Vinyl stair tread, white | None Detected |
| 337-F60-B | Unit 337 Staircase | Vinyl stair tread, white | None Detected |
| 337-F60-C | Unit 337 Staircase | Vinyl stair tread, white | None Detected |
| 337-F61-A | Unit 337 2nd floor, bathroom | VSF, beige squares and rectangles with blue accent | None Detected |
| 337-F61-B | Unit 337 2nd floor, bathroom | VSF, beige squares and rectangles with blue accent | None Detected |
| 337-F61-C | Unit 337 2nd floor, bathroom | VSF, beige squares and rectangles with blue accent | None Detected |
| 337-F62-A | Unit 337 1.5 floor, landing | VFT, mock 12"x12" ceramic tiles grey blotches | None Detected |
| 337-F62-B | Unit 337 1.5 floor, landing | VFT, mock 12"x12" ceramic tiles grey blotches | None Detected |



Table 6.1 Summary of Asbestos Bulk Samples - Vinyl Floor Samples

| Sample Identification | Sample Location | Sample Description | Asbestos Content |
|-----------------------|--|--|--------------------------------|
| 337-F62-C | Unit 337 1.5 floor, landing | VFT, mock 12"x12" ceramic tiles grey blotches | None Detected |
| 337-F63-A | Unit 337 Basement southeast bedroom | VFT, mock 12"x12" ceramic tiles, blue and white | None Detected |
| 337-F63-B | Unit 337 Basement southeast bedroom | VFT, mock 12"x12" ceramic tiles, blue and white | None Detected |
| 337-F63-C | Unit 337 Basement southeast bedroom | VFT, mock 12"x12" ceramic tiles, blue and white | None Detected |
| 65-F64-A | Unit 65 1st floor, kitchen | VFT, 9"x9", beige with small brown flecks | 5% Chrysotile Asbestos |
| 65-F64-B | Unit 65 1st floor, kitchen | VFT, 9"x9", beige with small brown flecks | Not Analyzed Stop Positive* |
| 65-F64-C | Unit 65 1st floor, kitchen | VFT, 9"x9", beige with small brown flecks | Not Analyzed Stop Positive* |
| 361-F65-A | Unit 361 1st floor, living room | VFT, 12"x12" white with grey flecks | None Detected |
| 361-F65-B | Unit 361 1st floor, living room | VFT, 12"x12" white with grey flecks | None Detected |
| 361-F65-C | Unit 361 1st floor, living room | VFT, 12"x12" white with grey flecks | None Detected |
| 355-F66-A | Unit 355 2nd floor, hallway | VFT, mock 12"x12" ceramic tiles, beige with four squares | None Detected |
| 355-F66-B | Unit 355 2nd floor, hallway | VFT, mock 12"x12" ceramic tiles, beige with four squares | None Detected |
| 355-F66-C | Unit 355 2nd floor, hallway | VFT, mock 12"x12" ceramic tiles, beige with four squares | None Detected |
| 339-F67-A | Unit 339 2nd floor, laundry room | VSF beige with black specks | None Detected |
| 339-F67-B | Unit 339 2nd floor, laundry room | VSF beige with black specks | None Detected |
| 339-F67-C | Unit 339 2nd floor, laundry room | VSF beige with black specks | None Detected |
| 339-F68-A | Unit 339 2nd floor, bedroom | VSF, 12"x12" beige with brown streaks | 2% Chrysotile Asbestos |
| 339-F68-B | Unit 339 2nd floor, bedroom | VSF, 12"x12" beige with brown streaks | Not Analyzed Stop Positive* |
| 339-F68-C | Unit 339 2nd floor, bedroom | VSF, 12"x12" beige with brown streaks | Not Analyzed Stop Positive* |
| 492-F69-A | Unit 492 | VFT strips, Vinyl mock hardwood flooring, maple/oak | None Detected |



Table 6.1 Summary of Asbestos Bulk Samples - Vinyl Floor Samples

| Sample Identification | Sample Location | Sample Description | Asbestos Content |
|-----------------------|------------------------------------|---|------------------|
| | 1st floor, living room | | |
| 492-F69-B | Unit 492 1st floor, living room | VFT strips, Vinyl mock hardwood flooring, maple/oak | None Detected |
| 492-F69-C | Unit 492 1st floor, living room | VFT strips, Vinyl mock hardwood flooring, maple/oak | None Detected |
| 498-F70-A | Unit 498 1st floor, living room | VFT strips, Vinyl mock hardwood floor, cherry brown | None Detected |
| 498-F70-B | Unit 498 1st floor, living room | VFT strips, Vinyl mock hardwood floor, cherry brown | None Detected |
| 498-F70-C | Unit 498 1st floor, living room | VFT strips, Vinyl mock hardwood floor, cherry brown | None Detected |
| 63-F72-A | Unit 63 1st floor, laundry room | VFT, mock 3-12"x12" ceramic tiles, brown | None Detected |
| 63-F72-B | Unit 63 1st floor, laundry room | VFT, mock 3-12"x12" ceramic tiles, brown | None Detected |
| 63-F72-C | Unit 63 1st floor, laundry room | VFT, mock 3-12"x12" ceramic tiles, brown | None Detected |
| 83-F73-A | Unit 83 1st floor, kitchen | VFT, mock 3-12"x12" ceramic tiles, brown | None Detected |
| 83-F73-B | Unit 83 1st floor, kitchen | VFT, mock 3-12"x12" ceramic tiles, brown | None Detected |
| 83-F73-C | Unit 83 1st floor, kitchen | VFT, mock 3-12"x12" ceramic tiles, brown | None Detected |
| 524-F74-A | Unit 524 1st floor, entrance | VSF, 9"x9" mock ceramic tiles brown | None Detected |
| 524-F74-B | Unit 524 1st floor, entrance | VSF, 9"x9" mock ceramic tiles brown | None Detected |
| 524-F74-C | Unit 524 1st floor, entrance | VSF, 9"x9" mock ceramic tiles brown | None Detected |
| 492-F75-A | Unit 492 2nd floor, bathroom | VSF, mock 12"x12" ceramic tile, dark brown and beige | None Detected |
| 492-F75-B | Unit 492 2nd floor, bathroom | VSF, mock 12"x12" ceramic tile, dark brown and beige | None Detected |
| 492-F75-C | Unit 492 2nd floor, bathroom | VSF, mock 12"x12" ceramic tile, dark brown and beige | None Detected |
| 486-F77-A | Unit 486 2nd floor, bathroom | VSF, mock 12"x12" ceramic tile, textured dark beige | None Detected |
| 486-F77-B | Unit 486 2nd floor, bathroom | VSF, mock 12"x12" ceramic tile, textured dark beige | None Detected |
| 486-F77-C | Unit 486 2nd floor, bathroom | VSF, mock 12"x12" ceramic tile, textured dark beige | None Detected |



Table 6.1 Summary of Asbestos Bulk Samples - Vinyl Floor Samples

| Sample Identification | Sample Location | Sample Description | Asbestos Content |
|--|--------------------------------|--|------------------|
| 500-F78-A | Unit 500 1st floor, kitchen | VSF, mock 12"x12" ceramic tile dark tan | None Detected |
| 500-F78-B | Unit 500 1st floor, kitchen | VSF, mock 12"x12" ceramic tile dark tan | None Detected |
| 500-F78-C | Unit 500 1st floor, kitchen | VSF, mock 12"x12" ceramic tile dark tan | None 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 | | | |

Table 6.2 Summary of Asbestos Bulk Samples – Building Materials

| Sample Identification | Sample Location | Sample Description | Asbestos Content |
|-----------------------|--|------------------------|--------------------------------|
| 490-C2-A | Unit 490 2nd floor, southwest bedroom | Stipple ceiling | None Detected |
| 490-C2-B | Unit 490 2nd floor, southwest bedroom | Stipple ceiling | None Detected |
| 490-C2-C | Unit 490 2nd floor, southwest bedroom | Stipple ceiling | None Detected |
| 1-828-W1-B | Unit 828 2nd floor, northeast bedroom | Drywall Joint Compound | 1% Chrysotile Asbestos |
| 1-820-W1-A | Unit 820 2nd floor, northeast bedroom | Drywall Joint Compound | Not Analyzed Stop Positive* |
| 2-305-W1-F | Unit 305 2nd floor, northwest bedroom | Drywall Joint Compound | Not Analyzed Stop Positive* |
| 2-319-W1-J | Unit 319 1st floor, hallway | Drywall Joint Compound | Not Analyzed Stop Positive* |
| 3-345-W1-K | Unit 345 2nd floor, bedroom | Drywall Joint Compound | Not Analyzed Stop Positive* |
| 3-353-W1-H | Unit 353 1st floor, living room | Drywall Joint Compound | Not Analyzed Stop Positive* |
| 4-311-W1-H | Unit 311 1st floor, living room | Drywall Joint Compound | Not Analyzed Stop Positive* |
| 4-323-W1-K | Unit 323 1st floor, hallway | Drywall Joint Compound | Not Analyzed Stop Positive* |
| 5-500-W1-N | Unit 500 1st floor, living room | Drywall Joint Compound | Not Analyzed Stop Positive* |
| 5-492-W1-S | Unit 492 1st floor, living room | Drywall Joint Compound | 1% Chrysotile Asbestos |



Table 6.2 Summary of Asbestos Bulk Samples – Building Materials

| Sample Identification | Sample Location | Sample Description | Asbestos Content |
|-----------------------|--|------------------------|--------------------------------|
| 6-496-W1-R | Unit 496 1st floor, living room | Drywall Joint Compound | Not Analyzed Stop Positive* |
| 6-488-W1-Q | Unit 488 1st floor, living room | Drywall Joint Compound | Not Analyzed Stop Positive* |
| 7-520-W1-T | Unit 520 1st floor, hallway | Drywall Joint Compound | Not Analyzed Stop Positive* |
| 7-510-W1-Y | Unit 510 1st floor, living room | Drywall Joint Compound | Not Analyzed Stop Positive* |
| 8-538-W1-A | Unit 538 1st floor, living room | Drywall Joint Compound | Not Analyzed Stop Positive* |
| 8-59-W1-D | Unit 59 2nd floor, bedroom | Drywall Joint Compound | Not Analyzed Stop Positive* |
| 9-63-W1-DD | Unit 63 1st floor, laundry room | Drywall Joint Compound | Not Analyzed Stop Positive* |
| 9-71-W1-KK | Unit 71 1st floor, kitchen | Drywall Joint Compound | Not Analyzed Stop Positive* |
| 10-83-W1-II | Unit 83 1st floor, living room | Drywall Joint Compound | Not Analyzed Stop Positive* |
| 10-81-W1-HH | Unit 81 1st floor, living room | Drywall Joint Compound | Not Analyzed Stop Positive* |
| 538-W3-A | Unit 538 1st floor, living room | Exterior gypsum board | None Detected |
| 490-W3-H | Unit 490 1st floor, living room | Exterior gypsum board | None Detected |
| 341-W3-D | Unit 341 2nd floor, northeast bedroom | Exterior gypsum board | None Detected |
| E73-W4-A | Unit 73 | Exterior pointing | None Detected |
| E365-W4-B | Unit 365 | Exterior pointing | None Detected |
| E305-W4-B | Unit 305 | Exterior pointing | None Detected |
| E486-W4-A | Unit 486 | Exterior pointing | None Detected |
| E492-W4-B | Unit 492 | Exterior pointing | None Detected |
| E498-W4-A | Unit 498 | Exterior pointing | None Detected |
| E502-W5-B | Unit 502 | Concrete wall parge | None Detected |
| E83-W5-A | Unit 83 | Concrete wall parge | None Detected |
| E305-W5-B | Unit 305 | Concrete wall parge | None Detected |
| 526-M1-Y | Unit 526 1st floor, living room | Black tar paper | None Detected |
| 828-M1-B | Unit 828 2nd floor, southwest bedroom | Black tar paper | None Detected |
| 325-M1-K | Unit 325 2nd floor, southeast bedroom | Black tar paper | None Detected |



Table 6.2 Summary of Asbestos Bulk Samples – Building Materials

| Sample Identification | Sample Location | Sample Description | Asbestos Content |
|-----------------------|-------------------------------------|--|--------------------------------|
| 820-M2-A | Unit 820 Crawl space | Black tar on styrofoam | 10% Chrysotile Asbestos |
| 323-M2-B | Unit 323 Crawl space | Black tar on styrofoam | Not Analyzed Stop Positive* |
| 496-M2-B | Unit 496 Crawl space | Black tar on styrofoam | Not Analyzed Stop Positive* |
| 327-M3-A | Unit 327 | Concrete parge | None Detected |
| 327-M3-B | Unit 327 | Concrete parge | None Detected |
| 327-M3-C | Unit 327 | Concrete parge | None Detected |
| 337-M4-A | Unit 337 Basement, bedroom | Cellulose paper wrap | 5% Chrysotile Asbestos |
| 355-M4-B | Unit 355 1st floor, laundry room | Cellulose paper wrap | Not Analyzed Stop Positive* |
| 355-M4-C | Unit 355 1st floor, laundry room | Cellulose paper wrap | Not Analyzed Stop Positive* |
| 67-M5-A | Unit 67 1st floor, entrance | Vermiculite | 1% Tremolite Asbestos |
| 67-M5-B | Unit 67 1st floor, entrance | Vermiculite | Not Analyzed Stop Positive* |
| 67-M5-C | Unit 67 1st floor, entrance | Vermiculite | Not Analyzed Stop Positive* |
| 355-M6-A | Unit 355 1st floor, laundry room | Cement elbow | 35% Chrysotile Asbestos |
| 355-M6-B | Unit 355 1st floor, laundry room | Cement elbow | Not Analyzed Stop Positive* |
| 355-M6-C | Unit 355 1st floor, laundry room | Cement elbow | Not Analyzed Stop Positive* |
| E65-M11 | Unit 65 | Malleable White caulking (windows and doors) | None Detected |
| E504-M11-E | Unit 504 | Malleable White caulking (windows and doors) | None Detected |
| E337-M11 | Unit 337 | Malleable White caulking (windows and doors) | 1% Chrysotile Asbestos |
| E542-M12 | Unit 542 | Hard White caulking (decorative concrete parge) | None Detected |
| E534-M12 | Unit 534 | Hard White caulking | None Detected |
| E820-M12 | Unit 820 | (decorative concrete parge) | None Detected |



Table 6.2 Summary of Asbestos Bulk Samples – Building Materials

| Sample Identification | Sample Location | Sample Description | Asbestos Content |
|--|-----------------|--------------------|------------------|
| Notes: Minimum Detection Limit (MDL) of the analytical method, 0.5 percent. *Indicates an asbestos content of 0.5 percent or greater | | | |

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:

- W1/Drywall Joint Compound | Friable, white colored drywall joint compound found on walls and ceilings in units 828 and 492. This material was identified to contain Chrysotile asbestos at concentrations above 0.5 percent.

Visually similar material was identified in all units in all buildings, accordingly, all drywall joint compound (approximately 21,000 m²) is assumed to be ACM. The material was generally in good condition.
- F32/Vinyl Floor Tile | Non-friable vinyl floor tile (9"x9", olive with white flecks) submitted from Unit 488 were identified to contain Chrysotile asbestos at concentrations above 0.5 percent.

Visually similar flooring was identified in unit 492 (closet), unit 524 (closet) and unit 329 (stairs landing); all (approximately 50 m²) visually similar materials should be treated as ACM.
- F56/Vinyl Floor Tile | Non-friable vinyl floor tile (9"x9", dark brown) submitted from Unit 355 (stair landing) were identified to contain Chrysotile asbestos at concentrations above 0.5 percent.

Visually similar flooring was identified in unit 355 (bathroom); all (approximately 15 m²) visually similar materials should be treated as ACM.
- F64/Vinyl Floor Tile | Non-friable vinyl floor tile (9"x9", beige with small brown flecks) submitted from Unit 65 (kitchen) (approximately 35 m²) were identified to contain Chrysotile asbestos at concentrations above 0.5 percent. No visually similar flooring was identified in any other units.
- F68/Vinyl Floor Tile | Non-friable vinyl floor tile (12"x12", beige with brown streaks) submitted from Unit 339 (entire second floor, approximately 70 m²) were identified to contain Chrysotile asbestos at concentrations above 0.5 percent. No visually similar flooring was identified in any other units.
- M2/Tar seal on foundation walls | Non-Friable black tar was present in the crawlspaces, 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 units in all buildings, accordingly, all (approximately 2500 m²) black tar on foundation walls and on white Styrofoam panels is assumed to be ACM. The material was generally in good condition.
- M4/Cellulose Pipe Wrap | Non-Friable pipe wrap pipe insulation was identified in a pipe on the 1st level of Unit 355 (laundry room). Visually similar material was identified in Unit 337 (basement bedroom). There was approximately 6 meters (m) of this material, and the material was identified to contain Chrysotile asbestos at concentrations above 0.5 percent.



- M5 / Vermiculite | Vermiculite was identified as insulation around a pipe in the entrance of Unit 67. The vermiculite was identified to contain Tremolite asbestos at concentrations above 0.5 percent. The Client should treat all vermiculite found at the Site as ACM.
- M6 / Cement Elbow | 3 cement elbows submitted from Unit 355 (laundry room) were identified to contain Chrysotile asbestos at concentrations above 0.5 percent. The Client should treat all cement elbows found at the Site as ACM.
- M11 / White exterior caulking | While the submitted samples of the exterior caulking around the windows and doors from Unit 504 and Unit 65 were determined to not contain asbestos, a visually similar sample collected from Unit 337 was identified to contain Chrysotile asbestos at concentrations above 0.5 percent. Accordingly, the Client should treat all white caulking found at the Site (approximately 3200 m) 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 when aggressive activities such as sanding, cutting, and hot work are not conducted on painted materials. However, demolition activities are considered to be an 'aggressive activity'.

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/m³) 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 50 paint samples collected from the walls and ceilings found in the Work Area. With only minor exceptions, the painted surfaces were 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 Ottawa, 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, Conservation and Parks (MECP) 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 # 1924228) are provided in Appendix C.

Table 7.1 Summary of Lead in Paint Chip Samples

| Sample Identification | Sample Locations | Sample Descriptions | Lead Concentration (ug/g or ppm) |
|-----------------------|---|---------------------|----------------------------------|
| 828-W-P1-cream | Unit 828 - 2nd floor Hallway closet paint | Cream paint | 127 |
| 301-W-P2-White | Unit 301 - 2nd floor Southwest bedroom paint | White paint | 154 |
| 305-W-P3-brown | Unit 305 - 2nd floor Northwest bedroom paint | Brown paint | <20 |
| 59-WP4-beige | Unit 59 - 2nd floor Bedroom paint | Beige paint | 89 |
| 311-W-P5-white | Unit 311 - 1st floor Northwest bedroom paint | White paint | <20 |
| 315-W-P6-beige | Unit 315 - 1st floor Kitchen paint | Beige paint | 207 |
| 315-W-P7-white | Unit 315 - 1st floor Living room paint | White paint | <20 |
| 319-W-P8-eggshell | Unit 319 - 1st floor Living room paint | Eggshell paint | 164 |
| 319-W-P9-Green | Unit 319 - 2nd floor Northwest bedroom paint | Green paint | <20 |
| 319-W-P10-beige | Unit 319 - 2nd floor Northwest bedroom paint | Beige paint | 289 |
| 319-W-P11-purple | Unit 319 - 2nd floor Southwest bedroom paint | Purple paint | <20 |
| M8-W-P12-beige | Mechanical Room #8 paint | Beige paint | <20 |
| 325-W-P13-beige | Unit 325 - 1st floor Living room paint | Beige paint | <20 |
| 325-W-P14-blue grey | Unit 325 - 1st floor Living room paint | Blue / grey paint | <20 |
| 498-W-P13 white | Unit 498 – 1st floor Kitchen paint | 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) |
|-----------------------|---|---------------------|----------------------------------|
| 498-W-P16-bright blue | Unit 498- 2nd floor Bathroom paint | Bright blue paint | <20 |
| 486-W-P17-bright blue | Unit 486 - 2nd floor Southwest bedroom paint | Bright blue paint | 100 |
| 488-W-P18-beige | Unit 488 - 2nd floor Northeast bedroom paint | Beige paint | 289 |
| 490-W-P19-baby blue | Unit 490 - 1st floor Living room paint | Baby blue paint | 172 |
| 490-W-P20-blue grey | Unit 490 - 2nd floor Southwest bedroom paint | Blue grey paint | <20 |
| 496-W-P21-beige | Unit 496 - 2nd floor Bedroom paint | Beige paint | 164 |
| 518-W-P22-brown | Unit 518 - 2nd floor Hallway paint | Brown paint | <20 |
| 516-W-P23-purple | Unit 516 - 2nd floor Southwest bedroom paint | Purple paint | <20 |
| 516-W-P24-blue | Unit 516 - 2nd floor Northeast bedroom paint | Blue paint | 325 |
| 512-W-P25-eggshell | Unit 512 - 1st floor Hallway paint | Eggshell paint | <20 |
| 510-W-P26-white | Unit 510 - 2nd floor Northeast bedroom | White paint | <20 |
| 524-W-P27-brown | Unit 524 - 1st floor Living room paint | Brown paint | <20 |
| 526-W-P28-white | Unit 526 - 1st floor Living room paint | White paint | 333 |
| 532-W-P29-eggshell | Unit 532 - 1st floor Laundry room paint | Eggshell paint | 155 |
| 532-W-P31-purple | Unit 532 - 2nd floor Northeast bedroom | Purple paint | 235 |
| 534-W-P32-beige | Unit 534 - 2nd floor Southeast bedroom | Beige paint | 80 |
| 327-W-P33-white | Unit 327 - 1st floor Living room paint | White paint | <20 |
| 329-W-P34-beige | Unit 329 - 1st floor Living room paint | Beige paint | 283 |
| 333-W-P35-beige | Unit 333 - 2nd floor Bedroom paint | Beige paint | 112 |
| 335-W-P36-beige | Unit 335 - 1st floor Living room paint | Beige paint | 345 |



Table 7.1 Summary of Lead in Paint Chip Samples

| Sample Identification | Sample Locations | Sample Descriptions | Lead Concentration (ug/g or ppm) |
|---|---|---------------------|----------------------------------|
| 337-W-P37-grey | Unit 337 - 1st floor Living room paint | Grey paint | <20 |
| 81-W-P37-grey | unit 81 - 2nd floor Northwest bedroom paint | Grey paint | <20 |
| 83-W-P38-grey | Unit 83 - 1st floor Living room paint | Grey paint | <20 |
| 71-T-P39-green | Unit 71 - 2nd floor Northeast bedroom paint | Green paint | 410 |
| 65-W-P40-white | Unit 65 - 1st floor Kitchen paint | White paint | 187 |
| 63-C-P41-white | Unit 63 - 1st floor Kitchen ceiling paint | White paint | 180 |
| 542-W-P3-white | Unit 542 - 1st floor Living room paint | White paint | 396 |
| 361-W-P5-blue | Unit 361 - 2nd floor Northeast bedroom paint | Blue paint | <20 |
| 359-W-P6-pink | Unit 359 - 2nd floor Northeast bedroom paint | Pink paint | 35 |
| 359-W-P7-blue | Unit 359 - 2nd floor Southwest bedroom paint | Blue paint | <20 |
| 355-W-P8-white | Unit 355 - 1st floor Living room paint | White paint | 124 |
| 355-W-P9-yellow | Unit 355 - 1st floor Kitchen paint | Yellow paint | <20 |
| 353-W-P10-beige | Unit 353 - 1st floor Living room paint | Beige paint | <30 |
| 351-W-P11-white | Unit 351 - 1st floor Living room paint | White paint | <20 |
| 486-W-P18-tan | Unit 486 - 1st floor Living room paint | Tan paint | <20 |
| Notes: ug/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 | | | |

All 50 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 50 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.



There were 21 of 50 submitted paint samples containing lead between 90 ppm and 1,000 ppm, as such these samples are considered to be low-level lead-containing paints.

There were 29 of 50 submitted paint samples containing 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:
 - W1/Drywall Joint Compound | Friable, white colored drywall joint compound found on walls and ceilings in the building. Visually similar material was identified in all units in all buildings, accordingly, all drywall joint compound is assumed to be ACM. The material was generally in good condition.
 - F32/Vinyl Floor Tile | Non-friable vinyl floor tile (9" x 9", olive with white flecks) submitted from Unit 488. Visually similar flooring was identified in unit 492 (closet), unit 524 (closet) and unit 329 (stairs landing); these visually similar materials should also be treated as ACM.
 - F56/Vinyl Floor Tile | Non-friable vinyl floor tile (9" x 9", dark brown) submitted from Unit 355 (stair landing). No visually similar flooring was identified in any other units.
 - F64/Vinyl Floor Tile | Non-friable vinyl floor tile (9" x 9", beige with small brown flecks) submitted from Unit 65 (kitchen). No visually similar flooring was identified in any other units.
 - F68/Vinyl Floor Tile | Non-friable vinyl floor tile (12" x 12", beige with brown streaks) submitted from Unit 339 (2nd floor). No visually similar flooring was identified in any other units.
 - M2/Tar seal on foundation walls | Non-Friable black tar was present in the crawlspaces, used to affix Styrofoam panels to the concrete block walls, and as damp proofing on the interior of the block walls. Visually similar material was identified in all units in all buildings, accordingly, all black tar on exterior walls and on white Styrofoam panels is assumed to be ACM. The material was generally in good condition.



- M4/Cellulose Pipe Wrap | Non-Friable pipe wrap pipe insulation was identified on pipes in Unit 355 (1st floor laundry). There was approximately 5 meters (m) of this material. Approximately 3 m of a visually similar material was identified in Unit 337 (basement bedroom).
- M5/Vermiculite | Vermiculite was identified as insulation around a pipe in the entrance of Unit 67. The vermiculite was identified to contain Tremolite asbestos at concentrations above 0.5 percent. The Client should treat all vermiculite found at the Site as ACM.
- M6/Cement Elbow | Three cement elbows submitted from Unit 355 (laundry room). The Client should treat all cement elbows found at the Site as ACM.
- M11/White exterior caulking | While the submitted samples of the exterior caulking around the windows and doors from Unit 504 and Unit 65 were determined to not contain asbestos, a visually similar sample collected from Unit 337 was identified to contain Chrysotile asbestos at concentrations above 0.5 percent. Accordingly, the Client should treat all white caulking found at the Site as ACM.

A contractor, certified for asbestos abatement, should be retained to complete asbestos abatement services prior to demolition of the buildings. Handling and disposal of all ACM should be conducted in accordance with O. Reg. 278/05.

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. If hidden materials that may be potential ACM are discovered during maintenance, further inspection, 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. There were 21 of 50 submitted paint samples containing 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 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 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 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 during renovation or demolition. The Guideline for Silica on Construction Projects (MOL, April 2011) should be used to develop appropriate procedures to implement during maintenance 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.

9. Limitations

The field work component of the DS Survey was conducted by GHD on June 5 through 7, 2019. 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. It is however a random sampling, and there may be hazardous building materials present in areas that were not inspected.

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,

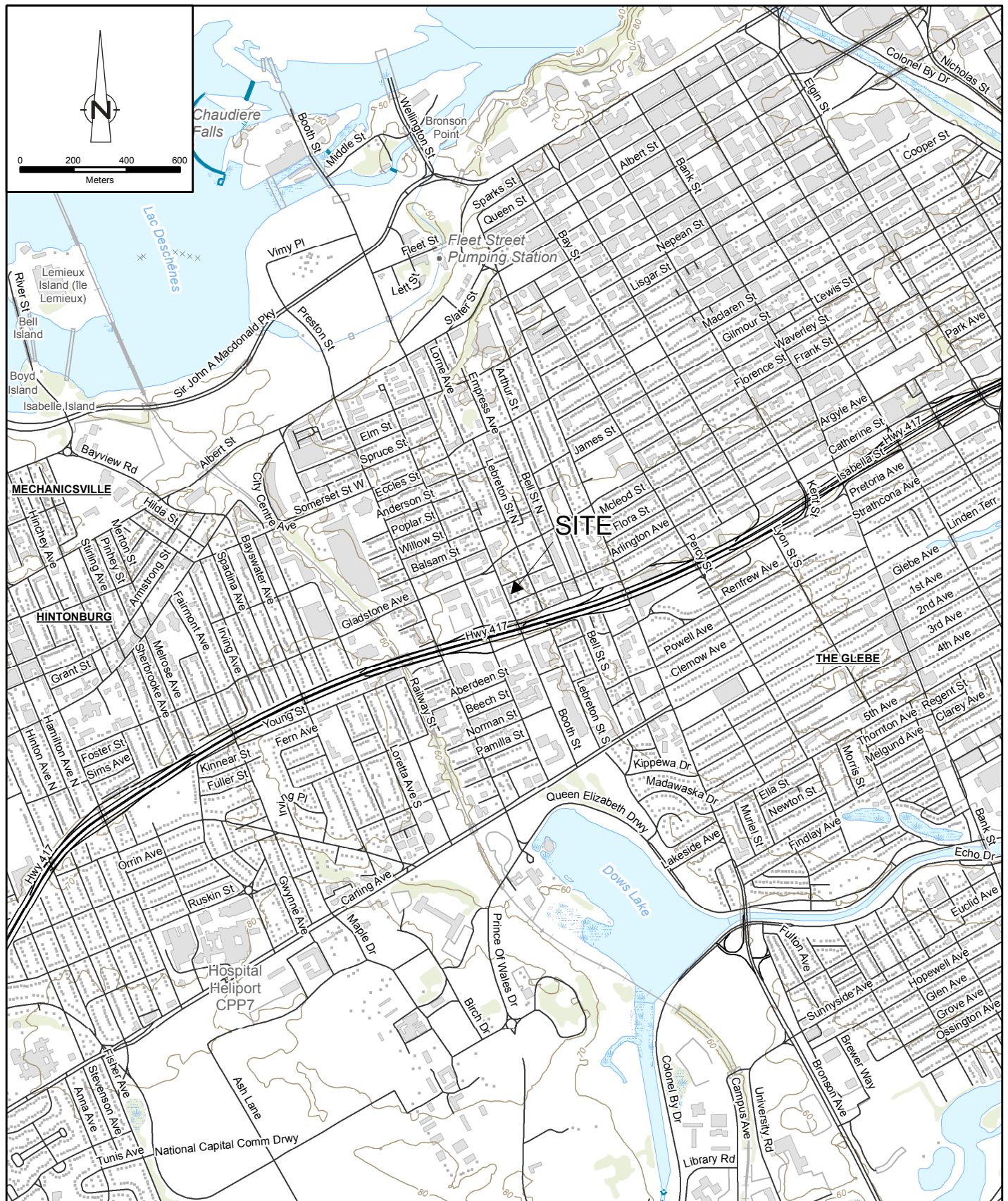
GHD

A handwritten signature in black ink that reads "S Wallis". The signature is written in a cursive, flowing style.

Scott Wallis, B. Sc.

A handwritten signature in blue ink that reads "Kevin Emerson". The signature is written in a cursive, flowing style.

(for)
Luke Lopers, P. Eng.



Source: MNRF NRVIS, 2018. Produced by GHD under licence from Ontario Ministry of Natural Resources and Forestry, © Queen's Printer 2019.
Coordinate System: NAD 1983 UTM Zone 18N



OTTAWA COMMUNITY HOUSING CORPORATION
818 GLADSTONE COMPLEX, OTTAWA, ONTARIO
DESIGNATED SUBSTANCE SURVEY

11196110-E4
Jun 26, 2019

SITE LOCATION MAP

FIGURE 1



Source: Image ©2019 Google, Imagery date: 2018/06/08

0 15 30 45
Meters

Coordinate System:
NAD 1983 UTM Zone 18N



OTTAWA COMMUNITY HOUSING CORPORATION
818 GLADSTONE COMPLEX, OTTAWA, ONTARIO
DESIGNATED SUBSTANCE SURVEY

SITE PLAN

11196110-E4
Jun 26, 2019

FIGURE 2

Appendices

Appendix A

Site Photographs

Appendix A Site Photographs

Submitted as separate file

Appendix B

Analytical Laboratory Reports - Asbestos

Certificate of Analysis

GHD Limited (Ottawa)

179 Colonnade Road Suite 400
Ottawa, ON K0A 2W0
Attn: Zoe Jeaurond

Client PO: 73516118
Project: 11196110-E4
Custody:

Report Date: 19-Jun-2019
Order Date: 11-Jun-2019

Order #: 1924394

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

| Paracel ID | Client ID |
|------------|-----------|
| 1924394-01 | 538-F2-A |
| 1924394-02 | 65-F2-G |
| 1924394-03 | 488-F2-D |
| 1924394-04 | 498-F3-G |
| 1924394-05 | 83-F3-M |
| 1924394-06 | 820-F3-A |
| 1924394-07 | 828-F4-A |
| 1924394-08 | 518-F4-K |
| 1924394-09 | 357-F4-A |
| 1924394-10 | 828-F5-A |
| 1924394-11 | 828-F5-B |
| 1924394-12 | 828-F5-C |
| 1924394-13 | 492-F6-H |
| 1924394-14 | 828-F6-A |
| 1924394-15 | 532-F6-I |
| 1924394-16 | 329-F7-E |
| 1924394-17 | 498-F7-B |
| 1924394-18 | 526-F7-C |
| 1924394-19 | 301-F8-A |
| 1924394-20 | 301-F8-B |
| 1924394-21 | 301-F8-C |
| 1924394-22 | 518-F9-G |
| 1924394-23 | 305-F9-B |
| 1924394-24 | 488-F9-O |
| 1924394-25 | 305-F10-A |
| 1924394-26 | 305-F10-B |

Approved By:



Emma Diaz
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.

Certificate of Analysis

Client: GHD Limited (Ottawa)

Client PO: 73516118

Report Date: 19-Jun-2019

Order Date: 11-Jun-2019

Project Description: 11196110-E4

| | |
|------------|-----------|
| 1924394-27 | 305-F10-C |
| 1924394-28 | 514-F11-B |
| 1924394-29 | 83-F11-C |
| 1924394-30 | 305-F11-A |
| 1924394-31 | 323-F12-D |
| 1924394-32 | 329-F12-J |
| 1924394-33 | 540-F12-B |
| 1924394-34 | 486-F13-H |
| 1924394-35 | 319-F13-B |
| 1924394-36 | 339-F13-K |
| 1924394-37 | 63-F14-C |
| 1924394-38 | 311-F14-A |
| 1924394-39 | 359-F14-A |
| 1924394-40 | 311-F15-A |
| 1924394-41 | 311-F15-B |
| 1924394-42 | 311-F15-C |
| 1924394-43 | 81-F16-F |
| 1924394-44 | 520-F16-C |
| 1924394-45 | 315-F16-A |
| 1924394-46 | 315-F17-A |
| 1924394-47 | 315-F17-B |
| 1924394-48 | 315-F17-C |
| 1924394-49 | 319-F18-A |
| 1924394-50 | 319-F18-B |
| 1924394-51 | 319-F18-C |
| 1924394-52 | 323-F20-A |
| 1924394-53 | 323-F20-B |
| 1924394-54 | 323-F20-C |
| 1924394-55 | 325-F21-B |
| 1924394-56 | 490-F21-C |
| 1924394-57 | 81-F21-D |
| 1924394-58 | 325-F22-A |
| 1924394-59 | 339-F22-A |
| 1924394-60 | 492-F22-B |
| 1924394-61 | 325-F23-A |
| 1924394-62 | 325-F23-B |
| 1924394-63 | 325-F23-C |
| 1924394-64 | 510-F24-G |
| 1924394-65 | 325-F24-A |
| 1924394-66 | 506-F24-E |
| 1924394-67 | 532-F25-C |
| 1924394-68 | 532-F25-E |
| 1924394-69 | 532-F25-A |
| 1924394-70 | 500-F27-B |

Certificate of Analysis

Client: GHD Limited (Ottawa)

Client PO: 73516118

Report Date: 19-Jun-2019

Order Date: 11-Jun-2019

Project Description: 11196110-E4

| | |
|------------|-----------|
| 1924394-71 | 500-F27-A |
| 1924394-72 | 500-F27-C |
| 1924394-73 | 500-F28-A |
| 1924394-74 | 500-F28-B |
| 1924394-75 | 500-F28-C |
| 1924394-76 | 534-F29-A |
| 1924394-77 | 534-F29-B |
| 1924394-78 | 534-F29-C |
| 1924394-79 | 502-F30-A |
| 1924394-80 | 514-F30-B |
| 1924394-81 | 510-F30-C |
| 1924394-82 | 488-F32-B |
| 1924394-83 | 524-F32-D |
| 1924394-84 | 329-F32-E |
| 1924394-85 | 490-F33-A |
| 1924394-86 | 490-F33-B |
| 1924394-87 | 490-F33-C |
| 1924394-88 | 357-F34-A |
| 1924394-89 | 522-F34-D |
| 1924394-90 | 327-F34-B |
| 1924394-91 | 496-F35-B |
| 1924394-92 | 496-F35-A |
| 1924394-93 | 355-F35-A |
| 1924394-94 | 496-F36-A |
| 1924394-95 | 496-F36-B |
| 1924394-96 | 496-F36-C |
| 1924394-97 | 496-F37-A |
| 1924394-98 | 496-F37-B |
| 1924394-99 | 496-F37-C |
| 1924394-AA | 496-F38-A |
| 1924394-AB | 327-F38-B |
| 1924394-AC | 329-F38-C |
| 1924394-AD | 522-F39-A |
| 1924394-AE | 522-F39-B |
| 1924394-AF | 522-F39-C |
| 1924394-AG | 520-F40-A |
| 1924394-AH | 333-F40-B |
| 1924394-AI | 520-F40-C |
| 1924394-AJ | 520-F41-A |
| 1924394-AK | 520-F41-B |
| 1924394-AL | 520-F41-C |
| 1924394-AM | 520-F42-A |
| 1924394-AN | 520-F42-B |
| 1924394-AO | 520-F42-C |

Certificate of Analysis

Client: GHD Limited (Ottawa)

Client PO: 73516118

Report Date: 19-Jun-2019

Order Date: 11-Jun-2019

Project Description: 11196110-E4

| | |
|------------|-----------|
| 1924394-AP | 510-F43-A |
| 1924394-AQ | 510-F43-B |
| 1924394-AR | 510-F43-C |
| 1924394-AS | 524-F44-A |
| 1924394-AT | 524-F44-B |
| 1924394-AU | 524-F44-C |
| 1924394-AV | 355-F45-A |
| 1924394-AW | 345-F45-B |
| 1924394-AX | 345-F45-D |
| 1924394-AY | 524-F46-A |
| 1924394-AZ | 524-F46-B |
| 1924394-BA | 524-F46-C |
| 1924394-BB | 339-F47-A |
| 1924394-BC | 339-F47-B |
| 1924394-BD | 524-F47-A |
| 1924394-BE | 532-F48-A |
| 1924394-BF | 532-F48-B |
| 1924394-BG | 532-F48-C |
| 1924394-BH | 327-F49-A |
| 1924394-BI | 327-F49-B |
| 1924394-BJ | 327-F49-C |
| 1924394-BK | 327-F50-A |
| 1924394-BL | 327-F50-B |
| 1924394-BM | 327-F50-C |
| 1924394-BN | 327-F51-A |
| 1924394-BO | 327-F51-B |
| 1924394-BP | 327-F51-C |
| 1924394-BQ | 327-F52-A |
| 1924394-BR | 327-F52-B |
| 1924394-BS | 327-F52-C |
| 1924394-BT | 333-F53-A |
| 1924394-BU | 333-F53-B |
| 1924394-BV | 333-F53-C |
| 1924394-BW | 333-F54-A |
| 1924394-BX | 333-F54-B |
| 1924394-BY | 333-F54-C |
| 1924394-BZ | 333-F55-A |
| 1924394-CA | 335-F55-B |
| 1924394-CB | 63-F55-B |
| 1924394-CC | 335-F56-A |
| 1924394-CD | 335-F56-B |
| 1924394-CE | 335-F56-C |
| 1924394-CF | 335-F57-A |
| 1924394-CG | 335-F57-B |

Certificate of Analysis

Client: GHD Limited (Ottawa)

Client PO: 73516118

Report Date: 19-Jun-2019

Order Date: 11-Jun-2019

Project Description: 11196110-E4

| | |
|------------|-----------|
| 1924394-CH | 335-F37-C |
| 1924394-CI | 335-F58-A |
| 1924394-CJ | 335-F58-B |
| 1924394-CK | 335-F58-C |
| 1924394-CL | 333-F59-A |
| 1924394-CM | 333-F59-B |
| 1924394-CN | 333-F59-C |
| 1924394-CO | 337-F60-A |
| 1924394-CP | 337-F60-B |
| 1924394-CQ | 337-F60-C |
| 1924394-CR | 337-F61-A |
| 1924394-CS | 337-F61-B |
| 1924394-CT | 337-F61-C |
| 1924394-CU | 337-F62-A |
| 1924394-CV | 337-F62-B |
| 1924394-CW | 337-F62-C |
| 1924394-CX | 337-F63-A |
| 1924394-CY | 337-F63-B |
| 1924394-CZ | 337-F63-C |
| 1924394-DA | 65-F64-A |
| 1924394-DB | 65-F64-B |
| 1924394-DC | 65-F64-C |
| 1924394-DD | 361-F65-A |
| 1924394-DE | 361-F65-B |
| 1924394-DF | 361-F65-C |
| 1924394-DG | 355-F66-A |
| 1924394-DH | 355-F66-B |
| 1924394-DI | 355-F66-C |
| 1924394-DJ | 339-F67-A |
| 1924394-DK | 339-F67-B |
| 1924394-DL | 339-F67-C |
| 1924394-DM | 339-F68-A |
| 1924394-DN | 339-F68-B |
| 1924394-DO | 339-F68-C |
| 1924394-DP | 492-F69-A |
| 1924394-DQ | 492-F69-B |
| 1924394-DR | 492-F69-C |
| 1924394-DS | 498-F70-A |
| 1924394-DT | 498-F70-B |
| 1924394-DU | 498-F70-C |
| 1924394-DV | 63-F72-A |
| 1924394-DW | 63-F72-B |
| 1924394-DX | 63-F72-C |
| 1924394-DY | 83-F73-A |

Certificate of Analysis

Client: GHD Limited (Ottawa)

Client PO: 73516118

Report Date: 19-Jun-2019

Order Date: 11-Jun-2019

Project Description: 11196110-E4

| | |
|------------|-----------|
| 1924394-DZ | 83-F73-B |
| 1924394-EA | 83-F73-C |
| 1924394-EB | 524-F74-A |
| 1924394-EC | 524-F74-B |
| 1924394-ED | 524-F74-C |
| 1924394-EE | 492-F75-A |
| 1924394-EF | 492-F75-B |
| 1924394-EG | 492-F75-C |
| 1924394-EH | 486-F77-A |
| 1924394-EI | 486-F77-B |
| 1924394-EJ | 486-F77-C |
| 1924394-EK | 500-F78-A |
| 1924394-EL | 500-F78-B |
| 1924394-EM | 500-F78-C |
| 1924394-EN | 526-M1-Y |
| 1924394-EO | 828-M1-B |
| 1924394-EP | 325-M1-K |
| 1924394-EQ | 538-W3-A |
| 1924394-ER | 490-W3-H |
| 1924394-ES | 341-W3-D |
| 1924394-ET | 355-M6-A |
| 1924394-EU | 355-M6-B |
| 1924394-EV | 355-M6-C |
| 1924394-EW | 337-M4-A |
| 1924394-EX | 355-M4-B |
| 1924394-EY | 355-M4-C |
| 1924394-EZ | 67-M5-A |
| 1924394-FA | 67-M5-B |
| 1924394-FB | 67-M5-C |
| 1924394-FC | 490-C2-A |
| 1924394-FD | 490-C2-B |
| 1924394-FE | 490-C2-C |
| 1924394-FF | 327-M3-A |
| 1924394-FG | 327-M3-B |
| 1924394-FH | 327-M3-C |
| 1924394-FI | 820-M2-A |
| 1924394-FJ | 323-M2-D |
| 1924394-FK | 496-M2-B |
| 1924394-FL | E73-W4-B |
| 1924394-FM | E365-W4-A |
| 1924394-FN | E305-W4-B |
| 1924394-FO | E486-W4-A |
| 1924394-FP | E492-W4-B |
| 1924394-FQ | E498-W4-A |

Certificate of Analysis

Client: GHD Limited (Ottawa)

Client PO: 73516118

Report Date: 19-Jun-2019

Order Date: 11-Jun-2019

Project Description: 11196110-E4

| | |
|--------------|-------------|
| 1924394-FR | E65-M11 |
| 1924394-FS | E504-M11-E |
| 1924394-FT.1 | E337-M11 |
| 1924394-FT.2 | E337-M11 |
| 1924394-FU | E542-M12 |
| 1924394-FV.1 | E534-M12 |
| 1924394-FV.2 | E534-M12 |
| 1924394-FW.1 | E820-M12 |
| 1924394-FW.2 | E820-M12 |
| 1924394-FX | E502-W5-B |
| 1924394-FY | E83-W5-A |
| 1924394-FZ | E305-W5-B |
| 1924394-GA.1 | 1-828-W1-B |
| 1924394-GA.2 | 1-828-W1-B |
| 1924394-GB | 1-820-W1-A |
| 1924394-GC | 2-305-W1-F |
| 1924394-GD | 2-319-W1-J |
| 1924394-GE | 3-345-W1-K |
| 1924394-GF | 3-353-W1-H |
| 1924394-GG | 4-311-W1-H |
| 1924394-GH | 4-323-W1-K |
| 1924394-GI | 5-500-W1-N |
| 1924394-GJ.1 | 5-492-W1-S |
| 1924394-GJ.2 | 5-492-W1-S |
| 1924394-GK | 6-496-W1-R |
| 1924394-GL | 6-488-W1-Q |
| 1924394-GM | 7-520-W1-T |
| 1924394-GN | 7-510-W1-Y |
| 1924394-GO | 8-538-W1-A |
| 1924394-GP | 8-59-W1-D |
| 1924394-GQ | 9-63-W1-DD |
| 1924394-GR | 9-71-W1-KK |
| 1924394-GS | 10-83-W1-II |
| 1924394-GT | 10-81-W1-HH |

Certificate of Analysis

Client: **GHD Limited (Ottawa)**

Client PO: **73516118**

Report Date: 19-Jun-2019

Order Date: 11-Jun-2019

Project Description: **11196110-E4**

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

| Parcel ID | Sample Date | Colour | Description | Asbestos Detected | Material Identification | % Content |
|------------|-------------|--------|-------------|-------------------|----------------------------|-----------|
| 1924394-01 | 07-Jun-19 | Grey | VSF | No | Client ID: 538-F2-A | |
| | | | | | Cellulose | 25 |
| | | | | | MMVF | 5 |
| | | | | | Non-Fibers | 70 |
| 1924394-02 | 07-Jun-19 | Grey | VSF | No | Client ID: 65-F2-G | |
| | | | | | Cellulose | 25 |
| | | | | | MMVF | 5 |
| | | | | | Non-Fibers | 70 |
| 1924394-03 | 07-Jun-19 | Grey | VSF | No | Client ID: 488-F2-D | |
| | | | | | Cellulose | 25 |
| | | | | | MMVF | 5 |
| | | | | | Non-Fibers | 70 |
| 1924394-04 | 07-Jun-19 | Tan | VFT | No | Client ID: 498-F3-G | |
| | | | | | Non-Fibers | 100 |
| 1924394-05 | 07-Jun-19 | Tan | VFT | No | Client ID: 83-F3-M | |
| | | | | | Non-Fibers | 100 |
| 1924394-06 | 07-Jun-19 | Tan | VFT | No | Client ID: 820-F3-A | |
| | | | | | Non-Fibers | 100 |
| 1924394-07 | 07-Jun-19 | Beige | VFT | No | Client ID: 828-F4-A | |
| | | | | | Non-Fibers | 100 |
| 1924394-08 | 07-Jun-19 | Beige | VFT | No | Client ID: 518-F4-K | |
| | | | | | Non-Fibers | 100 |
| 1924394-09 | 07-Jun-19 | Beige | VFT | No | Client ID: 357-F4-A | |
| | | | | | Non-Fibers | 100 |

Certificate of Analysis

Report Date: 19-Jun-2019

Client: **GHD Limited (Ottawa)**

Order Date: 11-Jun-2019

Client PO: 73516118

Project Description: 11196110-E4

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

| Parcel ID | Sample Date | Colour | Description | Asbestos Detected | Material Identification | % Content |
|------------|-------------|--------|-------------------|-------------------|----------------------------|-----------|
| 1924394-10 | 07-Jun-19 | Beige | VSF | No | Client ID: 828-F5-A | |
| | | | | | Cellulose | 25 |
| | | | | | MMVF | 5 |
| | | | | | Non-Fibers | 65 |
| | | | | | Other fibers | 5 |
| 1924394-11 | 07-Jun-19 | Beige | VSF | No | Client ID: 828-F5-B | |
| | | | | | Cellulose | 25 |
| | | | | | MMVF | 5 |
| | | | | | Non-Fibers | 65 |
| | | | | | Other fibers | 5 |
| 1924394-12 | 07-Jun-19 | Beige | VSF | No | Client ID: 828-F5-C | |
| | | | | | Cellulose | 25 |
| | | | | | MMVF | 5 |
| | | | | | Non-Fibers | 65 |
| | | | | | Other fibers | 5 |
| 1924394-13 | 07-Jun-19 | Brown | Vinyl Stair Tread | No | Client ID: 492-F6-H | |
| | | | | | Non-Fibers | 100 |
| 1924394-14 | 07-Jun-19 | Brown | Vinyl Stair Tread | No | Client ID: 828-F6-A | |
| | | | | | Non-Fibers | 100 |
| 1924394-15 | 07-Jun-19 | Brown | Vinyl Stair Tread | No | Client ID: 532-F6-I | |
| | | | | | Non-Fibers | 100 |
| 1924394-16 | 07-Jun-19 | Beige | VSF | No | Client ID: 329-F7-E | |
| | | | | | Cellulose | 25 |
| | | | | | MMVF | 5 |
| | | | | | Non-Fibers | 65 |
| | | | | | Other fibers | 5 |

Certificate of Analysis

Client: **GHD Limited (Ottawa)**

Client PO: **73516118**

Report Date: 19-Jun-2019

Order Date: 11-Jun-2019

Project Description: **11196110-E4**

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

| Parcel ID | Sample Date | Colour | Description | Asbestos Detected | Material Identification | % Content |
|------------|-------------|--------|-------------|-------------------|-----------------------------|-----------|
| 1924394-17 | 07-Jun-19 | Beige | VSF | No | Client ID: 498-F7-B | |
| | | | | | Cellulose | 25 |
| | | | | | MMVF | 5 |
| | | | | | Non-Fibers | 65 |
| | | | | | Other fibers | 5 |
| 1924394-18 | 07-Jun-19 | Beige | VSF | No | Client ID: 526-F7-C | |
| | | | | | Cellulose | 25 |
| | | | | | MMVF | 5 |
| | | | | | Non-Fibers | 65 |
| | | | | | Other fibers | 5 |
| 1924394-19 | 07-Jun-19 | Brown | VFT | No | Client ID: 301-F8-A | |
| | | | | | MMVF | 10 |
| | | | | | Non-Fibers | 90 |
| 1924394-20 | 07-Jun-19 | Brown | VFT | No | Client ID: 301-F8-B | |
| | | | | | MMVF | 10 |
| | | | | | Non-Fibers | 90 |
| 1924394-21 | 07-Jun-19 | Brown | VFT | No | Client ID: 301-F8-C | |
| | | | | | MMVF | 10 |
| | | | | | Non-Fibers | 90 |
| 1924394-22 | 07-Jun-19 | Beige | VFT | No | Client ID: 518-F9-G | |
| | | | | | Non-Fibers | 100 |
| 1924394-23 | 07-Jun-19 | Beige | VFT | No | Client ID: 305-F9-B | |
| | | | | | Non-Fibers | 100 |
| 1924394-24 | 07-Jun-19 | Beige | VFT | No | Client ID: 488-F9-O | |
| | | | | | Non-Fibers | 100 |
| 1924394-25 | 07-Jun-19 | Brown | VSF | No | Client ID: 305-F10-A | |
| | | | | | Non-Fibers | 100 |

Certificate of Analysis

Client: **GHD Limited (Ottawa)**

Client PO: **73516118**

Report Date: 19-Jun-2019

Order Date: 11-Jun-2019

Project Description: **11196110-E4**

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

| Parcel ID | Sample Date | Colour | Description | Asbestos Detected | Material Identification | % Content |
|------------|-------------|--------|-------------|-------------------|-----------------------------|-----------|
| 1924394-26 | 07-Jun-19 | Brown | VSF | No | Client ID: 305-F10-B | |
| | | | | | Non-Fibers | 100 |
| 1924394-27 | 07-Jun-19 | Brown | VSF | No | Client ID: 305-F10-C | |
| | | | | | Non-Fibers | 100 |
| 1924394-28 | 07-Jun-19 | Beige | VSF | No | Client ID: 514-F11-B | |
| | | | | | Cellulose | 30 |
| | | | | | Non-Fibers | 70 |
| 1924394-29 | 07-Jun-19 | Beige | VSF | No | Client ID: 83-F11-C | |
| | | | | | Cellulose | 30 |
| | | | | | Non-Fibers | 70 |
| 1924394-30 | 07-Jun-19 | Beige | VSF | No | Client ID: 305-F11-A | |
| | | | | | Cellulose | 30 |
| | | | | | Non-Fibers | 70 |
| 1924394-31 | 07-Jun-19 | Beige | VFT | No | Client ID: 323-F12-D | |
| | | | | | Non-Fibers | 99 |
| | | | | | Other fibers | 1 |
| 1924394-32 | 07-Jun-19 | Beige | VFT | No | Client ID: 329-F12-J | |
| | | | | | Non-Fibers | 100 |
| 1924394-33 | 07-Jun-19 | Beige | VFT | No | Client ID: 540-F12-B | |
| | | | | | Non-Fibers | 99 |
| | | | | | Other fibers | 1 |
| 1924394-34 | 07-Jun-19 | Beige | VFT | No | Client ID: 486-F13-H | |
| | | | | | Non-Fibers | 100 |
| 1924394-35 | 07-Jun-19 | Beige | VFT | No | Client ID: 319-F13-B | |
| | | | | | Non-Fibers | 100 |

Certificate of Analysis

Client: **GHD Limited (Ottawa)**

Client PO: **73516118**

Report Date: 19-Jun-2019

Order Date: 11-Jun-2019

Project Description: **11196110-E4**

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

| Parcel ID | Sample Date | Colour | Description | Asbestos Detected | Material Identification | % Content |
|------------|-------------|--------|-------------|-------------------|-------------------------|-----------|
| 1924394-36 | 07-Jun-19 | Beige | VFT | No | Client ID: 339-F13-K | |
| | | | | | Non-Fibers | 100 |
| 1924394-37 | 07-Jun-19 | Tan | VSF | No | Client ID: 63-F14-C | |
| | | | | | Cellulose | 30 |
| | | | | | Non-Fibers | 70 |
| 1924394-38 | 07-Jun-19 | Tan | VSF | No | Client ID: 311-F14-A | |
| | | | | | Cellulose | 30 |
| | | | | | Non-Fibers | 70 |
| 1924394-39 | 07-Jun-19 | Tan | VSF | No | Client ID: 359-F14-A | |
| | | | | | Cellulose | 30 |
| | | | | | Non-Fibers | 70 |
| 1924394-40 | 07-Jun-19 | Brown | VSF | No | Client ID: 311-F15-A | |
| | | | | | Cellulose | 25 |
| | | | | | MMVF | 5 |
| | | | | | Non-Fibers | 70 |
| 1924394-41 | 07-Jun-19 | Brown | VSF | No | Client ID: 311-F15-B | |
| | | | | | Cellulose | 25 |
| | | | | | MMVF | 5 |
| | | | | | Non-Fibers | 70 |
| 1924394-42 | 07-Jun-19 | Brown | VSF | No | Client ID: 311-F15-C | |
| | | | | | Cellulose | 25 |
| | | | | | MMVF | 5 |
| | | | | | Non-Fibers | 70 |
| 1924394-43 | 07-Jun-19 | Grey | VFT | No | Client ID: 81-F16-F | |
| | | | | | Non-Fibers | 100 |
| 1924394-44 | 07-Jun-19 | Grey | VFT | No | Client ID: 520-F16-C | |
| | | | | | Non-Fibers | 100 |

Certificate of Analysis

Client: **GHD Limited (Ottawa)**

Client PO: **73516118**

Report Date: 19-Jun-2019

Order Date: 11-Jun-2019

Project Description: **11196110-E4**

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

| Parcel ID | Sample Date | Colour | Description | Asbestos Detected | Material Identification | % Content |
|------------|-------------|--------|-------------|-------------------|-----------------------------|-----------|
| 1924394-45 | 07-Jun-19 | Grey | VFT | No | Client ID: 315-F16-A | |
| | | | | | Non-Fibers | 100 |
| 1924394-46 | 07-Jun-19 | Brown | VSF | No | Client ID: 315-F17-A | |
| | | | | | Non-Fibers | 100 |
| 1924394-47 | 07-Jun-19 | Brown | VSF | No | Client ID: 315-F17-B | |
| | | | | | Non-Fibers | 100 |
| 1924394-48 | 07-Jun-19 | Brown | VSF | No | Client ID: 315-F17-C | |
| | | | | | Non-Fibers | 100 |
| 1924394-49 | 07-Jun-19 | Beige | VSF | No | Client ID: 319-F18-A | |
| | | | | | MMVF | 10 |
| | | | | | Non-Fibers | 90 |
| 1924394-50 | 07-Jun-19 | Beige | VSF | No | Client ID: 319-F18-B | |
| | | | | | MMVF | 10 |
| | | | | | Non-Fibers | 90 |
| 1924394-51 | 07-Jun-19 | Beige | VSF | No | Client ID: 319-F18-C | |
| | | | | | MMVF | 10 |
| | | | | | Non-Fibers | 90 |
| 1924394-52 | 07-Jun-19 | White | VSF | No | Client ID: 323-F20-A | |
| | | | | | Cellulose | 30 |
| | | | | | Non-Fibers | 70 |
| 1924394-53 | 07-Jun-19 | White | VSF | No | Client ID: 323-F20-B | |
| | | | | | Cellulose | 30 |
| | | | | | Non-Fibers | 70 |
| 1924394-54 | 07-Jun-19 | White | VSF | No | Client ID: 323-F20-C | |
| | | | | | Cellulose | 30 |
| | | | | | Non-Fibers | 70 |

Certificate of Analysis

Client: **GHD Limited (Ottawa)**

Client PO: **73516118**

Report Date: 19-Jun-2019

Order Date: 11-Jun-2019

Project Description: **11196110-E4**

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

| Parcel ID | Sample Date | Colour | Description | Asbestos Detected | Material Identification | % Content |
|------------|-------------|--------|-----------------------|-------------------|-----------------------------|-----------|
| 1924394-55 | 07-Jun-19 | White | VSF | No | Client ID: 325-F21-B | |
| | | | | | Non-Fibers | 100 |
| 1924394-56 | 07-Jun-19 | White | VSF | No | Client ID: 490-F21-C | |
| | | | | | Non-Fibers | 100 |
| 1924394-57 | 07-Jun-19 | White | VSF | No | Client ID: 81-F21-D | |
| | | | | | Non-Fibers | 100 |
| 1924394-58 | 07-Jun-19 | Grey | Vinyl Sheet Mock Wood | No | Client ID: 325-F22-A | |
| | | | | | MMVF | 10 |
| | | | | | Non-Fibers | 90 |
| 1924394-59 | 07-Jun-19 | Grey | Vinyl Sheet Mock Wood | No | Client ID: 339-F22-A | |
| | | | | | MMVF | 10 |
| | | | | | Non-Fibers | 90 |
| 1924394-60 | 07-Jun-19 | Grey | Vinyl Sheet Mock Wood | No | Client ID: 492-F22-B | |
| | | | | | MMVF | 10 |
| | | | | | Non-Fibers | 90 |
| 1924394-61 | 07-Jun-19 | Black | Vinyl Stair Tread | No | Client ID: 325-F23-A | |
| | | | | | Non-Fibers | 100 |
| 1924394-62 | 07-Jun-19 | Black | Vinyl Stair Tread | No | Client ID: 325-F23-B | |
| | | | | | Non-Fibers | 100 |
| 1924394-63 | 07-Jun-19 | Black | Vinyl Stair Tread | No | Client ID: 325-F23-C | |
| | | | | | Non-Fibers | 100 |
| 1924394-64 | 07-Jun-19 | Brown | VSF | No | Client ID: 510-F24-G | |
| | | | | | Cellulose | 30 |
| | | | | | Non-Fibers | 70 |

Certificate of Analysis

Client: **GHD Limited (Ottawa)**

Client PO: **73516118**

Report Date: 19-Jun-2019

Order Date: 11-Jun-2019

Project Description: **11196110-E4**

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

| Parcel ID | Sample Date | Colour | Description | Asbestos Detected | Material Identification | % Content |
|------------|-------------|-----------|-------------|-------------------|-----------------------------|-----------|
| 1924394-65 | 07-Jun-19 | Brown | VSF | No | Client ID: 325-F24-A | |
| | | | | | Cellulose | 30 |
| | | | | | Non-Fibers | 70 |
| 1924394-66 | 07-Jun-19 | Brown | VSF | No | Client ID: 506-F24-E | |
| | | | | | Cellulose | 30 |
| | | | | | Non-Fibers | 70 |
| 1924394-67 | 07-Jun-19 | Brown | VSF | No | Client ID: 532-F25-C | |
| | | | | | Non-Fibers | 100 |
| 1924394-68 | 07-Jun-19 | Brown | VSF | No | Client ID: 532-F25-E | |
| | | | | | Non-Fibers | 100 |
| 1924394-69 | 07-Jun-19 | Brown | VSF | No | Client ID: 532-F25-A | |
| | | | | | Non-Fibers | 100 |
| 1924394-70 | 07-Jun-19 | Off-white | VFT | No | Client ID: 500-F27-B | |
| | | | | | Non-Fibers | 100 |
| 1924394-71 | 07-Jun-19 | Off-white | VFT | No | Client ID: 500-F27-A | |
| | | | | | Non-Fibers | 100 |
| 1924394-72 | 07-Jun-19 | Off-white | VFT | No | Client ID: 500-F27-C | |
| | | | | | Non-Fibers | 100 |
| 1924394-73 | 07-Jun-19 | Beige | VFT | No | Client ID: 500-F28-A | |
| | | | | | Non-Fibers | 100 |
| 1924394-74 | 07-Jun-19 | Beige | VFT | No | Client ID: 500-F28-B | |
| | | | | | Non-Fibers | 100 |
| 1924394-75 | 07-Jun-19 | Beige | VFT | No | Client ID: 500-F28-C | |
| | | | | | Non-Fibers | 100 |

Certificate of Analysis

Report Date: 19-Jun-2019

Client: GHD Limited (Ottawa)

Order Date: 11-Jun-2019

Client PO: 73516118

Project Description: 11196110-E4

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

| Parcel ID | Sample Date | Colour | Description | Asbestos Detected | Material Identification | % Content |
|------------|-------------|--------|---------------------|-------------------|-------------------------|-----------|
| 1924394-76 | 07-Jun-19 | Brown | VSF | No | Client ID: 534-F29-A | |
| | | | | | Non-Fibers | 100 |
| 1924394-77 | 07-Jun-19 | Brown | VSF | No | Client ID: 534-F29-B | |
| | | | | | Non-Fibers | 100 |
| 1924394-78 | 07-Jun-19 | Brown | VSF | No | Client ID: 534-F29-C | |
| | | | | | Non-Fibers | 100 |
| 1924394-79 | 07-Jun-19 | Grey | VSF | No | Client ID: 502-F30-A | |
| | | | | | MMVF | 10 |
| | | | | | Non-Fibers | 90 |
| 1924394-80 | 07-Jun-19 | Grey | VSF | No | Client ID: 514-F30-B | |
| | | | | | MMVF | 10 |
| | | | | | Non-Fibers | 90 |
| 1924394-81 | 07-Jun-19 | Grey | VSF | No | Client ID: 510-F30-C | |
| | | | | | MMVF | 10 |
| | | | | | Non-Fibers | 90 |
| 1924394-82 | 07-Jun-19 | Green | VFT | Yes | Client ID: 488-F32-B | |
| | | | | | Chrysotile | 10 |
| | | | | | Non-Fibers | 90 |
| 1924394-83 | 07-Jun-19 | | | | Client ID: 524-F32-D | |
| | | | | | not analyzed | |
| 1924394-84 | 07-Jun-19 | | | | Client ID: 329-F32-E | |
| | | | | | not analyzed | |
| 1924394-85 | 07-Jun-19 | Brown | Vinyl Mock Hardwood | No | Client ID: 490-F33-A | |
| | | | | | Non-Fibers | 100 |

Certificate of Analysis

Client: **GHD Limited (Ottawa)**

Client PO: **73516118**

Report Date: 19-Jun-2019

Order Date: 11-Jun-2019

Project Description: **11196110-E4**

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

| Parcel ID | Sample Date | Colour | Description | Asbestos Detected | Material Identification | % Content |
|------------|-------------|-------------|---------------------|-------------------|-----------------------------|-----------|
| 1924394-86 | 07-Jun-19 | Brown | Vinyl Mock Hardwood | No | Client ID: 490-F33-B | |
| | | | | | Non-Fibers | 100 |
| 1924394-87 | 07-Jun-19 | Brown | Vinyl Mock Hardwood | No | Client ID: 490-F33-C | |
| | | | | | Non-Fibers | 100 |
| 1924394-88 | 07-Jun-19 | Brown | Vinyl Mock Hardwood | No | Client ID: 357-F34-A | |
| | | | | | Non-Fibers | 100 |
| 1924394-89 | 07-Jun-19 | Brown | Vinyl Mock Hardwood | No | Client ID: 522-F34-D | |
| | | | | | Non-Fibers | 100 |
| 1924394-90 | 07-Jun-19 | Brown | Vinyl Mock Hardwood | No | Client ID: 327-F34-B | |
| | | | | | Non-Fibers | 100 |
| 1924394-91 | 07-Jun-19 | White | VSF | No | Client ID: 496-F35-B | |
| | | | | | Cellulose | 30 |
| | | | | | Non-Fibers | 70 |
| 1924394-92 | 07-Jun-19 | White | VSF | No | Client ID: 496-F35-A | |
| | | | | | Cellulose | 30 |
| | | | | | Non-Fibers | 70 |
| 1924394-93 | 07-Jun-19 | White | VSF | No | Client ID: 355-F35-A | |
| | | | | | Cellulose | 30 |
| | | | | | Non-Fibers | 70 |
| 1924394-94 | 07-Jun-19 | White/Black | VFT | No | Client ID: 496-F36-A | |
| | | | | | Non-Fibers | 100 |
| 1924394-95 | 07-Jun-19 | White/Black | VFT | No | Client ID: 496-F36-B | |
| | | | | | Non-Fibers | 100 |
| 1924394-96 | 07-Jun-19 | White/Black | VFT | No | Client ID: 496-F36-C | |
| | | | | | Non-Fibers | 100 |

Certificate of Analysis

Report Date: 19-Jun-2019

Client: **GHD Limited (Ottawa)**

Order Date: 11-Jun-2019

Client PO: 73516118

Project Description: 11196110-E4

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

| Parcel ID | Sample Date | Colour | Description | Asbestos Detected | Material Identification | % Content |
|------------|-------------|-------------|-------------|-------------------|-----------------------------|-----------|
| 1924394-97 | 07-Jun-19 | White/Black | VFT | No | Client ID: 496-F37-A | |
| | | | | | Non-Fibers | 100 |
| 1924394-98 | 07-Jun-19 | White/Black | VFT | No | Client ID: 496-F37-B | |
| | | | | | Non-Fibers | 100 |
| 1924394-99 | 07-Jun-19 | White/Black | VFT | No | Client ID: 496-F37-C | |
| | | | | | Non-Fibers | 100 |
| 1924394-AA | 07-Jun-19 | Beige | VFT | No | Client ID: 496-F38-A | |
| | | | | | Non-Fibers | 100 |
| 1924394-AB | 07-Jun-19 | Beige | VFT | No | Client ID: 327-F38-B | |
| | | | | | Non-Fibers | 100 |
| 1924394-AC | 07-Jun-19 | Beige | VFT | No | Client ID: 329-F38-C | |
| | | | | | Non-Fibers | 100 |
| 1924394-AD | 07-Jun-19 | Beige | VFT | No | Client ID: 522-F39-A | |
| | | | | | MMVF | 1 |
| | | | | | Non-Fibers | 99 |
| 1924394-AE | 07-Jun-19 | Beige | VFT | No | Client ID: 522-F39-B | |
| | | | | | MMVF | 1 |
| | | | | | Non-Fibers | 99 |
| 1924394-AF | 07-Jun-19 | Beige | VFT | No | Client ID: 522-F39-C | |
| | | | | | MMVF | 1 |
| | | | | | Non-Fibers | 99 |
| 1924394-AG | 07-Jun-19 | Blue | VFT | No | Client ID: 520-F40-A | |
| | | | | | Non-Fibers | 100 |
| 1924394-AH | 07-Jun-19 | Blue | VFT | No | Client ID: 333-F40-B | |
| | | | | | Non-Fibers | 100 |

Certificate of Analysis

Client: **GHD Limited (Ottawa)**

Client PO: **73516118**

Report Date: 19-Jun-2019

Order Date: 11-Jun-2019

Project Description: **11196110-E4**

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

| Parcel ID | Sample Date | Colour | Description | Asbestos Detected | Material Identification | % Content |
|------------|-------------|--------|-------------|-------------------|-------------------------|-----------|
| 1924394-AI | 07-Jun-19 | Blue | VFT | No | Client ID: 520-F40-C | |
| | | | | | Non-Fibers | 100 |
| 1924394-AJ | 07-Jun-19 | Beige | VSF | No | Client ID: 520-F41-A | |
| | | | | | Cellulose | 30 |
| | | | | | Non-Fibers | 70 |
| 1924394-AK | 07-Jun-19 | Beige | VSF | No | Client ID: 520-F41-B | |
| | | | | | Cellulose | 30 |
| | | | | | Non-Fibers | 70 |
| 1924394-AL | 07-Jun-19 | Beige | VSF | No | Client ID: 520-F41-C | |
| | | | | | Cellulose | 30 |
| | | | | | Non-Fibers | 70 |
| 1924394-AM | 07-Jun-19 | Beige | VSF | No | Client ID: 520-F42-A | |
| | | | | | Non-Fibers | 100 |
| 1924394-AN | 07-Jun-19 | Beige | VSF | No | Client ID: 520-F42-B | |
| | | | | | Non-Fibers | 100 |
| 1924394-AO | 07-Jun-19 | Beige | VSF | No | Client ID: 520-F42-C | |
| | | | | | Non-Fibers | 100 |
| 1924394-AP | 07-Jun-19 | Beige | VSF | No | Client ID: 510-F43-A | |
| | | | | | Non-Fibers | 100 |
| 1924394-AQ | 07-Jun-19 | Beige | VSF | No | Client ID: 510-F43-B | |
| | | | | | Non-Fibers | 100 |
| 1924394-AR | 07-Jun-19 | Beige | VSF | No | Client ID: 510-F43-C | |
| | | | | | Non-Fibers | 100 |

Certificate of Analysis

Client: **GHD Limited (Ottawa)**

Client PO: **73516118**

Report Date: 19-Jun-2019

Order Date: 11-Jun-2019

Project Description: **11196110-E4**

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

| Parcel ID | Sample Date | Colour | Description | Asbestos Detected | Material Identification | % Content |
|------------|-------------|--------|-------------|-------------------|-----------------------------|-----------|
| 1924394-AS | 07-Jun-19 | Beige | VSF | No | Client ID: 524-F44-A | |
| | | | | | Cellulose | 25 |
| | | | | | MMVF | 5 |
| | | | | | Non-Fibers | 70 |
| 1924394-AT | 07-Jun-19 | Beige | VSF | No | Client ID: 524-F44-B | |
| | | | | | Cellulose | 25 |
| | | | | | MMVF | 5 |
| | | | | | Non-Fibers | 70 |
| 1924394-AU | 07-Jun-19 | Beige | VSF | No | Client ID: 524-F44-C | |
| | | | | | Cellulose | 25 |
| | | | | | MMVF | 5 |
| | | | | | Non-Fibers | 70 |
| 1924394-AV | 07-Jun-19 | Beige | VSF | No | Client ID: 355-F45-A | |
| | | | | | MMVF | 1 |
| | | | | | Non-Fibers | 99 |
| 1924394-AW | 07-Jun-19 | Beige | VSF | No | Client ID: 345-F45-B | |
| | | | | | Cellulose | 30 |
| | | | | | Non-Fibers | 70 |
| 1924394-AX | 07-Jun-19 | Beige | VSF | No | Client ID: 345-F45-D | |
| | | | | | Cellulose | 30 |
| | | | | | Non-Fibers | 70 |
| 1924394-AY | 07-Jun-19 | Beige | VSF | No | Client ID: 524-F46-A | |
| | | | | | Cellulose | 25 |
| | | | | | MMVF | 5 |
| | | | | | Non-Fibers | 70 |

Certificate of Analysis

Client: **GHD Limited (Ottawa)**

Client PO: **73516118**

Report Date: 19-Jun-2019

Order Date: 11-Jun-2019

Project Description: **11196110-E4**

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

| Parcel ID | Sample Date | Colour | Description | Asbestos Detected | Material Identification | % Content |
|------------|-------------|--------|-------------|-------------------|-------------------------|-----------|
| 1924394-AZ | 07-Jun-19 | Beige | VSF | No | Client ID: 524-F46-B | |
| | | | | | Cellulose | 25 |
| | | | | | MMVF | 5 |
| | | | | | Non-Fibers | 70 |
| 1924394-BA | 07-Jun-19 | Beige | VSF | No | Client ID: 524-F46-C | |
| | | | | | Cellulose | 25 |
| | | | | | MMVF | 5 |
| | | | | | Non-Fibers | 70 |
| 1924394-BB | 07-Jun-19 | Beige | VSF | No | Client ID: 339-F47-A | |
| | | | | | Cellulose | 25 |
| | | | | | MMVF | 5 |
| | | | | | Non-Fibers | 70 |
| 1924394-BC | 07-Jun-19 | Beige | VSF | No | Client ID: 339-F47-B | |
| | | | | | Cellulose | 25 |
| | | | | | MMVF | 5 |
| | | | | | Non-Fibers | 70 |
| 1924394-BD | 07-Jun-19 | Beige | VSF | No | Client ID: 524-F47-A | |
| | | | | | Cellulose | 25 |
| | | | | | MMVF | 5 |
| | | | | | Non-Fibers | 70 |
| 1924394-BE | 07-Jun-19 | Beige | VFT | No | Client ID: 532-F48-A | |
| | | | | | Non-Fibers | 100 |
| 1924394-BF | 07-Jun-19 | Beige | VFT | No | Client ID: 532-F48-B | |
| | | | | | Non-Fibers | 100 |
| 1924394-BG | 07-Jun-19 | Beige | VFT | No | Client ID: 532-F48-C | |
| | | | | | Non-Fibers | 100 |

Certificate of Analysis

Client: **GHD Limited (Ottawa)**

Client PO: **73516118**

Report Date: 19-Jun-2019

Order Date: 11-Jun-2019

Project Description: **11196110-E4**

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

| Parcel ID | Sample Date | Colour | Description | Asbestos Detected | Material Identification | % Content |
|------------|-------------|--------|---------------|-------------------|-----------------------------|-----------|
| 1924394-BH | 07-Jun-19 | Grey | VFT | No | Client ID: 327-F49-A | |
| | | | | | Cellulose | 25 |
| | | | | | MMVF | 5 |
| | | | | | Non-Fibers | 70 |
| 1924394-BI | 07-Jun-19 | Grey | VFT | No | Client ID: 327-F49-B | |
| | | | | | Cellulose | 25 |
| | | | | | MMVF | 5 |
| | | | | | Non-Fibers | 70 |
| 1924394-BJ | 07-Jun-19 | Grey | VFT | No | Client ID: 327-F49-C | |
| | | | | | Cellulose | 25 |
| | | | | | MMVF | 5 |
| | | | | | Non-Fibers | 70 |
| 1924394-BK | 07-Jun-19 | Brown | Mock Hardwood | No | Client ID: 327-F50-A | |
| | | | | | Non-Fibers | 100 |
| 1924394-BL | 07-Jun-19 | Brown | Mock Hardwood | No | Client ID: 327-F50-B | |
| | | | | | Non-Fibers | 100 |
| 1924394-BM | 07-Jun-19 | Brown | Mock Hardwood | No | Client ID: 327-F50-C | |
| | | | | | Non-Fibers | 100 |
| 1924394-BN | 07-Jun-19 | Beige | VSF | No | Client ID: 327-F51-A | |
| | | | | | Cellulose | 25 |
| | | | | | MMVF | 5 |
| | | | | | Non-Fibers | 70 |
| 1924394-BO | 07-Jun-19 | Beige | VSF | No | Client ID: 327-F51-B | |
| | | | | | Cellulose | 25 |
| | | | | | MMVF | 5 |
| | | | | | Non-Fibers | 70 |

Certificate of Analysis

Report Date: 19-Jun-2019

Client: **GHD Limited (Ottawa)**

Order Date: 11-Jun-2019

Client PO: 73516118

Project Description: 11196110-E4

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

| Parcel ID | Sample Date | Colour | Description | Asbestos Detected | Material Identification | % Content |
|------------|-------------|------------|---------------|-------------------|-------------------------|-----------|
| 1924394-BP | 07-Jun-19 | Beige | VSF | No | Client ID: 327-F51-C | |
| | | | | | Cellulose | 25 |
| | | | | | MMVF | 5 |
| | | | | | Non-Fibers | 70 |
| 1924394-BQ | 07-Jun-19 | Brown | Mock Hardwood | No | Client ID: 327-F52-A | |
| | | | | | MMVF | 10 |
| | | | | | Non-Fibers | 90 |
| 1924394-BR | 07-Jun-19 | Brown | Mock Hardwood | No | Client ID: 327-F52-B | |
| | | | | | MMVF | 10 |
| | | | | | Non-Fibers | 90 |
| 1924394-BS | 07-Jun-19 | Brown | Mock Hardwood | No | Client ID: 327-F52-C | |
| | | | | | MMVF | 10 |
| | | | | | Non-Fibers | 90 |
| 1924394-BT | 07-Jun-19 | Brown | VFT | No | Client ID: 333-F53-A | |
| | | | | | Non-Fibers | 99 |
| | | | | | Other fibers | 1 |
| 1924394-BU | 07-Jun-19 | Brown | VFT | No | Client ID: 333-F53-B | |
| | | | | | Non-Fibers | 100 |
| | | | | | Other fibers | 1 |
| 1924394-BV | 07-Jun-19 | Brown | VFT | No | Client ID: 333-F53-C | |
| | | | | | Non-Fibers | 99 |
| | | | | | Other fibers | 1 |
| 1924394-BW | 07-Jun-19 | Mock White | VSF | No | Client ID: 333-F54-A | |
| | | | | | Cellulose | 40 |
| | | | | | Non-Fibers | 60 |

Certificate of Analysis

Report Date: 19-Jun-2019

Client: GHD Limited (Ottawa)

Order Date: 11-Jun-2019

Client PO: 73516118

Project Description: 11196110-E4

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

| Parcel ID | Sample Date | Colour | Description | Asbestos Detected | Material Identification | % Content |
|------------|-------------|------------|-------------|-------------------|-------------------------|-----------|
| 1924394-BX | 07-Jun-19 | Mock White | VSF | No | Client ID: 333-F54-B | |
| | | | | | Cellulose | 40 |
| | | | | | Non-Fibers | 60 |
| 1924394-BY | 07-Jun-19 | Mock White | VSF | No | Client ID: 333-F54-C | |
| | | | | | Cellulose | 40 |
| | | | | | Non-Fibers | 60 |
| 1924394-BZ | 07-Jun-19 | Tan/White | VSF | No | Client ID: 333-F55-A | |
| | | | | | Cellulose | 30 |
| | | | | | Non-Fibers | 65 |
| | | | | | Other fibers | 5 |
| 1924394-CA | 07-Jun-19 | Tan/White | VSF | No | Client ID: 335-F55-B | |
| | | | | | Cellulose | 30 |
| | | | | | Non-Fibers | 65 |
| | | | | | Other fibers | 5 |
| 1924394-CB | 07-Jun-19 | Tan/White | VSF | No | Client ID: 63-F55-B | |
| | | | | | Cellulose | 30 |
| | | | | | Non-Fibers | 65 |
| | | | | | Other fibers | 5 |
| 1924394-CC | 07-Jun-19 | Dark Brown | VFT | Yes | Client ID: 335-F56-A | |
| | | | | | Chrysotile | 6 |
| | | | | | Non-Fibers | 94 |
| 1924394-CD | 07-Jun-19 | | | | Client ID: 335-F56-B | |
| | | | | | not analyzed | |
| 1924394-CE | 07-Jun-19 | | | | Client ID: 335-F56-C | |
| | | | | | not analyzed | |
| 1924394-CF | 07-Jun-19 | Beige | VFT | No | Client ID: 335-F57-A | |
| | | | | | Non-Fibers | 100 |

Certificate of Analysis

Report Date: 19-Jun-2019

Client: **GHD Limited (Ottawa)**

Order Date: 11-Jun-2019

Client PO: 73516118

Project Description: 11196110-E4

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

| Parcel ID | Sample Date | Colour | Description | Asbestos Detected | Material Identification | % Content |
|------------|-------------|------------|-------------------|-------------------|-------------------------|-----------|
| 1924394-CG | 07-Jun-19 | Beige | VFT | No | Client ID: 335-F57-B | |
| | | | | | Non-Fibers | 100 |
| 1924394-CH | 07-Jun-19 | Beige | VFT | No | Client ID: 335-F37-C | |
| | | | | | Non-Fibers | 100 |
| 1924394-CI | 07-Jun-19 | Brown | VFT | No | Client ID: 335-F58-A | |
| | | | | | Non-Fibers | 100 |
| 1924394-CJ | 07-Jun-19 | Brown | VFT | No | Client ID: 335-F58-B | |
| | | | | | Non-Fibers | 100 |
| 1924394-CK | 07-Jun-19 | Brown | VFT | No | Client ID: 335-F58-C | |
| | | | | | Non-Fibers | 100 |
| 1924394-CL | 07-Jun-19 | Grey/Beige | Mock Hardwood | No | Client ID: 333-F59-A | |
| | | | | | Non-Fibers | 100 |
| 1924394-CM | 07-Jun-19 | Grey/Beige | Mock Hardwood | No | Client ID: 333-F59-B | |
| | | | | | Non-Fibers | 100 |
| 1924394-CN | 07-Jun-19 | Grey/Beige | Mock Hardwood | No | Client ID: 333-F59-C | |
| | | | | | Non-Fibers | 100 |
| 1924394-CO | 07-Jun-19 | White | Vinyl Floor Tread | No | Client ID: 337-F60-A | |
| | | | | | Non-Fibers | 100 |
| 1924394-CP | 07-Jun-19 | White | Vinyl Floor Tread | No | Client ID: 337-F60-B | |
| | | | | | Non-Fibers | 100 |
| 1924394-CQ | 07-Jun-19 | White | Vinyl Floor Tread | No | Client ID: 337-F60-C | |
| | | | | | Non-Fibers | 100 |
| 1924394-CR | 07-Jun-19 | Beige | VSF | No | Client ID: 337-F61-A | |
| | | | | | Cellulose | 20 |
| | | | | | Non-Fibers | 80 |

Certificate of Analysis

Client: **GHD Limited (Ottawa)**

Client PO: **73516118**

Report Date: 19-Jun-2019

Order Date: 11-Jun-2019

Project Description: **11196110-E4**

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

| Parcel ID | Sample Date | Colour | Description | Asbestos Detected | Material Identification | % Content |
|------------|-------------|------------|-------------|-------------------|-------------------------|-----------|
| 1924394-CS | 07-Jun-19 | Beige | VSF | No | Client ID: 337-F61-B | |
| | | | | | Cellulose | 20 |
| | | | | | Non-Fibers | 80 |
| 1924394-CT | 07-Jun-19 | Beige | VSF | No | Client ID: 337-F61-C | |
| | | | | | Cellulose | 20 |
| | | | | | Non-Fibers | 80 |
| 1924394-CU | 07-Jun-19 | Grey | VFT | No | Client ID: 337-F62-A | |
| | | | | | Non-Fibers | 100 |
| 1924394-CV | 07-Jun-19 | Grey | VFT | No | Client ID: 337-F62-B | |
| | | | | | Non-Fibers | 100 |
| 1924394-CW | 07-Jun-19 | Grey | VFT | No | Client ID: 337-F62-C | |
| | | | | | Non-Fibers | 100 |
| 1924394-CX | 07-Jun-19 | Blue/White | VFT | No | Client ID: 337-F63-A | |
| | | | | | Non-Fibers | 100 |
| 1924394-CY | 07-Jun-19 | Blue/White | VFT | No | Client ID: 337-F63-B | |
| | | | | | Non-Fibers | 100 |
| 1924394-CZ | 07-Jun-19 | Blue/White | VFT | No | Client ID: 337-F63-C | |
| | | | | | Non-Fibers | 100 |
| 1924394-DA | 07-Jun-19 | White | VFT | Yes | Client ID: 65-F64-A | |
| | | | | | Chrysotile | 5 |
| | | | | | Non-Fibers | 95 |
| 1924394-DB | 07-Jun-19 | | | | Client ID: 65-F64-B | |
| | | | | | not analyzed | |
| 1924394-DC | 07-Jun-19 | | | | Client ID: 65-F64-C | |
| | | | | | not analyzed | |

Certificate of Analysis

Report Date: 19-Jun-2019

Client: **GHD Limited (Ottawa)**

Order Date: 11-Jun-2019

Client PO: 73516118

Project Description: 11196110-E4

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

| Parcel ID | Sample Date | Colour | Description | Asbestos Detected | Material Identification | % Content |
|------------|-------------|--------|-------------|-------------------|-------------------------|-----------|
| 1924394-DD | 07-Jun-19 | White | VFT | No | Client ID: 361-F65-A | |
| | | | | | Non-Fibers | 100 |
| 1924394-DE | 07-Jun-19 | White | VFT | No | Client ID: 361-F65-B | |
| | | | | | Non-Fibers | 100 |
| 1924394-DF | 07-Jun-19 | White | VFT | No | Client ID: 361-F65-C | |
| | | | | | Non-Fibers | 100 |
| 1924394-DG | 07-Jun-19 | Beige | VFT | No | Client ID: 355-F66-A | |
| | | | | | Non-Fibers | 98 |
| | | | | | Other fibers | 2 |
| 1924394-DH | 07-Jun-19 | Beige | VFT | No | Client ID: 355-F66-B | |
| | | | | | Non-Fibers | 98 |
| | | | | | Other fibers | 2 |
| 1924394-DI | 07-Jun-19 | Beige | VFT | No | Client ID: 355-F66-C | |
| | | | | | Non-Fibers | 98 |
| | | | | | Other fibers | 2 |
| 1924394-DJ | 07-Jun-19 | Beige | VSF | No | Client ID: 339-F67-A | |
| | | | | | Cellulose | 15 |
| | | | | | MMVF | 5 |
| | | | | | Non-Fibers | 80 |
| 1924394-DK | 07-Jun-19 | Beige | VSF | No | Client ID: 339-F67-B | |
| | | | | | Cellulose | 15 |
| | | | | | MMVF | 5 |
| | | | | | Non-Fibers | 80 |
| 1924394-DL | 07-Jun-19 | Beige | VSF | No | Client ID: 339-F67-C | |
| | | | | | Cellulose | 15 |
| | | | | | MMVF | 5 |
| | | | | | Non-Fibers | 80 |

Certificate of Analysis

Client: **GHD Limited (Ottawa)**

Client PO: **73516118**

Report Date: 19-Jun-2019

Order Date: 11-Jun-2019

Project Description: **11196110-E4**

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

| Parcel ID | Sample Date | Colour | Description | Asbestos Detected | Material Identification | % Content |
|------------|-------------|-------------|-------------|-------------------|-------------------------|-----------|
| 1924394-DM | 07-Jun-19 | Beige/Brown | VSF | Yes | Client ID: 339-F68-A | |
| | | | | | Chrysotile | 2 |
| | | | | | Non-Fibers | 98 |
| 1924394-DN | 07-Jun-19 | | | | Client ID: 339-F68-B | |
| | | | | | not analyzed | |
| 1924394-DO | 07-Jun-19 | | | | Client ID: 339-F68-C | |
| | | | | | not analyzed | |
| 1924394-DP | 07-Jun-19 | Beige/Black | VSF | No | Client ID: 492-F69-A | |
| | | | | | Non-Fibers | 100 |
| 1924394-DQ | 07-Jun-19 | Beige/Black | VSF | No | Client ID: 492-F69-B | |
| | | | | | Non-Fibers | 100 |
| 1924394-DR | 07-Jun-19 | Beige/Black | VSF | No | Client ID: 492-F69-C | |
| | | | | | Non-Fibers | 100 |
| 1924394-DS | 07-Jun-19 | Brown/Black | VSF | No | Client ID: 498-F70-A | |
| | | | | | Non-Fibers | 100 |
| 1924394-DT | 07-Jun-19 | Brown/Black | VSF | No | Client ID: 498-F70-B | |
| | | | | | Non-Fibers | 100 |
| 1924394-DU | 07-Jun-19 | Brown/Black | VSF | No | Client ID: 498-F70-C | |
| | | | | | Non-Fibers | 100 |
| 1924394-DV | 07-Jun-19 | Blue/Black | VSF | No | Client ID: 63-F72-A | |
| | | | | | Non-Fibers | 100 |
| 1924394-DW | 07-Jun-19 | Blue/Black | VSF | No | Client ID: 63-F72-B | |
| | | | | | Non-Fibers | 100 |
| 1924394-DX | 07-Jun-19 | Blue/Black | VSF | No | Client ID: 63-F72-C | |
| | | | | | Non-Fibers | 100 |

Certificate of Analysis

Report Date: 19-Jun-2019

Client: **GHD Limited (Ottawa)**

Order Date: 11-Jun-2019

Client PO: 73516118

Project Description: 11196110-E4

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

| Parcel ID | Sample Date | Colour | Description | Asbestos Detected | Material Identification | % Content |
|------------|-------------|----------------|-------------|-------------------|-------------------------|-----------|
| 1924394-DY | 07-Jun-19 | Brown/Black | VSF | No | Client ID: 83-F73-A | |
| | | | | | Non-Fibers | 100 |
| 1924394-DZ | 07-Jun-19 | Black/Brown | VSF | No | Client ID: 83-F73-B | |
| | | | | | Non-Fibers | 100 |
| 1924394-EA | 07-Jun-19 | Black/Brown | VSF | No | Client ID: 83-F73-C | |
| | | | | | Non-Fibers | 100 |
| 1924394-EB | 07-Jun-19 | Dark Beige | VSF | No | Client ID: 524-F74-A | |
| | | | | | Cellulose | 20 |
| | | | | | Non-Fibers | 80 |
| 1924394-EC | 07-Jun-19 | Dark Beige | VSF | No | Client ID: 524-F74-B | |
| | | | | | Cellulose | 20 |
| | | | | | Non-Fibers | 80 |
| 1924394-ED | 07-Jun-19 | Dark Beige | VSF | No | Client ID: 524-F74-C | |
| | | | | | Cellulose | 20 |
| | | | | | Non-Fibers | 80 |
| 1924394-EE | 07-Jun-19 | Dark Brown/Tan | VSF | No | Client ID: 492-F75-A | |
| | | | | | Cellulose | 20 |
| | | | | | Non-Fibers | 80 |
| 1924394-EF | 07-Jun-19 | Dark Brown/Tan | VSF | No | Client ID: 492-F75-B | |
| | | | | | Cellulose | 20 |
| | | | | | Non-Fibers | 80 |
| 1924394-EG | 07-Jun-19 | Dark Brown/Tan | VSF | No | Client ID: 492-F75-C | |
| | | | | | Cellulose | 20 |
| | | | | | Non-Fibers | 80 |

Certificate of Analysis

Report Date: 19-Jun-2019

Client: GHD Limited (Ottawa)

Order Date: 11-Jun-2019

Client PO: 73516118

Project Description: 11196110-E4

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

| Parcel ID | Sample Date | Colour | Description | Asbestos Detected | Material Identification | % Content |
|------------|-------------|------------|-------------|-------------------|-------------------------|-----------|
| 1924394-EH | 07-Jun-19 | Dark Beige | VSF | No | Client ID: 486-F77-A | |
| | | | | | Cellulose | 30 |
| | | | | | Non-Fibers | 70 |
| 1924394-EI | 07-Jun-19 | Dark Beige | VSF | No | Client ID: 486-F77-B | |
| | | | | | Cellulose | 30 |
| | | | | | Non-Fibers | 70 |
| 1924394-EJ | 07-Jun-19 | Dark Beige | VSF | No | Client ID: 486-F77-C | |
| | | | | | Cellulose | 30 |
| | | | | | Non-Fibers | 70 |
| 1924394-EK | 07-Jun-19 | Dark Tan | VSF | No | Client ID: 500-F78-A | |
| | | | | | Cellulose | 30 |
| | | | | | MMVF | 5 |
| | | | | | Non-Fibers | 65 |
| 1924394-EL | 07-Jun-19 | Dark Tan | VSF | No | Client ID: 500-F78-B | |
| | | | | | Cellulose | 30 |
| | | | | | MMVF | 5 |
| | | | | | Non-Fibers | 65 |
| 1924394-EM | 07-Jun-19 | Dark Tan | VSF | No | Client ID: 500-F78-C | |
| | | | | | Cellulose | 30 |
| | | | | | MMVF | 5 |
| | | | | | Non-Fibers | 65 |
| 1924394-EN | 05-Jun-19 | Black | Tar Paper | No | Client ID: 526-M1-Y | |
| | | | | | Cellulose | 65 |
| | | | | | Non-Fibers | 35 |
| 1924394-EO | 05-Jun-19 | Black | Tar Paper | No | Client ID: 828-M1-B | |
| | | | | | Cellulose | 65 |
| | | | | | Non-Fibers | 35 |

Certificate of Analysis

Client: **GHD Limited (Ottawa)**

Client PO: **73516118**

Report Date: 19-Jun-2019

Order Date: 11-Jun-2019

Project Description: **11196110-E4**

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

| Parcel ID | Sample Date | Colour | Description | Asbestos Detected | Material Identification | % Content |
|------------|-------------|--------|----------------------|-------------------|-------------------------|-----------|
| 1924394-EP | 05-Jun-19 | Black | Tar Paper | No | Client ID: 325-M1-K | |
| | | | | | Cellulose | 65 |
| | | | | | Non-Fibers | 35 |
| 1924394-EQ | 07-Jun-19 | Grey | Gypsum | No | Client ID: 538-W3-A | |
| | | | | | Cellulose | 1 |
| | | | | | Non-Fibers | 99 |
| 1924394-ER | 07-Jun-19 | White | Gypsum | No | Client ID: 490-W3-H | |
| | | | | | Cellulose | 1 |
| | | | | | Non-Fibers | 99 |
| 1924394-ES | 07-Jun-19 | Grey | Gypsum | No | Client ID: 341-W3-D | |
| | | | | | Cellulose | 1 |
| | | | | | Non-Fibers | 99 |
| 1924394-ET | 07-Jun-19 | Grey | Cement Elbow | Yes | Client ID: 355-M6-A | |
| | | | | | Chrysotile | 35 |
| | | | | | Non-Fibers | 65 |
| 1924394-EU | 07-Jun-19 | | | | Client ID: 355-M6-B | |
| | | | | | not analyzed | |
| 1924394-EV | 07-Jun-19 | | | | Client ID: 355-M6-C | |
| | | | | | not analyzed | |
| 1924394-EW | 06-Jun-19 | Beige | Cellulose Paper Wrap | Yes | Client ID: 337-M4-A | |
| | | | | | Chrysotile | 5 |
| | | | | | Cellulose | 75 |
| | | | | | Non-Fibers | 20 |
| 1924394-EX | 07-Jun-19 | | | | Client ID: 355-M4-B | |
| | | | | | not analyzed | |

Certificate of Analysis

Client: **GHD Limited (Ottawa)**

Client PO: **73516118**

Report Date: 19-Jun-2019

Order Date: 11-Jun-2019

Project Description: **11196110-E4**

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

| Parcel ID | Sample Date | Colour | Description | Asbestos Detected | Material Identification | % Content |
|------------|-------------|--------|------------------|-------------------|-------------------------|-----------|
| 1924394-EY | 07-Jun-19 | | | | Client ID: 355-M4-C | |
| | | | | | not analyzed | |
| 1924394-EZ | 07-Jun-19 | Beige | Vermiculite | Yes | Client ID: 67-M5-A | |
| | | | | | Tremolite | 1 |
| | | | | | Non-Fibers | 99 |
| 1924394-FA | 07-Jun-19 | | | | Client ID: 67-M5-B | |
| | | | | | not analyzed | |
| 1924394-FB | 07-Jun-19 | | | | Client ID: 67-M5-C | |
| | | | | | not analyzed | |
| 1924394-FC | 07-Jun-19 | White | Stipple | No | Client ID: 490-C2-A | |
| | | | | | Non-Fibers | 100 |
| 1924394-FD | 07-Jun-19 | White | Stipple | No | Client ID: 490-C2-B | |
| | | | | | [Z-01] | |
| | | | | | Non-Fibers | 100 |
| 1924394-FE | 07-Jun-19 | White | Stipple | No | Client ID: 490-C2-C | |
| | | | | | Non-Fibers | 100 |
| 1924394-FF | 07-Jun-19 | Grey | Concrete Parge | No | Client ID: 327-M3-A | |
| | | | | | Non-Fibers | 100 |
| 1924394-FG | 07-Jun-19 | Grey | Concrete Parge | No | Client ID: 327-M3-B | |
| | | | | | Non-Fibers | 100 |
| 1924394-FH | 07-Jun-19 | Grey | Concrete Parge | No | Client ID: 327-M3-C | |
| | | | | | Non-Fibers | 100 |
| 1924394-FI | 07-Jun-19 | Black | Tar on Styrofoam | Yes | Client ID: 820-M2-A | |
| | | | | | [AS-PRE] | |
| | | | | | Chrysotile | 10 |
| | | | | | Non-Fibers | 90 |

Certificate of Analysis

Client: **GHD Limited (Ottawa)**

Client PO: **73516118**

Report Date: 19-Jun-2019

Order Date: 11-Jun-2019

Project Description: **11196110-E4**

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

| Parcel ID | Sample Date | Colour | Description | Asbestos Detected | Material Identification | % Content |
|--------------|-------------|--------|-------------------|-------------------|---|--------------------|
| 1924394-FJ | 07-Jun-19 | | | | Client ID: 323-M2-D not analyzed | |
| 1924394-FK | 07-Jun-19 | | | | Client ID: 496-M2-B not analyzed | |
| 1924394-FL | 07-Jun-19 | Red | exterior pointing | No | Client ID: E73-W4-B Non-Fibers | 100 |
| 1924394-FM | 07-Jun-19 | Red | exterior pointing | No | Client ID: E365-W4-A Non-Fibers | 100 |
| 1924394-FN | 07-Jun-19 | Red | exterior pointing | No | Client ID: E305-W4-B Non-Fibers | 100 |
| 1924394-FO | 07-Jun-19 | Grey | exterior pointing | No | Client ID: E486-W4-A Non-Fibers | 100 |
| 1924394-FP | 07-Jun-19 | Grey | exterior pointing | No | Client ID: E492-W4-B Non-Fibers | 100 |
| 1924394-FQ | 07-Jun-19 | Grey | exterior pointing | No | Client ID: E498-W4-A Non-Fibers | 100 |
| 1924394-FR | 07-Jun-19 | White | Caulking | No | Client ID: E65-M11 Non-Fibers | 100 |
| 1924394-FS | 07-Jun-19 | White | Caulking | No | Client ID: E504-M11-E Non-Fibers | 100 |
| 1924394-FT.1 | 07-Jun-19 | White | Caulking | No | Client ID: E337-M11 Non-Fibers | [Z-01a] 100 |
| 1924394-FT.2 | 07-Jun-19 | White | Caulking | Yes | Client ID: E337-M11 Chrysotile Non-Fibers | [Z-01a] 1 99 |

Certificate of Analysis

Client: **GHD Limited (Ottawa)**

Client PO: **73516118**

Report Date: 19-Jun-2019

Order Date: 11-Jun-2019

Project Description: **11196110-E4**

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

| Parcel ID | Sample Date | Colour | Description | Asbestos Detected | Material Identification | % Content |
|--------------|-------------|-----------|------------------------|-------------------|-------------------------|-----------|
| 1924394-FU | 07-Jun-19 | White | Caulking | No | Client ID: E542-M12 | |
| | | | | | MMVF | 1 |
| | | | | | Non-Fibers | 99 |
| 1924394-FV.1 | 07-Jun-19 | White | Caulking | No | Client ID: E534-M12 | |
| | | | | | | [Z-01a] |
| | | | | | MMVF | 1 |
| 1924394-FV.2 | 07-Jun-19 | White | Caulking | No | Client ID: E534-M12 | |
| | | | | | | [Z-01a] |
| | | | | | Non-Fibers | 99 |
| 1924394-FW.1 | 07-Jun-19 | White | Caulking | No | Client ID: E534-M12 | |
| | | | | | | [Z-01a] |
| | | | | | Non-Fibers | 100 |
| 1924394-FW.2 | 07-Jun-19 | White | Caulking | No | Client ID: E820-M12 | |
| | | | | | | [Z-01a] |
| | | | | | Non-Fibers | 100 |
| 1924394-FX | 07-Jun-19 | Grey | Concrete wall Parge | No | Client ID: E502-W5-B | |
| | | | | | | |
| | | | | | Non-Fibers | 100 |
| 1924394-FY | 07-Jun-19 | Grey | Concrete wall Parge | No | Client ID: E83-W5-A | |
| | | | | | | |
| | | | | | Non-Fibers | 100 |
| 1924394-FZ | 07-Jun-19 | Grey | Concrete wall Parge | No | Client ID: E305-W5-B | |
| | | | | | | |
| | | | | | Non-Fibers | 100 |
| 1924394-GA.1 | 07-Jun-19 | Beige | Drywall Joint Compound | Yes | Client ID: 1-828-W1-B | |
| | | | | | Chrysotile | 1 |
| | | | | | Non-Fibers | 99 |
| 1924394-GA.2 | 07-Jun-19 | Off-white | Drywall Joint Compound | Yes | Client ID: 1-828-W1-B | |
| | | | | | Chrysotile | 1 |
| | | | | | Non-Fibers | 99 |

Certificate of Analysis

Report Date: 19-Jun-2019

Client: **GHD Limited (Ottawa)**

Order Date: 11-Jun-2019

Client PO: 73516118

Project Description: 11196110-E4

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

| Parcel ID | Sample Date | Colour | Description | Asbestos Detected | Material Identification | % Content |
|--------------|-------------|-----------|------------------------|-------------------|-------------------------|-----------|
| 1924394-GB | 07-Jun-19 | | | | Client ID: 1-820-W1-A | |
| | | | | | not analyzed | |
| 1924394-GC | 07-Jun-19 | | | | Client ID: 2-305-W1-F | |
| | | | | | not analyzed | |
| 1924394-GD | 07-Jun-19 | | | | Client ID: 2-319-W1-J | |
| | | | | | not analyzed | |
| 1924394-GE | 07-Jun-19 | | | | Client ID: 3-345-W1-K | |
| | | | | | not analyzed | |
| 1924394-GF | 07-Jun-19 | | | | Client ID: 3-353-W1-H | |
| | | | | | not analyzed | |
| 1924394-GG | 07-Jun-19 | | | | Client ID: 4-311-W1-H | |
| | | | | | not analyzed | |
| 1924394-GH | 07-Jun-19 | | | | Client ID: 4-323-W1-K | |
| | | | | | not analyzed | |
| 1924394-GI | 07-Jun-19 | | | | Client ID: 5-500-W1-N | |
| | | | | | not analyzed | |
| 1924394-GJ.1 | 07-Jun-19 | Beige | Drywall Joint Compound | Yes | Client ID: 5-492-W1-S | |
| | | | | | Chrysotile | 1 |
| | | | | | Non-Fibers | 99 |
| 1924394-GJ.2 | 07-Jun-19 | Off-white | Drywall Joint Compound | Yes | Client ID: 5-492-W1-S | |
| | | | | | Chrysotile | 1 |
| | | | | | Non-Fibers | 99 |
| 1924394-GK | 07-Jun-19 | | | | Client ID: 6-496-W1-R | |
| | | | | | not analyzed | |

Certificate of Analysis

Client: GHD Limited (Ottawa)

Client PO: 73516118

Report Date: 19-Jun-2019

Order Date: 11-Jun-2019

Project Description: 11196110-E4

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

| Parcel ID | Sample Date | Colour | Description | Asbestos Detected | Material Identification | % Content |
|------------|-------------|--------|-------------|-------------------|--|-----------|
| 1924394-GL | 07-Jun-19 | | | | Client ID: 6-488-W1-Q not analyzed | |
| 1924394-GM | 07-Jun-19 | | | | Client ID: 7-520-W1-T not analyzed | |
| 1924394-GN | 07-Jun-19 | | | | Client ID: 7-510-W1-Y not analyzed | |
| 1924394-GO | 07-Jun-19 | | | | Client ID: 8-538-W1-A not analyzed | |
| 1924394-GP | 07-Jun-19 | | | | Client ID: 8-59-W1-D not analyzed | |
| 1924394-GQ | 07-Jun-19 | | | | Client ID: 9-63-W1-DD not analyzed | |
| 1924394-GR | 07-Jun-19 | | | | Client ID: 9-71-W1-KK not analyzed | |
| 1924394-GS | 07-Jun-19 | | | | Client ID: 10-83-W1-II not analyzed | |
| 1924394-GT | 07-Jun-19 | | | | Client ID: 10-81-W1-HH not analyzed | |

* 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 | : - Ottawa West Lal | 200812-0 | | 18-Jun-19 |

* 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.

Certificate of Analysis

Client: GHD Limited (Ottawa)

Client PO: 73516118

Report Date: 19-Jun-2019

Order Date: 11-Jun-2019

Project Description: 11196110-E4

Qualifier Notes

Sample Qualifiers :

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

Z-01: Strongly recommend analysis of DJC present in sample bag.

Z-01a: Two different layers of white caulking in sample bag.

Work Order Revisions | Comments

None



| | | |
|---|--|---|
| Client Name: GHD | Project Reference: 11196110E4 | Turnaround Time: <input type="checkbox"/> Immediate <input type="checkbox"/> 1 Day <input type="checkbox"/> 4 Hour <input type="checkbox"/> 2 Day <input type="checkbox"/> 8 Hour <input type="checkbox"/> 3 Day <input checked="" type="checkbox"/> Regular |
| Contact Name: Zoe Jeaurond | Quote #: | |
| Address: 179 Colonnade Rd, Suite #400 Nepean, ON | PO #: TBD | |
| Telephone: 613-727-0510 | Email Address: zoe.jeaurond@ghd.com | |
| Date Required: _____ | | |

ASBESTOS & MOLD ANALYSIS

Matrix: ☐ Air ☒ Bulk ☐ Tape Lift ☐ Swab ☐ Other Regulatory Guideline: ☒ ON ☐ QC ☐ AB ☐ SK ☐ Other:
 Analyses: ☐ Microscopic Mold ☐ Culturable Mold ☐ Bacteria GRAM ☐ PCM Asbestos ☒ PLM Asbestos ☐ Chatfield Asbestos ☐ TEM Asbestos

| Paracel Order Number: | | | Air Volume (L) | Y=Yes Analysis Required | Asbestos - Bulk | Positive Stop |
|-----------------------|----------|---------------|----------------|----------------------------|--|-------------------------------------|
| Sample ID | | Sampling Date | | | Identify Distinct Building Materials to Be Analyzed (if not specified, all materials identified will be analyzed) * | |
| 1 | 538-F2-A | | | Y | VSE - pink + blue stones | <input checked="" type="checkbox"/> |
| 2 | 65-F2-G | 0 | | Y | | <input checked="" type="checkbox"/> |
| 3 | 488-F2-D | 0 | | Y | | <input checked="" type="checkbox"/> |
| 4 | 498-F3-G | 0 | | Y | VFT-12x12 CT tan w dark brown chunks | <input checked="" type="checkbox"/> |
| 5 | 83-F3-M | 6 | | Y | | <input checked="" type="checkbox"/> |
| 6 | 820-F3-A | 7 | | Y | VFT, 12x12 CT beige w brown streaks | <input checked="" type="checkbox"/> |
| 7 | 828-F4-A | 7 | | Y | | <input checked="" type="checkbox"/> |
| 8 | 518-F4-K | | | Y | | <input checked="" type="checkbox"/> |
| 9 | 357-F4-A | 2 | | Y | VSE - speckled beige + brown | <input checked="" type="checkbox"/> |
| 10 | 828-F5-A | 5 | | Y | | <input checked="" type="checkbox"/> |
| 11 | 828-F5-B | 3 | | Y | | <input checked="" type="checkbox"/> |
| 12 | 828-F5-C | 3 | | Y | | <input checked="" type="checkbox"/> |

* If left blank, all distinct materials identified in the samples will be analyzed and reported separately as per EPA 600/R-93/116. Additional charges will apply.

| | | | |
|--|---------------------------------------|-------------------------------------|------------------------------------|
| Comments: | | Method of Delivery: Walk-In | |
| Relinquished By (Sign): [Signature] | Received at Depot: [Signature] | Received at Lab: [Signature] | Verified By: [Signature] |
| Relinquished By (Print): JACQUELYN CAMPBELL | Date/Time: June 11/19 1:30p | Date/Time: June 11/19 4:00p | Date/Time: June 13/19 1:48p |

Parcel ID: 1924394



TRUSTE
RESPON
RELIABLE.



e: paracel@paracellabs.com

Chain of Custody
(Lab Use Only)

Page 2 of 23

| | | |
|---|-------------------------------------|---|
| Client Name: GHD | Project Reference: 119610E4 | Turnaround Time: <input type="checkbox"/> Immediate <input type="checkbox"/> 1 Day <input type="checkbox"/> 4 Hour <input type="checkbox"/> 2 Day <input type="checkbox"/> 8 Hour <input type="checkbox"/> 3 Day <input checked="" type="checkbox"/> Regular |
| Contact Name: Zoe Jeaurand | Quote #: | |
| Address: 179 Colonnade Rd, Suite #400 Nepean, ON K2E 7J4 | PO #: TBD | |
| Telephone: 613-727-0510 | Email Address: Zoe.jeaurand@ghd.com | |
| | | Date Required: _____ |

ASBESTOS & MOLD ANALYSIS

Matrix: ☐ Air ☒ Bulk ☐ Tape Lift ☐ Swab ☐ Other Regulatory Guideline: ☒ ON ☐ QC ☐ AB ☐ SK ☐ Other:
 Analyses: ☐ Microscopic Mold ☐ Culturable Mold ☐ Bacteria GRAM ☐ PCM Asbestos ☒ PLM Asbestos ☐ Chatfield Asbestos ☐ TEM Asbestos

| Parcel Order Number: | | | | Asbestos - Bulk | |
|----------------------|--------------|---|---|--|-------------------------------------|
| Sample ID | | | | Identify Distinct Building Materials to Be Analyzed (if not specified, all materials identified will be analyzed) * | Positive Stop? |
| 1 | 492-F6-H | 0 | Y | vinyl stair tread, brown | <input checked="" type="checkbox"/> |
| 2 | 828-F6-A | 1 | Y | | <input checked="" type="checkbox"/> |
| 3 | 532-F6-T | 0 | Y | | <input checked="" type="checkbox"/> |
| 4 | 329-F7-E | 2 | Y | | <input checked="" type="checkbox"/> |
| 5 | 498-F7-B | 5 | Y | VSF, beige + tan stones | <input checked="" type="checkbox"/> |
| 6 | 526-F7-C | + | Y | | <input checked="" type="checkbox"/> |
| 7 | 301-F8-A | 7 | Y | VFT, 12x12 brown w white + brown specs | <input checked="" type="checkbox"/> |
| 8 | 301-F8-B | 4 | Y | | <input checked="" type="checkbox"/> |
| 9 | 301-F8-C | 5 | Y | VFT, 12x12 beige w tan chunks | <input checked="" type="checkbox"/> |
| 10 | 518-F9-G | 3 | Y | | <input checked="" type="checkbox"/> |
| 11 | 305-F9-B | 7 | Y | | <input checked="" type="checkbox"/> |
| 12 | 305 488-F9-0 | | Y | | <input checked="" type="checkbox"/> |

* If left blank, all distinct materials identified in the samples will be analyzed and reported separately as per EPA 600/R-93/116. Additional charges will apply.

Comments:

Method of Delivery:

| | | | |
|--|---------------------------------------|-------------------------------------|---------------------------------|
| Relinquished By (Sign): <i>[Signature]</i> | Received at Depot: <i>[Signature]</i> | Received at Lab: <i>[Signature]</i> | Verified By: <i>[Signature]</i> |
| Relinquished By (Print): SALWELYN CURPHEY | Date/Time: June 11/19 1:30p | Date/Time: June 11/19 4:00p | Date/Time: June 11/19 1:48p |



| | | |
|--|--|---|
| Client Name: GHO | Project Reference: 11 19 6110 EH | Turnaround Time: <input type="checkbox"/> Immediate <input type="checkbox"/> 1 Day <input type="checkbox"/> 4 Hour <input type="checkbox"/> 2 Day <input type="checkbox"/> 8 Hour <input type="checkbox"/> 3 Day <input checked="" type="checkbox"/> Regular |
| Contact Name: Zoe Jeaurond | Quote #: | |
| Address: 179 Caonnade Rd, Suite #400 NEPEAN, ON K2E 7J4 | PO #: T80 | |
| Telephone: 613-727-0510 | Email Address: Zoe.jeaurond@ghd.com | |
| Date Required: | | |

ASBESTOS & MOLD ANALYSIS

Matrix: ☐ Air ☒ Bulk ☐ Tape Lift ☐ Swab ☐ Other Regulatory Guideline: ☒ ON ☐ QC ☐ AB ☐ SK ☐ Other:
 Analyses: ☐ Microscopic Mold ☐ Culturable Mold ☐ Bacteria GRAM ☐ PCM Asbestos ☒ PLM Asbestos ☐ Chatfield Asbestos ☐ TEM Asbestos

| Paracel Order Number: | | Sampling Date | Air Volume (L) | Analysis Required | Asbestos - Bulk | |
|-----------------------|-----------|---------------|----------------|-------------------|---|-------------------------------------|
| | | | | | Identify Distinct Building Materials to Be Analyzed (if not specified, all materials identified will be analyzed) * | Positive Stop? |
| Sample ID | | | | | | |
| 1 | 305-F10-A | 5 | | Y | VSF - mock brown wood | <input checked="" type="checkbox"/> |
| 2 | 305-F10-B | | | Y | | <input checked="" type="checkbox"/> |
| 3 | 305-F10-C | | | Y | | <input checked="" type="checkbox"/> |
| 4 | 514-F11-B | 01 | | Y | VSF - textured beige | <input checked="" type="checkbox"/> |
| 5 | 83-F11-C | | | Y | | <input checked="" type="checkbox"/> |
| 6 | 305-F11-A | | | Y | | <input checked="" type="checkbox"/> |
| 7 | 323-F12-D | 7 | | Y | VFT - 50/50 beige + brown | <input checked="" type="checkbox"/> |
| 8 | 329-F12-J | | | Y | | <input checked="" type="checkbox"/> |
| 9 | 540-F12-B | | | Y | | <input checked="" type="checkbox"/> |
| 10 | 486-F13-H | June | | Y | VFT - beige w little bit of brown flecks | <input checked="" type="checkbox"/> |
| 11 | 319-F13-B | | | Y | | <input checked="" type="checkbox"/> |
| 12 | 339-F13-K | | | Y | | <input checked="" type="checkbox"/> |

* If left blank, all distinct materials identified in the samples will be analyzed and reported separately as per EPA 600/R-93/116. Additional charges will apply.

| | | | |
|--|---------------------------------------|-------------------------------------|---------------------------------|
| Comments: | | Method of Delivery: | |
| Relinquished By (Sign): <i>[Signature]</i> | Received at Depot: <i>[Signature]</i> | Received at Lab: <i>[Signature]</i> | Verified By: <i>[Signature]</i> |
| Relinquished By (Print): JACQUELYN CURPHEY | Date/Time: June 11/19 1:30p | Date/Time: 06/11/19 4:00p | Date/Time: 06/13/19 1:48p |

Parcel ID: 1924394



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Page 4 of 22

| | | |
|---|--|---|
| Client Name: GHD | Project Reference: 11196110 E4 | Turnaround Time: <input type="checkbox"/> Immediate <input type="checkbox"/> 1 Day <input type="checkbox"/> 4 Hour <input type="checkbox"/> 2 Day <input type="checkbox"/> 8 Hour <input type="checkbox"/> 3 Day <input checked="" type="checkbox"/> Regular |
| Contact Name: Zoe Jeaurand | Quote #: | |
| Address: 179 Colonnade Rd, Suite #400 Nepean, ON | PO #: TBD | |
| Telephone: 613 727 0510 | Email Address: Zoe.jeaurand@ghd.com | |
| | | Date Required: _____ |

ASBESTOS & MOLD ANALYSIS

Matrix: ☐ Air ☒ Bulk ☐ Tape Lift ☐ Swab ☐ Other Regulatory Guideline: ☒ ON ☐ QC ☐ AB ☐ SK ☐ Other:
 Analyses: ☐ Microscopic Mold ☐ Culturable Mold ☐ Bacteria GRAM ☐ PCM Asbestos ☒ PLM Asbestos ☐ Chatfield Asbestos ☐ TEM Asbestos

| Parcel Order Number: | | Asbestos - Bulk | | | |
|----------------------|-----------|-----------------|----------------|-------------------|---|
| Sample ID | | Sampling Date | Air Volume (L) | Analysis Required | Identify Distinct Building Materials to Be Analyzed (if not specified, all materials identified will be analyzed) * |
| 1 | 63-F14-C | 9 | | Y | |
| 2 | 311-F14-A | 10 | | Y | VSF, mock 12x12 CT, tan + brown |
| 3 | 359-F14-A | 10 | | Y | |
| 4 | 311-F15-A | 10 | | Y | VSF-mock 12x12 CT, dark brown |
| 5 | 311-F15-B | 10 | | Y | |
| 6 | 311-F15-C | 10 | | Y | |
| 7 | 81-F16-F | 10 | | Y | VFT-grey w streaks |
| 8 | 520-F16-C | 10 | | Y | |
| 9 | 315-F16-A | 10 | | Y | |
| 10 | 315-F17-A | 10 | | Y | VSF-mock 12x36, brown slate |
| 11 | 315-F17-B | 10 | | Y | |
| 12 | 315-F17-C | 10 | | Y | |

* If left blank, all distinct materials identified in the samples will be analyzed and reported separately as per EPA 600/R-93/116. Additional charges will apply.

| | | | |
|--|---------------------------------------|-------------------------------------|------------------------------------|
| Comments: | | Method of Delivery: | |
| Relinquished By (Sign): <i>[Signature]</i> | Received at Depot: <i>[Signature]</i> | Received at Lab: <i>[Signature]</i> | Verified By: <i>[Signature]</i> |
| Relinquished By (Print): JACQUELYN LURNEY | Date/Time: June 11/19 1:30p | Date/Time: June 11/19 4:00p | Date/Time: June 11/19 1:48p |

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Page 5 of 22

| | | |
|---|-------------------------------------|---|
| Client Name: GHD | Project Reference: 11196110E4 | Turnaround Time: <input type="checkbox"/> Immediate <input type="checkbox"/> 1 Day <input type="checkbox"/> 4 Hour <input type="checkbox"/> 2 Day <input type="checkbox"/> 8 Hour <input type="checkbox"/> 3 Day <input checked="" type="checkbox"/> Regular |
| Contact Name: Zoe Jeaurond | Quote #: | |
| Address: 179 Colonnade Rd, Suite #400 Nepean, ON K2E 7J4 | PO #: TBD | |
| Telephone: 613-727-0510 | Email Address: zoe.jeaurond@ghd.com | |
| Date Required: | | |

ASBESTOS & MOLD ANALYSIS

Matrix: ☐ Air ☒ Bulk ☐ Tape Lift ☐ Swab ☐ Other Regulatory Guideline: ☒ ON ☐ QC ☐ AB ☐ SK ☐ Other:

Analyses: ☐ Microscopic Mold ☐ Culturable Mold ☐ Bacteria GRAM ☐ PCM Asbestos ☒ PLM Asbestos ☐ Chatfield Asbestos ☐ TEM Asbestos

| Paracel Order Number: | | | | Asbestos - Bulk | |
|-----------------------|-----------|---|---|--|-------------------------------------|
| Sample ID | | | | Identify Distinct Building Materials to Be Analyzed (if not specified, all materials identified will be analyzed) * | Positive Stop? |
| 1 | 319-F18-A | 9 | Y | VSF - beige and pink flat stones | <input checked="" type="checkbox"/> |
| 2 | 319-F18-B | | Y | | <input checked="" type="checkbox"/> |
| 3 | 319-F18-C | | Y | | <input checked="" type="checkbox"/> |
| 4 | 323-F20-A | 2 | Y | VSF - white textured | <input checked="" type="checkbox"/> |
| 5 | 323-F20-B | | Y | | <input checked="" type="checkbox"/> |
| 6 | 323-F20-C | | Y | | <input checked="" type="checkbox"/> |
| 7 | 325-F21-B | 2 | Y | VSF - white mock tiles | <input checked="" type="checkbox"/> |
| 8 | 490-F21-C | | Y | | <input checked="" type="checkbox"/> |
| 9 | 81-F21-D | 4 | Y | | <input checked="" type="checkbox"/> |
| 10 | 325-F22-A | 2 | Y | Vinyl sheet, mock wood, dark grey | <input checked="" type="checkbox"/> |
| 11 | 339-F22-A | 3 | Y | | <input checked="" type="checkbox"/> |
| 12 | 492-F22-B | 7 | Y | | <input checked="" type="checkbox"/> |

* If left blank, all distinct materials identified in the samples will be analyzed and reported separately as per EPA 600/R-93/116. Additional charges will apply.

| | | | |
|--|---------------------------------------|-------------------------------------|---------------------------------|
| Comments: | | Method of Delivery: | |
| Relinquished By (Sign): <i>Jacquelyn</i> | Received at Depot: <i>[Signature]</i> | Received at Lab: <i>[Signature]</i> | Verified By: <i>[Signature]</i> |
| Relinquished By (Print): JACQUELYN CHARNEY | Date/Time: June 11/19 1:30p | Date/Time: June 11/19 4:00p | Date/Time: June 11/19 1:48p |

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Chain of Custody
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Page 6. of . 23

| | | |
|---|-------------------------------------|---|
| Client Name: GHD | Project Reference: 11 19 61 10 E4 | Turnaround Time: <input type="checkbox"/> Immediate <input type="checkbox"/> 1 Day <input type="checkbox"/> 4 Hour <input type="checkbox"/> 2 Day <input type="checkbox"/> 8 Hour <input type="checkbox"/> 3 Day <input checked="" type="checkbox"/> Regular |
| Contact Name: Zoe Jeaurond | Quote #: | |
| Address: 179 Colonnade Rd, Suite #400 Nepean, ON | PO #: TBD | |
| Telephone: 613-727-0510 | Email Address: zoe.jeaurond@ghd.com | |
| Date Required: _____ | | |

ASBESTOS & MOLD ANALYSIS

Matrix: ☐ Air ☒ Bulk ☐ Tape Lift ☐ Swab ☐ Other Regulatory Guideline: ☒ ON ☐ QC ☐ AB ☐ SK ☐ Other:

Analyses: ☐ Microscopic Mold ☐ Culturable Mold ☐ Bacteria GRAM ☐ PCM Asbestos ☒ PLM Asbestos ☐ Chatfield Asbestos ☐ TEM Asbestos

| Paracel Order Number: | | | Air Volume (L) | Analysis Required | Asbestos - Bulk | |
|-----------------------|-----------|------------------|----------------------|----------------------|--|-------------------------------------|
| | | | | | Identify Distinct Building Materials to Be Analyzed (if not specified, all materials identified will be analyzed) * | Positive Stop? |
| Sample ID | | Sampling Date | | | | |
| 1 | 325-F23-A | June 7th, 2019 | | Y | vinyl stair tread, black | <input checked="" type="checkbox"/> |
| 2 | 325-F23-B | | | Y | | <input checked="" type="checkbox"/> |
| 3 | 325-F23-C | | | Y | | <input checked="" type="checkbox"/> |
| 4 | 510-F24-G | | | Y | VSF, mock tiles, brown | <input checked="" type="checkbox"/> |
| 5 | 325-F24-A | | | Y | | <input checked="" type="checkbox"/> |
| 6 | 506-F24-E | | | Y | | <input checked="" type="checkbox"/> |
| 7 | 532-F25-C | | | Y | VSF - mock wood, thin brown 2" cherry brown | <input checked="" type="checkbox"/> |
| 8 | 532-F25-E | | | Y | | <input checked="" type="checkbox"/> |
| 9 | 532-F25-A | | | Y | | <input checked="" type="checkbox"/> |
| 10 | 500-F27-B | | | Y | VFT - offwhite w beige flecs | <input checked="" type="checkbox"/> |
| 11 | 500-F27-A | | | Y | | <input checked="" type="checkbox"/> |
| 12 | 500-F27-C | | | Y | | <input checked="" type="checkbox"/> |

* If left blank, all distinct materials identified in the samples will be analyzed and reported separately as per EPA 600/R-93/116. Additional charges will apply.

| | | | |
|--|---------------------------------------|-------------------------------------|---------------------------------|
| Comments: | | Method of Delivery: | |
| Relinquished By (Sign): <i>[Signature]</i> | Received at Depot: <i>[Signature]</i> | Received at Lab: <i>[Signature]</i> | Verified By: <i>[Signature]</i> |
| Relinquished By (Print): JACQUELYN CUPPHEE | Date/Time: June 11/19 1:30p | Date/Time: June 11/19 4:00p | Date/Time: June 11/19 1:48p |



| | | |
|--|--|---|
| Client Name: GHD | Project Reference: 11 1961 10 E4 | Turnaround Time: <input type="checkbox"/> Immediate <input type="checkbox"/> 1 Day <input type="checkbox"/> 4 Hour <input type="checkbox"/> 2 Day <input type="checkbox"/> 8 Hour <input type="checkbox"/> 3 Day <input checked="" type="checkbox"/> Regular |
| Contact Name: Zoe Jeaurand | Quote #: | |
| Address: 179 Colonnade Rd, suite #400 Nepean ON | PO #: TBD | |
| Telephone: 613-727-0510 | Email Address: zoe.jeaurand@gnd.com | |
| Date Required: | | |

ASBESTOS & MOLD ANALYSIS

Matrix: ☐ Air ☒ Bulk ☐ Tape Lift ☐ Swab ☐ Other **Regulatory Guideline:** ☒ ON ☐ QC ☐ AB ☐ SK ☐ Other:

Analyses: ☐ Microscopic Mold ☐ Culturable Mold ☐ Bacteria GRAM ☐ PCM Asbestos ☒ PLM Asbestos ☐ Chatfield Asbestos ☐ TEM Asbestos

| Paracel Order Number: | | Sampling Date | Air Volume (L) | Analysis Required | Asbestos - Bulk | |
|-----------------------|-----------|---------------|----------------|-------------------|--|-------------------------------------|
| | | | | | Identify Distinct Building Materials to Be Analyzed (if not specified, all materials identified will be analyzed) * | Positive Stop? |
| Sample ID | | | | | | |
| 1 | 500-F28-A | 19 | | Y | VFT, beige with almost green | <input checked="" type="checkbox"/> |
| 2 | 500-F28-B | | | Y | | <input checked="" type="checkbox"/> |
| 3 | 500-F28-C | | | Y | | <input checked="" type="checkbox"/> |
| 4 | 534-F29-A | 20 | | Y | VFS, mock 12x12 brown tile | <input checked="" type="checkbox"/> |
| 5 | 534-F29-B | | | Y | | <input checked="" type="checkbox"/> |
| 6 | 534-F29-C | 7 | | Y | VSF | <input checked="" type="checkbox"/> |
| 7 | 502-F30-A | | | Y | | <input checked="" type="checkbox"/> |
| 8 | 514-F30-B | | | Y | | <input checked="" type="checkbox"/> |
| 9 | 510-F30-C | 6 | | Y | V5F, mock wood tile, grey and knots | <input checked="" type="checkbox"/> |
| 10 | 488-F32-B | | | Y | | <input checked="" type="checkbox"/> |
| 11 | 524-F32-D | | | Y | | <input checked="" type="checkbox"/> |
| 12 | 329-F32-E | 5 | | Y | VFT, olive green 9x9 with white flecks | <input checked="" type="checkbox"/> |
| | | | | Y | | <input checked="" type="checkbox"/> |

* If left blank, all distinct materials identified in the samples will be analyzed and reported separately as per EPA 600/R-93/116. Additional charges will apply.

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| Comments: | Method of Delivery: |
|-----------|---------------------|

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|--|---------------------------------------|-------------------------------------|---------------------------------|
| Relinquished By (Sign): <i>[Signature]</i> | Received at Depot: <i>[Signature]</i> | Received at Lab: <i>[Signature]</i> | Verified By: <i>[Signature]</i> |
| Relinquished By (Print): SALUWELYN CURPHE | Date/Time: June 11/19 1:30p | Date/Time: June 19 4:00p | Date/Time: June 27 1:48p |

Paracel ID: 1924394



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Page 8 of 22

| | | |
|---|-------------------------------------|---|
| Client Name: GHD | Project Reference: 11 19 61 10 E4 | Turnaround Time: <input type="checkbox"/> Immediate <input type="checkbox"/> 1 Day <input type="checkbox"/> 4 Hour <input type="checkbox"/> 2 Day <input type="checkbox"/> 8 Hour <input type="checkbox"/> 3 Day <input checked="" type="checkbox"/> Regular |
| Contact Name: Zoe Jeaurond | Quote #: | |
| Address: 179 Colonnade Rd, Suite #400 Nepean, ON | PO #: TBD | |
| Telephone: 613-727-0510 | Email Address: Zoe.jeaurond@gnd.com | |
| Date Required: | | |

ASBESTOS & MOLD ANALYSIS

Matrix: ☐ Air ☒ Bulk ☐ Tape Lift ☐ Swab ☐ Other Regulatory Guideline: ☒ ON ☐ QC ☐ AB ☐ SK ☐ Other:

Analyses: ☐ Microscopic Mold ☐ Culturable Mold ☐ Bacteria GRAM ☐ PCM Asbestos ☒ PLM Asbestos ☐ Chatfield Asbestos ☐ TEM Asbestos

| Parcel Order Number: | | | | | Asbestos - Bulk | |
|----------------------|-----------|---------------|----------------|-------------------|---|-------------------------------------|
| Sample ID | | Sampling Date | Air Volume (L) | Analysis Required | Identify Distinct Building Materials to Be Analyzed (if not specified, all materials identified will be analyzed) * | Positive Stop? |
| 1 | 490-F33-A | | | Y | vinyl mock hardwood, light brown | <input checked="" type="checkbox"/> |
| 2 | 490-F33-B | 5 | | Y | | <input checked="" type="checkbox"/> |
| 3 | 490-F33-C | 1 | | Y | | <input checked="" type="checkbox"/> |
| 4 | 357-F34-A | 0 | | Y | vinyl mock hardwood, honey oak | <input checked="" type="checkbox"/> |
| 5 | 522-F34-D | 2 | | Y | | <input checked="" type="checkbox"/> |
| 6 | 327-F34-B | | | Y | | <input checked="" type="checkbox"/> |
| 7 | 496-F35-B | 7 | | Y | white textured VSF 4.5in x 4.5in | <input checked="" type="checkbox"/> |
| 8 | 496-F35-A | 2 | | Y | | <input checked="" type="checkbox"/> |
| 9 | 355-F35-A | 1 | | Y | | <input checked="" type="checkbox"/> |
| 10 | 496-F36-A | 3 | | Y | VFT-12x12 white+black w flower | <input checked="" type="checkbox"/> |
| 11 | 496-F36-B | 7 | | Y | | <input checked="" type="checkbox"/> |
| 12 | 496-F36-C | | | Y | | <input checked="" type="checkbox"/> |

* If left blank, all distinct materials identified in the samples will be analyzed and reported separately as per EPA 600/R-93/116. Additional charges will apply.

| | | | |
|--|---------------------------------------|-------------------------------------|---------------------------------|
| Comments: | | Method of Delivery: | |
| Relinquished By (Sign): <i>[Signature]</i> | Received at Depot: <i>[Signature]</i> | Received at Lab: <i>[Signature]</i> | Verified By: <i>[Signature]</i> |
| Relinquished By (Print): JACQUELYN CUAPEY | Date/Time: June 11/19 1:30p | Date/Time: June 11/19 4:00p | Date/Time: June 13/19 1:48p |

Paracel ID: 1924394



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Page 9. of 22

| | | |
|--|-------------------------------------|---|
| Client Name: GHD | Project Reference: 111961 10 E4 | Turnaround Time: <input type="checkbox"/> Immediate <input type="checkbox"/> 1 Day <input type="checkbox"/> 4 Hour <input type="checkbox"/> 2 Day <input type="checkbox"/> 8 Hour <input type="checkbox"/> 3 Day <input checked="" type="checkbox"/> Regular |
| Contact Name: Zoe Jeaurond | Quote #: | |
| Address: 179 Colonnade Rd, Suite #400 Nepean ON | PO #: TBD | |
| Telephone: 613-727-0510 | Email Address: Zoe.Jeaurond@GHD.com | |
| | | Date Required: _____ |

ASBESTOS & MOLD ANALYSIS

Matrix: ☐ Air ☒ Bulk ☐ Tape Lift ☐ Swab ☐ Other Regulatory Guideline: ☒ ON ☐ QC ☐ AB ☐ SK ☐ Other:

Analyses: ☐ Microscopic Mold ☐ Culturable Mold ☐ Bacteria GRAM ☐ PCM Asbestos ☒ PLM Asbestos ☐ Chatfield Asbestos ☐ TEM Asbestos

| Paracel Order Number: | | | Air Volume (L) | Analysis Required | Asbestos - Bulk | |
|-----------------------|------------------------------------|---------------|----------------|-------------------|---|-------------------------------------|
| Sample ID | | Sampling Date | | | Identify Distinct Building Materials to Be Analyzed (if not specified, all materials identified will be analyzed) * | Positive Stop? |
| 1 | 496-F37-A | 9 | | Y | VFT, 12x12, white and black with flower | <input checked="" type="checkbox"/> |
| 2 | 496-F37-B | 1 | | Y | | <input checked="" type="checkbox"/> |
| 3 | 496-F37-C | 0 | | Y | | <input checked="" type="checkbox"/> |
| 4 | 496-F38-A | 2 | | Y | VFT, beige with light streaks | <input checked="" type="checkbox"/> |
| 5 | 327-F38-B | | | Y | | <input checked="" type="checkbox"/> |
| 6 | 329-F38-C | - | | Y | | <input checked="" type="checkbox"/> |
| 7 | 522-F39-A | 7 | | Y | VFT - 9x9 beige with pink textured | <input checked="" type="checkbox"/> |
| 8 | 522-F39-B | | | Y | | <input checked="" type="checkbox"/> |
| 9 | 522-F39-C | 4 | | Y | | <input checked="" type="checkbox"/> |
| 10 | 520-F40-A | 2 | | Y | VFT, 12x12, 4 blue square pattern | <input checked="" type="checkbox"/> |
| 11 | 520-F40-B IL. 333-F40-B | 3 | | Y | | <input checked="" type="checkbox"/> |
| 12 | 520-F40-C | 7 | | Y | | <input checked="" type="checkbox"/> |

* If left blank, all distinct materials identified in the samples will be analyzed and reported separately as per EPA 600/R-93/116. Additional charges will apply.

| | | | |
|--|-----------------------------|-----------------------------|---------------------------|
| Comments: | | Method of Delivery: | |
| Relinquished By (Sign): | Received at Depot: | Received at Lab: | Verified By: |
| Relinquished By (Print): JACQUELYN CURPHEY | Date/Time: June 11/19 1:30p | Date/Time: 06/11/2019 4:00p | Date/Time: 06/13/19 1:48p |

Parcel ID: 1924394



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Chain of Custody
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Page 10. of 22

| | | |
|---|-------------------------------------|---|
| Client Name: GHD | Project Reference: 11 19 61 10 EH | Turnaround Time: <input type="checkbox"/> Immediate <input type="checkbox"/> 1 Day <input type="checkbox"/> 4 Hour <input type="checkbox"/> 2 Day <input type="checkbox"/> 8 Hour <input type="checkbox"/> 3 Day <input checked="" type="checkbox"/> Regular |
| Contact Name: Zoe Jeaurond | Quote #: | |
| Address: 179 Colonnade Rd, Suite #400 Nepean, ON | PO #: TBD | |
| Telephone: 613-727-0510 | Email Address: Zoe.jeaurond@ghd.com | |
| | | Date Required: _____ |

ASBESTOS & MOLD ANALYSIS

Matrix: ☐ Air ☒ Bulk ☐ Tape Lift ☐ Swab ☐ Other Regulatory Guideline: ☒ ON ☐ QC ☐ AB ☐ SK ☐ Other:
 Analyses: ☐ Microscopic Mold ☐ Culturable Mold ☐ Bacteria GRAM ☐ PCM Asbestos ☒ PLM Asbestos ☐ Chatfield Asbestos ☐ TEM Asbestos

| Parcel Order Number: | | | | Asbestos - Bulk | | | | |
|----------------------|-----------|---|--|-----------------|---|-------------------------------------|---|----------------|
| Sample ID | | | | Sampling Date | Air Volume (L) | Analysis Required | Identify Distinct Building Materials to Be Analyzed (if not specified, all materials identified will be analyzed) * | Positive Stop? |
| 1 | 520-F41-A | 5 | | Y | VSF-12x12 CT, beige w tan | | <input checked="" type="checkbox"/> | |
| 2 | 520-F41-B | 1 | | Y | | <input checked="" type="checkbox"/> | | |
| 3 | 520-F41-C | 0 | | Y | | <input checked="" type="checkbox"/> | | |
| 4 | 520-F42-A | 0 | | Y | VSF-12x12 mock CT, beige w center diamond | | <input checked="" type="checkbox"/> | |
| 5 | 520-F42-B | | | Y | | <input checked="" type="checkbox"/> | | |
| 6 | 520-F42-C | 1 | | Y | | <input checked="" type="checkbox"/> | | |
| 7 | 510-F43-A | | | Y | VSF-mock 12x12 CT textured beige + tan | | <input checked="" type="checkbox"/> | |
| 8 | 510-F43-B | 2 | | Y | | <input checked="" type="checkbox"/> | | |
| 9 | 510-F43-C | 2 | | Y | | <input checked="" type="checkbox"/> | | |
| 10 | 524-F44-A | 3 | | Y | VSF-mock 9x9 CT beige w streaks | | <input checked="" type="checkbox"/> | |
| 11 | 524-F44-B | 3 | | Y | | <input checked="" type="checkbox"/> | | |
| 12 | 524-F44-C | | | Y | | <input checked="" type="checkbox"/> | | |

* If left blank, all distinct materials identified in the samples will be analyzed and reported separately as per EPA 600/R-93/116. Additional charges will apply.

Comments:

Method of Delivery:

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|--|---------------------------------------|-------------------------------------|---------------------------------|
| Relinquished By (Sign): <i>[Signature]</i> | Received at Depot: <i>[Signature]</i> | Received at Lab: <i>[Signature]</i> | Verified By: <i>[Signature]</i> |
| Relinquished By (Print): JACQUELYN CURPHEI | Date/Time: June 11/19 1:30p | Date/Time: 06/11/19 4:00p | Date/Time: 06/13/19 1:48pm |

Paracel ID: 1924394



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Page 11. of 22

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|--|-------------------------------------|---|
| Client Name: GHD | Project Reference: 11196110E4 | Turnaround Time: <input type="checkbox"/> Immediate <input type="checkbox"/> 1 Day <input type="checkbox"/> 4 Hour <input type="checkbox"/> 2 Day <input type="checkbox"/> 8 Hour <input type="checkbox"/> 3 Day <input checked="" type="checkbox"/> Regular |
| Contact Name: Zoe Seaurond | Quote #: | |
| Address: 179 Colonnade Rd, Suite #400 Nepean ON | PO #: TBD | |
| Telephone: 613-727-0510 | Email Address: Zoe.Seaurond@GHD.com | |
| Date Required: _____ | | |

ASBESTOS & MOLD ANALYSIS

Matrix: ☐ Air ☒ Bulk ☐ Tape Lift ☐ Swab ☐ Other **Regulatory Guideline:** ☒ ON ☐ QC ☐ AB ☐ SK ☐ Other:

Analyses: ☐ Microscopic Mold ☐ Culturable Mold ☐ Bacteria GRAM ☐ PCM Asbestos ☒ PLM Asbestos ☐ Chatfield Asbestos ☐ TEM Asbestos

| Paracel Order Number: | | | Air Volume (L) | Analysis Required | Asbestos - Bulk | |
|-----------------------|-----------|------------------|----------------------|----------------------|--|-------------------------------------|
| | | | | | Identify Distinct Building Materials to Be Analyzed (if not specified, all materials identified will be analyzed) * | Positive Stop? |
| Sample ID | | Sampling Date | | | | |
| 1 | 355-F45-A | 9 | | Y | VSF, 9x9 mock CT, beige and tan textured | <input checked="" type="checkbox"/> |
| 2 | 345-F45-B | 1 | | Y | | <input checked="" type="checkbox"/> |
| 3 | 345-F45-D | 0 | | Y | | <input checked="" type="checkbox"/> |
| 4 | 524-F46-A | 2 | | Y | VSF, 6x6 mock CT, beige with tan diamond | <input checked="" type="checkbox"/> |
| 5 | 524-F46-B | | | Y | | <input checked="" type="checkbox"/> |
| 6 | 524-F46-C | | | Y | | <input checked="" type="checkbox"/> |
| 7 | 339-F47-A | 2 | | Y | VSF, 6x6 mock CT, beige and tan | <input checked="" type="checkbox"/> |
| 8 | 339-F47-B | | | Y | | <input checked="" type="checkbox"/> |
| 9 | 524-F47-A | 4 | | Y | | <input checked="" type="checkbox"/> |
| 10 | 532-F48-A | 2 | | Y | VFT, 12x12 with 4in beige tiles | <input checked="" type="checkbox"/> |
| 11 | 532-F48-B | 3 | | Y | | <input checked="" type="checkbox"/> |
| 12 | 532-F48-C | 5 | | Y | | <input checked="" type="checkbox"/> |

* If left blank, all distinct materials identified in the samples will be analyzed and reported separately as per EPA 600/R-93/116. Additional charges will apply.

| | | | |
|--|---------------------------------------|-------------------------------------|---------------------------------|
| Comments: | | Method of Delivery: | |
| Relinquished By (Sign): <i>[Signature]</i> | Received at Depot: <i>[Signature]</i> | Received at Lab: <i>[Signature]</i> | Verified By: <i>[Signature]</i> |
| Relinquished By (Print): JACQUELYN CURRHEY | Date/Time: June 11/19 1:30p | Date/Time: June 11/19 4:00pm | Date/Time: June 13/19 1:48pm |

Paracel ID: 1924394



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e: paracel@paracellabs.com

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Page 12. of 22

| | | |
|--|--|---|
| Client Name: GHD | Project Reference: 11196110 E4 | Turnaround Time: <input type="checkbox"/> Immediate <input type="checkbox"/> 1 Day <input type="checkbox"/> 4 Hour <input type="checkbox"/> 2 Day <input type="checkbox"/> 8 Hour <input type="checkbox"/> 3 Day <input checked="" type="checkbox"/> Regular |
| Contact Name: Zoe Jeaurond | Quote #: | |
| Address: 179 Colonnade Rd, Suite #400 Nepean ON | PO #: TBD | |
| Telephone: 613-727-0510 | Email Address: Zoe.jeaurond@ghd.com | |
| Date Required: _____ | | |

ASBESTOS & MOLD ANALYSIS

Matrix: ☐ Air ☒ Bulk ☐ Tape Lift ☐ Swab ☐ Other **Regulatory Guideline:** ☒ ON ☐ QC ☐ AB ☐ SK ☐ Other:
Analyses: ☐ Microscopic Mold ☐ Culturable Mold ☐ Bacteria GRAM ☐ PCM Asbestos ☒ PLM Asbestos ☐ Chatfield Asbestos ☐ TEM Asbestos

| Paracel Order Number: | | | | Asbestos - Bulk | |
|-----------------------|----------------|-------------------|---------------------------------|--|----------------|
| Sample ID | | | | Identify Distinct Building Materials to Be Analyzed (if not specified, all materials identified will be analyzed) * | Positive Stop? |
| Sampling Date | Air Volume (L) | Analysis Required | | | |
| 1 327-F49-A | 5 | Y | VFT, 12x12 pinkish grey | | |
| 2 327-F49-B | 1 | Y | | | |
| 3 327-F49-C | 0 | Y | mock hardwood, maple thin lines | | |
| 4 327-F50-A | 0 | Y | | | |
| 5 327-F50-B | | Y | VSF - big beige + pink stones | | |
| 6 327-F50-C | 1 | Y | | | |
| 7 327-F51-A | | Y | mock hardwood, brown + beige | | |
| 8 327-F51-B | 2 | Y | | | |
| 9 327-F51-C | 3 | Y | | | |
| 10 327-F52-A | 7 | Y | | | |
| 11 327-F52-B | | Y | | | |
| 12 327-F52-C | | Y | | | |

* If left blank, all distinct materials identified in the samples will be analyzed and reported separately as per EPA 600/R-93/116. Additional charges will apply.

| | | | |
|--|---------------------------------------|-------------------------------------|---------------------------------|
| Comments: | | Method of Delivery: | |
| Relinquished By (Sign): <i>[Signature]</i> | Received at Depot: <i>[Signature]</i> | Received at Lab: <i>[Signature]</i> | Verified By: <i>[Signature]</i> |
| Relinquished By (Print): JACQUELYN CURPHE | Date/Time: June 11/19 1:30p | Date/Time: 06/11/19 4:00p | Date/Time: 06/13/19 1:48pm |

Parcel ID: 1924394



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Chain of Custody
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Page 13 of 23

| | | |
|---|------------------------------------|---|
| Client Name: GHD | Project Reference: 11196110E4 | Turnaround Time: <input type="checkbox"/> Immediate <input type="checkbox"/> 1 Day <input type="checkbox"/> 4 Hour <input type="checkbox"/> 2 Day <input type="checkbox"/> 8 Hour <input type="checkbox"/> 3 Day <input checked="" type="checkbox"/> Regular |
| Contact Name: Zoe Jeurond | Quote #: | |
| Address: 179 Colonnade Rd, Suite #400 Nepean, ON | PO #: TBD | |
| Telephone: 613-727-0510 | Email Address: Zoe.Jeurond@GHD.com | |
| | | Date Required: _____ |

ASBESTOS & MOLD ANALYSIS

Matrix: ☐ Air ☒ Bulk ☐ Tape Lift ☐ Swab ☐ Other Regulatory Guideline: ☒ ON ☐ QC ☐ AB ☐ SK ☐ Other:
 Analyses: ☐ Microscopic Mold ☐ Culturable Mold ☐ Bacteria GRAM ☐ PCM Asbestos ☒ PLM Asbestos ☐ Chatfield Asbestos ☐ TEM Asbestos

| Parcel Order Number: | | Asbestos - Bulk | | | |
|----------------------|-----------|-----------------|----------------|-------------------|---|
| Sample ID | | Sampling Date | Air Volume (L) | Analysis Required | Identify Distinct Building Materials to Be Analyzed (if not specified, all materials identified will be analyzed) * |
| 1 | 333-F53-A | 5 | | Y | VFT, 12x12 mock CT brown with dove |
| 2 | 333-F53-B | - | | Y | sc pattern |
| 3 | 333-F53-C | 0 | | Y | |
| 4 | 333-F54-A | 0 | | Y | VSF, 3x3 mock white with tulips |
| 5 | 333-F54-B | | | Y | |
| 6 | 333-F54-C | - | | Y | |
| 7 | 333-F55-A | 0 | | Y | VSF, tan and beige pebbles |
| 8 | 335-F55-B | | | Y | |
| 9 | 63-F55-B | W | | Y | |
| 10 | 335-F56-A | 2 | | Y | VFT, 9x9 dark brown |
| 11 | 335-F56-B | 3 | | Y | |
| 12 | 335-F56-C | W | | Y | |

* If left blank, all distinct materials identified in the samples will be analyzed and reported separately as per EPA 600/R-93/116. Additional charges will apply.

| | | | |
|--|-------------------------------|-----------------------------|---------------------------|
| Comments: | | Method of Delivery: | |
| Relinquished By (Sign): <i>Jacquelyn Curphey</i> | Received at Depot: <i>SCZ</i> | Received at Lab: <i>SCZ</i> | Verified By: <i>SCZ</i> |
| Relinquished By (Print): JACQUELYN CURPHEY | Date/Time: June 11/19 1:30p | Date/Time: 06/11/19 4:00p | Date/Time: 06/13/19 1:48p |

Paracel ID: 1924394



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Chain of Custody
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Page 14. of 23

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|---|--|---|
| Client Name: GHD | Project Reference: 1196110 E4 | Turnaround Time: <input type="checkbox"/> Immediate <input type="checkbox"/> 1 Day <input type="checkbox"/> 4 Hour <input type="checkbox"/> 2 Day <input type="checkbox"/> 8 Hour <input type="checkbox"/> 3 Day <input checked="" type="checkbox"/> Regular |
| Contact Name: Zoe Jeaurond | Quote #: | |
| Address: 179 Colonnade Rd, Suite #400 Nepean, ON | PO #: TBD | |
| Telephone: 613-727-0510 | Email Address: Zoe.jeaurond@ghd.com | |
| Date Required: _____ | | |

ASBESTOS & MOLD ANALYSIS

Matrix: ☐ Air ☒ Bulk ☐ Tape Lift ☐ Swab ☐ Other Regulatory Guideline: ☒ ON ☐ QC ☐ AB ☐ SK ☐ Other:
 Analyses: ☐ Microscopic Mold ☐ Culturable Mold ☐ Bacteria GRAM ☐ PCM Asbestos ☒ PLM Asbestos ☐ Chatfield Asbestos ☐ TEM Asbestos

| Paracel Order Number: | | Asbestos - Bulk | | | |
|-----------------------|-----------|-----------------|----------------|-------------------|---|
| Sample ID | | Sampling Date | Air Volume (L) | Analysis Required | Identify Distinct Building Materials to Be Analyzed (if not specified, all materials identified will be analyzed) * |
| 1 | 335-F57-A | 5 | | Y | VFT-12x12 beige w diamond design |
| 2 | 335-F57-B | | | Y | |
| 3 | 335-F57-C | | | Y | |
| 4 | 335-F58-A | 2019 | | Y | |
| 5 | 335-F58-B | | | Y | VFT-12x12 brown, white, beige streaks |
| 6 | 335-F58-C | | | Y | |
| 7 | 333-F59-A | 7 | | Y | |
| 8 | 333-F59-B | | | Y | mock hardwood, grey + beige |
| 9 | 333-F59-C | | | Y | |
| 10 | 337-F60-A | 2 | | Y | |
| 11 | 337-F60-B | 3 | | Y | vinyl floor tread white |
| 12 | 337-F60-C | 3 | | Y | |

* If left blank, all distinct materials identified in the samples will be analyzed and reported separately as per EPA 600/R-93/116. Additional charges will apply.

Comments:

Method of Delivery:

Relinquished By (Sign): *JLW*Received at Depot: *SCZ*Received at Lab: *[Signature]*Verified By: *[Signature]*

Relinquished By (Print): JACQUELYN CURPHEE

Date/Time: 1:30pm 11 JUNE 2019

Date/Time: June 11/19 1:30p

Date/Time: June 19 4:00pm

Date/Time: June 19 1:45pm

Paracel ID: 1924394



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Page 15. of 23

| | | |
|---|-------------------------------------|--|
| Client Name: GHD | Project Reference: 11196110E4 | Turnaround Time: <input type="checkbox"/> Immediate <input type="checkbox"/> 1 Day <input type="checkbox"/> 4 Hour <input type="checkbox"/> 2 Day <input type="checkbox"/> 8 Hour <input checked="" type="checkbox"/> 3 Day <input checked="" type="checkbox"/> Regular |
| Contact Name: Zoe Jeaurond | Quote #: | |
| Address: 179 Colonnade Rd, Suite #400 Nepean, ON | PO #: TBD | |
| Telephone: 613-727-0510 | Email Address: Zoe.Jeaurond@GHD.com | |
| | | Date Required: _____ |

ASBESTOS & MOLD ANALYSIS

Matrix: ☐ Air ☒ Bulk ☐ Tape Lift ☐ Swab ☐ Other Regulatory Guideline: ☒ ON ☐ QC ☐ AB ☐ SK ☐ Other:

Analyses: ☐ Microscopic Mold ☐ Culturable Mold ☐ Bacteria GRAM ☐ PCM Asbestos ☒ PLM Asbestos ☐ Chatfield Asbestos ☐ TEM Asbestos

| Paracel Order Number: | | | | Asbestos - Bulk | |
|-----------------------|----------------|-------------------|--|--|----------------|
| Sample ID | | | | Identify Distinct Building Materials to Be Analyzed (if not specified, all materials identified will be analyzed) * | Positive Stop? |
| Sampling Date | Air Volume (L) | Analysis Required | | | |
| 1 337-F61-A | 9 | Y | VSF - beige squares, rectangle, diamond and blue | | |
| 2 337-F61-B | - | Y | | | |
| 3 337-F61-C | 0 | Y | | | |
| 4 337-F62-A | 2 | Y | VFT - 12x12 mock CT, grey and blotchy | | |
| 5 337-F62-B | - | Y | | | |
| 6 337-F62-C | - | Y | VFT, 12x12 blue and white | | |
| 7 337-F63-A | 2 | Y | | | |
| 8 337-F63-B | - | Y | VFT, 9x9 beige with small brown streaks | | |
| 9 337-F63-C | 4 | Y | | | |
| 10 65-F64-A | 2 | Y | | | |
| 11 65-F64-B | 3 | Y | | | |
| 12 65-F64-C | 7 | Y | | | |

* If left blank, all distinct materials identified in the samples will be analyzed and reported separately as per EPA 600/R-93/116. Additional charges will apply.

Comments:

Method of Delivery:

| | | | |
|--|---------------------------------------|-------------------------------------|---------------------------------|
| Relinquished By (Sign): <i>[Signature]</i> | Received at Depot: <i>[Signature]</i> | Received at Lab: <i>[Signature]</i> | Verified By: <i>[Signature]</i> |
| Relinquished By (Print): JACQUELYN CURPHEY | Date/Time: June 11/19 1:30p | Date/Time: Oct 14/19 4:00pm | Date/Time: Oct 31/19 1:48pm |

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Page 16. of 23

| | | |
|---|------------------------------------|---|
| Client Name: GHD | Project Reference: 11196110 E4 | Turnaround Time: <input type="checkbox"/> Immediate <input type="checkbox"/> 1 Day <input type="checkbox"/> 4 Hour <input type="checkbox"/> 2 Day <input type="checkbox"/> 8 Hour <input type="checkbox"/> 3 Day <input checked="" type="checkbox"/> Regular |
| Contact Name: Zoe Jeurond | Quote #: TBD | |
| Address: 179 Colonnade Rd, Suite #400 Nepean, ON | PO #: | |
| Telephone: 613-727-0510 | Email Address: Zoe.Jeurond@GHD.COM | |
| | | Date Required: _____ |

ASBESTOS & MOLD ANALYSIS

Matrix: ☐ Air ☒ Bulk ☐ Tape Lift ☐ Swab ☐ Other Regulatory Guideline: ☒ ON ☐ QC ☐ AB ☐ SK ☐ Other:

Analyses: ☐ Microscopic Mold ☐ Culturable Mold ☐ Bacteria GRAM ☐ PCM Asbestos ☒ PLM Asbestos ☐ Chatfield Asbestos ☐ TEM Asbestos

| Parcel Order Number: | | | Air Volume (L) | Analysis Required | Asbestos - Bulk | |
|----------------------|-----------|------------------|----------------------|----------------------|--|-------------------------------------|
| | | | | | Identify Distinct Building Materials to Be Analyzed (if not specified, all materials identified will be analyzed) * | Positive Stop? |
| Sample ID | | Sampling Date | | | | |
| 1 | 361-F65-A | | | Y | VFT- 12x12 -white with grey flecks | <input checked="" type="checkbox"/> |
| 2 | 361-F65-B | 8 | | Y | | <input checked="" type="checkbox"/> |
| 3 | 361-F65-C | - | | Y | | <input checked="" type="checkbox"/> |
| 4 | 355-F66-A | 0 | | Y | VFT- 12x12 mock CT beige with 4 tile inside | <input checked="" type="checkbox"/> |
| 5 | 355-F66-B | 16 | | Y | | <input checked="" type="checkbox"/> |
| 6 | 355-F66-C | - | | Y | | <input checked="" type="checkbox"/> |
| 7 | 339-F67-A | 27 | | Y | VSF -beige with black specs | <input checked="" type="checkbox"/> |
| 8 | 339-F67-B | | | Y | | <input checked="" type="checkbox"/> |
| 9 | 339-F67-C | 13 | | Y | | <input checked="" type="checkbox"/> |
| 10 | 339-F68-A | 2 | | Y | VSF -12x12 beige with brown streaks | <input checked="" type="checkbox"/> |
| 11 | 339-F68-B | 3 | | Y | | <input checked="" type="checkbox"/> |
| 12 | 339-F68-C | 17 | | Y | | <input checked="" type="checkbox"/> |

* If left blank, all distinct materials identified in the samples will be analyzed and reported separately as per EPA 600/R-93/116. Additional charges will apply.

| | | | |
|---|---------------------------------------|-------------------------------------|---------------------------------|
| Comments: | | Method of Delivery: | |
| Relinquished By (Sign): <i>[Signature]</i> | Received at Depot: <i>[Signature]</i> | Received at Lab: <i>[Signature]</i> | Verified By: <i>[Signature]</i> |
| Relinquished By (Print): JACQUELYN CARRPHEI | Date/Time: June 11/19 1:30p | Date/Time: June 19 4:00p | Date/Time: June 13/19 1:48p |

Paracel ID: 1924394



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Chain of Custody
(Lab Use Only)

Page 17. of 22

| | | |
|--|------------------------------------|---|
| Client Name: GHD | Project Reference: 11196110E4 | Turnaround Time: <input type="checkbox"/> Immediate <input type="checkbox"/> 1 Day <input type="checkbox"/> 4 Hour <input type="checkbox"/> 2 Day <input type="checkbox"/> 8 Hour <input type="checkbox"/> 3 Day <input checked="" type="checkbox"/> Regular |
| Contact Name: Zoe Jeurond | Quote #: | |
| Address: 179 Colonnade Rd, Suite #400 Nepean ON | PO #: TBN | |
| Telephone: 613-727-0510 | Email Address: Zoe.Jeurond@GHD.com | |
| | | Date Required: _____ |

ASBESTOS & MOLD ANALYSIS

Matrix: ☐ Air ☒ Bulk ☐ Tape Lift ☐ Swab ☐ Other **Regulatory Guideline:** ☒ ON ☐ QC ☐ AB ☐ SK ☐ Other:
Analyses: ☐ Microscopic Mold ☐ Culturable Mold ☐ Bacteria GRAM ☐ PCM Asbestos ☒ PLM Asbestos ☐ Chatfield Asbestos ☐ TEM Asbestos

| Paracel Order Number: | | Asbestos - Bulk | | | |
|-----------------------|-----------|-----------------|----------------|-------------------|---|
| | | Sampling Date | Air Volume (L) | Analysis Required | Identify Distinct Building Materials to Be Analyzed (if not specified, all materials identified will be analyzed) * |
| Sample ID | | | | | Positive Stop? |
| 1 | 492-F69-A | 9 | | Y | <input checked="" type="checkbox"/> |
| 2 | 492-F69-B | 1 | | Y | <input checked="" type="checkbox"/> |
| 3 | 492-F69-C | 0 | | Y | <input checked="" type="checkbox"/> |
| 4 | 498-F70-A | 8 | | Y | <input checked="" type="checkbox"/> |
| 5 | 498-F70-B | | | Y | <input checked="" type="checkbox"/> |
| 6 | 498-F70-C | 1 | | Y | <input checked="" type="checkbox"/> |
| 7 | 63-F72-A | 2 | | Y | <input checked="" type="checkbox"/> |
| 8 | 63-F72-B | | | Y | <input checked="" type="checkbox"/> |
| 9 | 63-F72-C | 10 | | Y | <input checked="" type="checkbox"/> |
| 10 | 83-F73-A | 2 | | Y | <input checked="" type="checkbox"/> |
| 11 | 83-F73-B | 3 | | Y | <input checked="" type="checkbox"/> |
| 12 | 83-F73-C | 11 | | Y | <input checked="" type="checkbox"/> |

* If left blank, all distinct materials identified in the samples will be analyzed and reported separately as per EPA 600/R-93/116. Additional charges will apply.

| | | | |
|--|---------------------------------------|-------------------------------------|---------------------------------|
| Comments: | | Method of Delivery: | |
| Relinquished By (Sign): <i>[Signature]</i> | Received at Depot: <i>[Signature]</i> | Received at Lab: <i>[Signature]</i> | Verified By: <i>[Signature]</i> |
| Relinquished By (Print): JACQUELYN CURPHEY | Date/Time: June 11/19 1:30p | Date/Time: June 11/19 4:00p | Date/Time: June 13/19 1:48p |

Parcel ID: 1924394



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Chain of Custody
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Page 10 of 22

| | | |
|--|------------------------------------|---|
| Client Name: GHD | Project Reference: 111961 10E4 | Turnaround Time: <input type="checkbox"/> Immediate <input type="checkbox"/> 1 Day <input type="checkbox"/> 4 Hour <input type="checkbox"/> 2 Day <input type="checkbox"/> 8 Hour <input type="checkbox"/> 3 Day <input checked="" type="checkbox"/> Regular |
| Contact Name: Zoe Jeurond | Quote #: | |
| Address: 179 Colonnade Rd, Suite #400 Nepean ON | PO #: TBD | |
| Telephone: 613-727-0510 | Email Address: Zoe.Jeurond@GHD.com | |
| | | Date Required: _____ |

ASBESTOS & MOLD ANALYSIS

Matrix: ☐ Air ☒ Bulk ☐ Tape Lift ☐ Swab ☐ Other **Regulatory Guideline:** ☒ ON ☐ QC ☐ AB ☐ SK ☐ Other:

Analyses: ☐ Microscopic Mold ☐ Culturable Mold ☐ Bacteria GRAM ☐ PCM Asbestos ☒ PLM Asbestos ☐ Chatfield Asbestos ☐ TEM Asbestos

| Parcel Order Number: | | Sampling Date | Air Volume (L) | Analysis Required | Asbestos - Bulk | |
|----------------------|-----------|---------------|----------------|-------------------|--|-------------------------------------|
| | | | | | Identify Distinct Building Materials to Be Analyzed (if not specified, all materials identified will be analyzed) * | Positive Stop? |
| Sample ID | | | | | | |
| 1 | 524-F74-A | 5 | | Y | VSF, dark beige | <input checked="" type="checkbox"/> |
| 2 | 524-F74-B | 1 | | Y | | <input checked="" type="checkbox"/> |
| 3 | 524-F74-C | 0 | | Y | | <input checked="" type="checkbox"/> |
| 4 | 492-F75-A | 8 | | Y | VSF, mock 12x12 dark brown and tan | <input checked="" type="checkbox"/> |
| 5 | 492-F75-B | | | Y | | <input checked="" type="checkbox"/> |
| 6 | 492-F75-C | 1 | | Y | | <input checked="" type="checkbox"/> |
| 7 | 486-F77-A | 11 | | Y | VSF, mock 12x12 CT textured dark beige tile | <input checked="" type="checkbox"/> |
| 8 | 486-F77-B | | | Y | | <input checked="" type="checkbox"/> |
| 9 | 486-F77-C | 11 | | Y | | <input checked="" type="checkbox"/> |
| 10 | 500-F78-A | 2 | | Y | VSF, mock dark tan tile 12x12 | <input checked="" type="checkbox"/> |
| 11 | 500-F78-B | 3 | | Y | | <input checked="" type="checkbox"/> |
| 12 | 500-F78-C | 11 | | Y | | <input checked="" type="checkbox"/> |

* If left blank, all distinct materials identified in the samples will be analyzed and reported separately as per EPA 600/R-93/116. Additional charges will apply.

| | | | |
|--|---------------------------------------|-------------------------------------|---------------------------------|
| Comments: | | Method of Delivery: | |
| Relinquished By (Sign): <i>[Signature]</i> | Received at Depot: <i>[Signature]</i> | Received at Lab: <i>[Signature]</i> | Verified By: <i>[Signature]</i> |
| Relinquished By (Print): JACQUELYN CURPHEY | Date/Time: June 11/19 1:30p | Date/Time: June 11/19 4:00pm | Date/Time: June 13/19 1:48p |

Parcel ID: 1924394



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Chain of Custody
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Page 19 of 22

| | | |
|---|-------------------------------------|---|
| Client Name: GHD | Project Reference: 11196110 E4 | Turnaround Time: <input type="checkbox"/> Immediate <input type="checkbox"/> 1 Day <input type="checkbox"/> 4 Hour <input type="checkbox"/> 2 Day <input type="checkbox"/> 8 Hour <input type="checkbox"/> 3 Day <input checked="" type="checkbox"/> Regular |
| Contact Name: Zoe Jeaurond | Quote #: | |
| Address: 179 Collinade Rd, Suite #400, Nepean, ON K2E 7J4 | PO #: T89 | |
| Telephone: 613-727-0510 | Email Address: Zoe.jeaurond@ghd.com | |
| Date Required: | | |

ASBESTOS & MOLD ANALYSIS

Matrix: ☐ Air ☒ Bulk ☐ Tape Lift ☐ Swab ☐ Other **Regulatory Guideline:** ☒ ON ☐ QC ☐ AB ☐ SK ☐ Other:

Analyses: ☐ Microscopic Mold ☐ Culturable Mold ☐ Bacteria GRAM ☐ PCM Asbestos ☒ PLM Asbestos ☐ Chatfield Asbestos ☐ TEM Asbestos

| Parcel Order Number: | | Sampling Date | Air Volume (L) | Analysis Required | Asbestos - Bulk | |
|----------------------|----------|---------------|----------------|-------------------|--|-------------------------------------|
| | | | | | Identify Distinct Building Materials to Be Analyzed (if not specified, all materials identified will be analyzed) * | Positive Stop? |
| Sample ID | | | | | | |
| 1 | 526-M1-Y | June 5 2019 | | Y | black tar paper | <input checked="" type="checkbox"/> |
| 2 | 828-M1-B | June 5 2019 | | Y | | <input checked="" type="checkbox"/> |
| 3 | 325-M1-K | June 5 2019 | | Y | | <input checked="" type="checkbox"/> |
| 4 | 538-W3-A | June 7 2019 | | Y | exterior gypsum | <input checked="" type="checkbox"/> |
| 5 | 490-W3-H | June 7 2019 | | Y | | <input checked="" type="checkbox"/> |
| 6 | 341-W3-D | June 7 2019 | | Y | | <input checked="" type="checkbox"/> |
| 7 | 355-M6-A | June 7 2019 | | Y | cement elbow | <input checked="" type="checkbox"/> |
| 8 | 355-M6-B | June 7 2019 | | Y | | <input checked="" type="checkbox"/> |
| 9 | 355-M6-C | June 7 2019 | | Y | | <input checked="" type="checkbox"/> |
| 10 | 337-M4-A | June 6 2019 | | Y | cellulose paper wrap | <input checked="" type="checkbox"/> |
| 11 | 355-M4-B | June 7 2019 | | Y | | <input checked="" type="checkbox"/> |
| 12 | 355-M4-C | June 7 2019 | | Y | | <input checked="" type="checkbox"/> |

* If left blank, all distinct materials identified in the samples will be analyzed and reported separately as per EPA 600/R-93/116. Additional charges will apply.

| | | | |
|--|---------------------------------------|-------------------------------------|---------------------------------|
| Comments: | | Method of Delivery: | |
| Relinquished By (Sign): <i>[Signature]</i> | Received at Depot: <i>[Signature]</i> | Received at Lab: <i>[Signature]</i> | Verified By: <i>[Signature]</i> |
| Relinquished By (Print): JACQUELYN CURRIE | Date/Time: June 11/19 1:30p | Date/Time: 06/11/19 4:07p | Date/Time: 06/13/19 1:48p |

Paracel ID: 1924394



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Page 20 of 22

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|--|-------------------------------------|---|
| Client Name: GHD | Project Reference: 11196110E4 | Turnaround Time: <input type="checkbox"/> Immediate <input type="checkbox"/> 1 Day <input type="checkbox"/> 4 Hour <input type="checkbox"/> 2 Day <input type="checkbox"/> 8 Hour <input type="checkbox"/> 3 Day <input checked="" type="checkbox"/> Regular |
| Contact Name: Zoe Jeaurond | Quote #: | |
| Address: 179 Collonade Rd, Suite 400, Nepean, ON K2E 7J4 | PO #: T60 | |
| Telephone: 613-727-0510 | Email Address: zoe.jeaurond@ghd.com | |
| Date Required: _____ | | |

ASBESTOS & MOLD ANALYSIS

Matrix: ☐ Air ☒ Bulk ☐ Tape Lift ☐ Swab ☐ Other **Regulatory Guideline:** ☒ ON ☐ QC ☐ AB ☐ SK ☐ Other:

Analyses: ☐ Microscopic Mold ☐ Culturable Mold ☐ Bacteria GRAM ☐ PCM Asbestos ☒ PLM Asbestos ☐ Chatfield Asbestos ☐ TEM Asbestos

| Paracel Order Number: | | | | Asbestos - Bulk | |
|-----------------------|----------|---|---|--|-------------------------------------|
| Sample ID | | | | Identify Distinct Building Materials to Be Analyzed (if not specified, all materials identified will be analyzed) * | Positive Stop? |
| 1 | 67-M5-A | 5 | Y | vermiculite | <input checked="" type="checkbox"/> |
| 2 | 67-M5-B | 5 | Y | | <input checked="" type="checkbox"/> |
| 3 | 67-M5-C | 5 | Y | | <input checked="" type="checkbox"/> |
| 4 | 490-C2-A | 7 | Y | stipite ceiling | <input checked="" type="checkbox"/> |
| 5 | 490-C2-B | 7 | Y | | <input checked="" type="checkbox"/> |
| 6 | 490-C2-C | 7 | Y | | <input checked="" type="checkbox"/> |
| 7 | 327-M3-A | 2 | Y | concrete parge holding styrofoam on black tar | <input checked="" type="checkbox"/> |
| 8 | 327-M3-B | 2 | Y | | <input checked="" type="checkbox"/> |
| 9 | 327-M3-C | 2 | Y | | <input checked="" type="checkbox"/> |
| 10 | 820-M2-A | 3 | Y | black tar on styrofoam | <input checked="" type="checkbox"/> |
| 11 | 323-M2-D | 3 | Y | | <input checked="" type="checkbox"/> |
| 12 | 496-M2-B | 7 | Y | | <input checked="" type="checkbox"/> |

* If left blank, all distinct materials identified in the samples will be analyzed and reported separately as per EPA 600/R-93/116. Additional charges will apply.

| | | | |
|---|-------------------------------|-------------------------------------|---------------------------------|
| Comments: | | Method of Delivery: | |
| Relinquished By (Sign): <i>JWH</i> | Received at Depot: <i>SCZ</i> | Received at Lab: <i>[Signature]</i> | Verified By: <i>[Signature]</i> |
| Relinquished By (Print): JACQUELYN CAMPBELL | Date/Time: June 11/19 1:30p | Date/Time: June 11/19 4:00pm | Date/Time: June 11/19 1:48pm |

Paracel ID: 1924394



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e: paracel@paracellabs.com

Chain of Custody
(Lab Use Only)

Page 21 of 22

| | | |
|---|-------------------------------------|---|
| Client Name: GHD | Project Reference: 11196110EH | Turnaround Time: <input type="checkbox"/> Immediate <input type="checkbox"/> 1 Day <input type="checkbox"/> 4 Hour <input type="checkbox"/> 2 Day <input type="checkbox"/> 8 Hour <input type="checkbox"/> 3 Day <input checked="" type="checkbox"/> Regular |
| Contact Name: Zoe Jeaurond | Quote #: | |
| Address: 179 Collonade Rd, Suite #400, Nepean, ON K2E 7J4 | PO #: T6D | |
| Telephone: 613-727-0510 | Email Address: zoe.jeaurond@ghd.com | |
| Date Required: _____ | | |

ASBESTOS & MOLD ANALYSIS

Matrix: ☐ Air ☒ Bulk ☐ Tape Lift ☐ Swab ☐ Other **Regulatory Guideline:** ☒ ON ☐ QC ☐ AB ☐ SK ☐ Other:

Analyses: ☐ Microscopic Mold ☐ Culturable Mold ☐ Bacteria GRAM ☐ PCM Asbestos ☒ PLM Asbestos ☐ Chatfield Asbestos ☐ TEM Asbestos

| Paracel Order Number: | | Asbestos - Bulk | | | |
|-----------------------|------------|-----------------|----------------|-------------------|---|
| Sample ID | | Sampling Date | Air Volume (L) | Analysis Required | Identify Distinct Building Materials to Be Analyzed (if not specified, all materials identified will be analyzed) * |
| 1 | E73-W4-B | | | Y | |
| 2 | E365-W4-A | | | Y | exterior painting |
| 3 | E305-W4-B | | | Y | |
| 4 | E486-W4-A | | | Y | |
| 5 | E492-W4-B | | | Y | exterior painting |
| 6 | E498-W4-A | | | Y | |
| 7 | E65-M11 | | | Y | |
| 8 | E504-M11-E | | | Y | soft white caulking |
| 9 | E337-M11 | | | Y | |
| 10 | E542-M12 | | | Y | |
| 11 | E534-M12 | | | Y | hard white caulking |
| 12 | E820-M12 | | | Y | |

* If left blank, all distinct materials identified in the samples will be analyzed and reported separately as per EPA 600/R-93/116. Additional charges will apply.

| | | | |
|--|---------------------------------------|-------------------------------------|---------------------------------|
| Comments: | | Method of Delivery: | |
| Relinquished By (Sign): <i>[Signature]</i> | Received at Depot: <i>[Signature]</i> | Received at Lab: <i>[Signature]</i> | Verified By: <i>[Signature]</i> |
| Relinquished By (Print): JACQUELYN CHAPMAN | Date/Time: June 11/19 1:30p | Date/Time: 06/11/19 4:09p | Date/Time: 06/13/19 1:48p |



| | | |
|--|--|--|
| Client Name: GHD | Project Reference: 11190110EH | Turnaround Time: <input type="checkbox"/> Immediate <input type="checkbox"/> 1 Day <input type="checkbox"/> 4 Hour <input type="checkbox"/> 2 Day <input type="checkbox"/> 8 Hour <input checked="" type="checkbox"/> 3 Day <input checked="" type="checkbox"/> Regular |
| Contact Name: Zoe Jeaurond | Quote #: | |
| Address: 179 Colonnade Rd, Suite #400, Nepean, ON K2E 7J4 | PO #: TB7 | |
| Telephone: 613-727-0510 | Email Address: Zoe.jeaurond@gnd.com | |
| Date Required: _____ | | |

ASBESTOS & MOLD ANALYSIS

Matrix: ☐ Air ☒ Bulk ☐ Tape Lift ☐ Swab ☐ Other Regulatory Guideline: ☒ ON ☐ QC ☐ AB ☐ SK ☐ Other:
 Analyses: ☐ Microscopic Mold ☐ Culturable Mold ☐ Bacteria GRAM ☐ PCM Asbestos ☒ PLM Asbestos ☐ Chatfield Asbestos ☐ TEM Asbestos

| Parcel Order Number: | | | | Asbestos - Bulk | |
|----------------------|----------------|-------------------|-------------------------|--|----------------|
| Sample ID | | | | Identify Distinct Building Materials to Be Analyzed (if not specified, all materials identified will be analyzed) * | Positive Stop? |
| Sampling Date | Air Volume (L) | Analysis Required | | | |
| 1 E502-W5-B | | Y | concrete wall parge. | | |
| 2 E83-W5-A | | Y | | | |
| 3 E305-W5-B | | Y | | | |
| 4 1-828-W1-B | | Y | | | |
| 5 1-820-W1-A | | Y | dry wall joint compound | | |
| 6 2-305-W1-F | | Y | | | |
| 7 2-319-W1-T | | Y | | | |
| 8 3-345-W1-K | | Y | | | |
| 9 3-353-W1-H | | Y | | | |
| 10 4-311-W1-H | | Y | | | |
| 11 4-323-W1-K | | Y | | | |
| 12 5-500-W1-N | | Y | | | |

* If left blank, all distinct materials identified in the samples will be analyzed and reported separately as per EPA 600/R-93/116. Additional charges will apply.

| | | | |
|--|---------------------------------------|-------------------------------------|----------------------------------|
| Comments: | | Method of Delivery: | |
| Relinquished By (Sign): <i>[Signature]</i> | Received at Depot: <i>[Signature]</i> | Received at Lab: <i>[Signature]</i> | Verified By: <i>[Signature]</i> |
| Relinquished By (Print): SARAH LYN CURRANEY | Date/Time: June 11/19 1:30p | Date/Time: 06/11/19 4:00p | Date/Time: 06/13/19 1:48p |

Paracel ID: 1924394



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vd.
J8

paracel@paracellabs.com

Chain of Custody
(Lab Use Only)

Page 25 of 22

| | | |
|---|-------------------------------------|---|
| Client Name: GHD | Project Reference: 11196110 E4 | Turnaround Time: <input type="checkbox"/> Immediate <input type="checkbox"/> 1 Day <input type="checkbox"/> 4 Hour <input type="checkbox"/> 2 Day <input type="checkbox"/> 8 Hour <input type="checkbox"/> 3 Day <input checked="" type="checkbox"/> Regular |
| Contact Name: Zoe Jeaurond | Quote #: | |
| Address: 179 Colonnade Rd, Suite #400 Nepean, ON K2E 7J4 | PO #: TBD | |
| Telephone: 613-727-0510 | Email Address: Zoe.jeaurond@ghd.com | |
| Date Required: _____ | | |

ASBESTOS & MOLD ANALYSIS

Matrix: ☐ Air ☒ Bulk ☐ Tape Lift ☐ Swab ☐ Other Regulatory Guideline: ☒ ON ☐ QC ☐ AB ☐ SK ☐ Other:
 Analyses: ☐ Microscopic Mold ☐ Culturable Mold ☐ Bacteria GRAM ☐ PCM Asbestos ☒ PLM Asbestos ☐ Chatfield Asbestos ☐ TEM Asbestos

| Paracel Order Number: | | Asbestos - Bulk | | | |
|-----------------------|-------------|-----------------|----------------|-------------------|---|
| Sample ID | | Sampling Date | Air Volume (L) | Analysis Required | Identify Distinct Building Materials to Be Analyzed (if not specified, all materials identified will be analyzed) * |
| 1 | 5-492-W1-S | 2019 | | Y | |
| 2 | 6-496-W1-B | | | Y | |
| 3 | 6-488-W1-Q | | | Y | |
| 4 | 7-520-W1-T | | | Y | dry wall joint compound |
| 5 | 7-510-W1-Y | | | Y | |
| 6 | 8-538-W1-A | | | Y | |
| 7 | 8-59-W1-D | | | Y | |
| 8 | 9-63-W1-DD | | | Y | |
| 9 | 9-71-W1-KK | | | Y | |
| 10 | 10-83-W1-II | | | Y | |
| 11 | 10-81-W1-HH | | | Y | |
| 12 | | | | Y | |

* If left blank, all distinct materials identified in the samples will be analyzed and reported separately as per EPA 600/R-93/116. Additional charges will apply.

| | |
|--|---------------------------------------|
| Comments: | Method of Delivery: |
| Relinquished By (Sign): <i>[Signature]</i> | Received at Depot: <i>[Signature]</i> |
| Relinquished By (Print): JACQUELYN CURPHEY | Received at Lab: <i>[Signature]</i> |
| Date/Time: 1:30pm 11 JUNE 2019 | Verified By: <i>[Signature]</i> |
| Date/Time: June 11/19 1:30pm | Date/Time: June 19 4:00pm |
| | Date/Time: 06/13/19 1:48pm |

Appendix C

Analytical Laboratory Reports - Lead

Certificate of Analysis

GHD Limited (Ottawa)

179 Colonnade Road Suite 400
Ottawa, ON K0A 2W0
Attn: Zoe Jeaurond

Client PO: 73516118
Project: 11196110-E4
Custody: 20617

Report Date: 14-Jun-2019
Order Date: 11-Jun-2019

Order #: 1924228

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

| Paracel ID | Client ID | |
|------------|-----------------------|----------------------------|
| 1924228-01 | 828-W-P1-cream | 1924228-31 534-W-P32-beige |
| 1924228-02 | 301-W-P2-White | 1924228-32 327-W-P33-white |
| 1924228-03 | 305-W-P3-brown | 1924228-33 329-W-P34-beige |
| 1924228-04 | 59-WP4-beige | 1924228-34 333-W-P35-beige |
| 1924228-05 | 311-W-P5-white | 1924228-35 335-W-P36-beige |
| 1924228-06 | 315-W-P6-beige | 1924228-36 337-W-P37-grey |
| 1924228-07 | 315-W-P7-white | 1924228-37 81-W-P37-grey |
| 1924228-08 | 319-W-P8-eggshell | 1924228-38 83-W-P38-grey |
| 1924228-09 | 319-W-P9-Green | 1924228-39 71-T-P39-green |
| 1924228-10 | 319-W-P10-beige | 1924228-40 65-W-P40-white |
| 1924228-11 | 319-W-P11-purple | 1924228-41 63-C-P41-white |
| 1924228-12 | M8-W-P12-beige | 1924228-42 542-W-P3-white |
| 1924228-13 | 325-W-P13-beige | 1924228-43 361-W-P5-blue |
| 1924228-14 | 325-W-P14-blue grey | 1924228-44 359-W-P6-pink |
| 1924228-15 | 498-W-P13-white | 1924228-45 359-W-P7-blue |
| 1924228-16 | 498-W-P16-bright blue | 1924228-46 355-W-P8-white |
| 1924228-17 | 486-W-P17-bright blue | 1924228-47 355-W-P9-yellow |
| 1924228-18 | 488-W-P18-beige | 1924228-48 353-W-P10-beige |
| 1924228-19 | 490-W-P19-baby blue | 1924228-49 351-W-P11-white |
| 1924228-20 | 490-W-P20-blue grey | 1924228-50 486-W-P18-tan |
| 1924228-21 | 496-W-P21-beige | |
| 1924228-22 | 518-W-P22-brown | |
| 1924228-23 | 516-W-P23-purple | |
| 1924228-24 | 516-W-P24-blue | |
| 1924228-25 | 512-W-P25-eggshell | |
| 1924228-26 | 510-W-P26-white | |
| 1924228-27 | 524-W-P27-brown | |
| 1924228-28 | 526-W-P28-white | |
| 1924228-29 | 532-W-P29-eggshell | |
| 1924228-30 | 532-W-P31-purple | |

Approved By:



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 (Ottawa)
Client PO: 73516118

Report Date: 14-Jun-2019
Order Date: 11-Jun-2019
Project Description: 11196110-E4

Analysis Summary Table

| Analysis | Method Reference/Description | Extraction Date | Analysis Date |
|-----------------|------------------------------|-----------------|---------------|
| Metals, ICP-OES | based on MOE E3470, ICP-OES | 14-Jun-19 | 14-Jun-19 |

Sample and QC Qualifiers Notes

- 1- GEN01 :Elevated Reporting Limits due to limited sample volume.
- 2- Gen-19 :Complete separation of paint from substrate not possible for this sample and a small amount of substrate has been included in the paint digestion.
- 3- LG-CNT(Container(s) - Bottle and COC sample ID don't match -

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 (Ottawa)**
Client PO: 73516118

Report Date: 14-Jun-2019
Order Date: 11-Jun-2019
Project Description: 11196110-E4

Sample Results

| Lead | | | | Matrix: Paint |
|------------|-----------------------|-------|-----|------------------------|
| | | | | Sample Date: 05-Jun-19 |
| Paracel ID | Client ID | Units | MDL | Result |
| 1924228-01 | 828-W-P1-cream | ug/g | 20 | 127 [2] |
| 1924228-02 | 301-W-P2-White | ug/g | 20 | 154 [2] |
| 1924228-03 | 305-W-P3-brown | ug/g | 20 | <20 [2] |
| 1924228-04 | 59-WP4-beige | ug/g | 20 | 89 [2] |
| 1924228-05 | 311-W-P5-white | ug/g | 20 | <20 |
| 1924228-06 | 315-W-P6-beige | ug/g | 20 | 207 [2] |
| 1924228-07 | 315-W-P7-white | ug/g | 20 | <20 |
| 1924228-08 | 319-W-P8-eggshell | ug/g | 20 | 164 |
| 1924228-09 | 319-W-P9-Green | ug/g | 20 | <20 |
| 1924228-10 | 319-W-P10-beige | ug/g | 20 | 289 [2] |
| 1924228-11 | 319-W-P11-purple | ug/g | 20 | <20 |
| 1924228-12 | M8-W-P12-beige | ug/g | 20 | <20 [2] |
| 1924228-13 | 325-W-P13-beige | ug/g | 20 | <20 |
| 1924228-14 | 325-W-P14-blue grey | ug/g | 20 | <20 |
| 1924228-15 | 498-W-P13-white | ug/g | 20 | <20 |
| 1924228-16 | 498-W-P16-bright blue | ug/g | 20 | <20 [2] |
| 1924228-17 | 486-W-P17-bright blue | ug/g | 20 | 100 [2] |
| 1924228-18 | 488-W-P18-beige | ug/g | 20 | 289 [2] |
| 1924228-19 | 490-W-P19-baby blue | ug/g | 20 | 172 [2] |
| 1924228-20 | 490-W-P20-blue grey | ug/g | 20 | <20 |

| Lead | | | | Matrix: Paint |
|------------|--------------------|-------|-----|------------------------|
| | | | | Sample Date: 06-Jun-19 |
| Paracel ID | Client ID | Units | MDL | Result |
| 1924228-21 | 496-W-P21-beige | ug/g | 20 | 164 |
| 1924228-22 | 518-W-P22-brown | ug/g | 20 | <20 [2] |
| 1924228-23 | 516-W-P23-purple | ug/g | 20 | <20 |
| 1924228-24 | 516-W-P24-blue | ug/g | 20 | 325 [2] |
| 1924228-25 | 512-W-P25-eggshell | ug/g | 20 | <20 |
| 1924228-26 | 510-W-P26-white | ug/g | 20 | <20 |
| 1924228-27 | 524-W-P27-brown | ug/g | 20 | <20 |
| 1924228-28 | 526-W-P28-white | ug/g | 20 | 333 [2] |
| 1924228-29 | 532-W-P29-eggshell | ug/g | 20 | 155 [2] |
| 1924228-30 | 532-W-P31-purple | ug/g | 20 | 235 [2] |
| 1924228-31 | 534-W-P32-beige | ug/g | 20 | 80 [2] |
| 1924228-32 | 327-W-P33-white | ug/g | 20 | <20 [2] |
| 1924228-33 | 329-W-P34-beige | ug/g | 20 | 283 |
| 1924228-34 | 333-W-P35-beige | ug/g | 20 | 112 |

Certificate of Analysis
 Client: GHD Limited (Ottawa)
 Client PO: 73516118

Report Date: 14-Jun-2019
 Order Date: 11-Jun-2019
 Project Description: 11196110-E4

Sample Results

| Lead | | | | Matrix: Paint |
|------------|-----------------|-------|-----|------------------------|
| | | | | Sample Date: 06-Jun-19 |
| Paracel ID | Client ID | Units | MDL | Result |
| 1924228-35 | 335-W-P36-beige | ug/g | 20 | 345 [2] |
| 1924228-36 | 337-W-P37-grey | ug/g | 20 | <20 [2] |
| 1924228-37 | 81-W-P37-grey | ug/g | 20 | <20 [2] |
| 1924228-38 | 83-W-P38-grey | ug/g | 20 | <20 |
| 1924228-39 | 71-T-P39-green | ug/g | 20 | 410 |
| 1924228-40 | 65-W-P40-white | ug/g | 20 | 187 [2] |

| Lead | | | | Matrix: Paint |
|------------|-----------------|-------|-----|------------------------|
| | | | | Sample Date: 07-Jun-19 |
| Paracel ID | Client ID | Units | MDL | Result |
| 1924228-41 | 63-C-P41-white | ug/g | 20 | 180 [2] |
| 1924228-42 | 542-W-P3-white | ug/g | 20 | 396 [2] |
| 1924228-43 | 361-W-P5-blue | ug/g | 20 | <20 |
| 1924228-44 | 359-W-P6-pink | ug/g | 20 | 35 |
| 1924228-45 | 359-W-P7-blue | ug/g | 20 | <20 |
| 1924228-46 | 355-W-P8-white | ug/g | 20 | 124 [2] |
| 1924228-47 | 355-W-P9-yellow | ug/g | 20 | <20 [2] |
| 1924228-48 | 353-W-P10-beige | ug/g | 20 | <30 [1] |
| 1924228-49 | 351-W-P11-white | ug/g | 20 | <20 |
| 1924228-50 | 486-W-P18-tan | ug/g | 20 | <20 |

Laboratory Internal QA/QC

| Analyte | 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 | 245 | | ug/L | ND | 97.5 | 70-130 | | | |

TRUS PARACEL WO: 1924228

RESP

RELIA



Head Office
2319 St. Laurent Blvd.
a, Ontario K1G 4J8
00-749-1947
racel@paracellabs.com
paracellabs.com

Chain of Custody
(Lab Use Only)

Nº 20617

Page 1 of 5

| | | |
|---|-------------------------------------|---|
| Client Name: GHD | Project Reference: 11 19 61.5 E4 | TAT: <input checked="" type="checkbox"/> Regular <input type="checkbox"/> 3 Day |
| Contact Name: Zoë Jeaurond | Quote # | <input type="checkbox"/> 2 Day <input type="checkbox"/> 1 Day |
| Address: 818 Glad St Suite #400 179 Colonnade Rd, Nepean, ON, K2E 7J4 | PO #: TBD | Date Required: |
| Telephone: 613-727-0510 | Email Address: zoe.jeaurond@gnd.com | |

Criteria: ☐ O. Reg. 153/04 (As Amended) Table ☐ RSC Filing ☐ O. Reg. 558/00 ☐ PWQO ☐ CCME ☐ SUB (Storm) ☐ SUB (Sanitary) Municipality: ☐ Other:

Matrix Type: S (Soil Sed.) GW (Ground Water) SW (Surface Water) SS (Storm Sanitary Sewer) ☒ P (Paint) A (Air) O (Other)

Required Analyses

| Paracel Order Number: | | Matrix | Air Volume | # of Containers | Sample Taken | | LEAD | | | | | | | | | | | | |
|-------------------------|-------------------|--------|------------|-----------------|--------------|------|------|--|--|--|--|--|--|--|--|--|--|--|--|
| Sample ID/Location Name | | | | | Date | Time | | | | | | | | | | | | | |
| 1 | 828-W-P1-cream | P | | 1 | 19 | | X | | | | | | | | | | | | |
| 2 | 301-W-P2-white | P | | 1 | 0 | | X | | | | | | | | | | | | |
| 3 | 305-W-P3-brown | P | | 1 | 2 | | X | | | | | | | | | | | | |
| 4 | 59-W-P4-beige | P | | 1 | 5 | | X | | | | | | | | | | | | |
| 5 | 311-W-P5-white | P | | 1 | 5 | | X | | | | | | | | | | | | |
| 6 | 315-W-P6-beige | P | | 1 | 6 | | X | | | | | | | | | | | | |
| 7 | 315-W-P7-white ✓ | P | | 1 | 6 | | X | | | | | | | | | | | | |
| 8 | 319-W-P8-eggshell | P | | 1 | 3 | | X | | | | | | | | | | | | |
| 9 | 319-W-P9-green | P | | 1 | 5 | | X | | | | | | | | | | | | |
| 10 | 319-W-P10-beige | P | | 1 | | | X | | | | | | | | | | | | |

Comments: Received sample, not write sample ID on bag, color is white.

Method of Delivery:

| | | | |
|--|---------------------------|-------------------------------------|--|
| Relinquished By (Sign): <i>[Signature]</i> | Received by Driver/Depot: | Received at Lab: <i>[Signature]</i> | Verified By: <i>[Signature]</i> |
| Relinquished By (Print): JACQUELYN CURPHEY | Date/Time: | Date/Time: 06-11-19 16:29 | Date/Time: 06-11-19 16:29 |
| Date/Time: 1:36pm 11 JUNE 2019 | Temperature: °C | Temperature: °C | pH Verified <input type="checkbox"/> By: |



| | | |
|---|-------------------------------------|--|
| Client Name: GHD | Project Reference: 11 19 6110 E4 | Turnaround Time: <input type="checkbox"/> 1 Day <input type="checkbox"/> 3 Day <input type="checkbox"/> 2 Day <input checked="" type="checkbox"/> Regular Date Required: |
| Contact Name: Zoë Jeaurond | Quote # | |
| Address: 179 Colonnade Rd, Suite #400, Nepean, ON K2E 7J4 | PO # TBD | |
| Telephone: 613-727-0510 | Email Address: zoe.jeaurond@ghd.com | |

Criteria: ☐ O. Reg. 153/04 (As Amended) Table ☐ RSC Filing ☐ O. Reg. 558/00 ☐ PWQO ☐ CCME ☐ SUB (Storm) ☐ SUB (Sanitary) Municipality: ☐ Other:

Matrix Type: S (Soil/Sed.) GW (Ground Water) SW (Surface Water) SS (Storm Sanitary Sewer) ☒ P (Paint) A (Air) O (Other)

| Paracel Order Number: 1924228 | | | Required Analyses | | | | | | | | | | | | | |
|-------------------------------|----------------------|--|-------------------|------------|-----------------|--------------|------|------------------|------|------|---------------|----|-------|---------|------|---|
| Sample ID/Location Name | | | Matrix | Air Volume | # of Containers | Sample Taken | | PH/CK F1-F4-BTEX | VOCS | PAHs | Metals by ICP | Hg | Cd/Pb | B (HWS) | LEAD | |
| | | | | | | Date | Time | | | | | | | | | |
| 1 | 319-W-P11-purple | | P | | 1 | 5th | | | | | | | | | X | / |
| 2 | M8-W-P12-beige | | P | | 1 | | | | | | | | | | X | / |
| 3 | 325-W-P13-beige | | P | | 1 | | | | | | | | | | X | / |
| 4 | 325-W-P14-bluegrey | | P | | 1 | | | | | | | | | | X | / |
| 5 | 498-W-P13-white | | P | | 1 | 5 | | | | | | | | | X | / |
| 6 | 498-W-P16-brightblue | | P | | 1 | 2 | | | | | | | | | X | / |
| 7 | 486-W-P17-brightblue | | P | | 1 | C | | | | | | | | | X | / |
| 8 | 488-W-P18-beige | | P | | 1 | 3 | | | | | | | | | X | / |
| 9 | 490-W-P19-babyblue | | P | | 1 | 5 | | | | | | | | | X | / |
| 10 | 490-W-P20-bluegrey | | P | | 1 | | | | | | | | | | X | / |

Comments: Method of Delivery: *WALKIN*

| | | | |
|--|---------------------------------|-----------------------------------|-------------------------------------|
| Relinquished By (Sign): <i>J. Curphey</i> | Received by Driver/Depot: | Received at Lab: <i>STRONG 30</i> | Verified By: <i>Moh</i> |
| Relinquished By (Print): JACQUELYN CURPHEY | Date/Time: <i>June 11, 15 1</i> | Date/Time: <i>June 11, 15 1</i> | Date/Time: <i>June 11, 19 16:23</i> |
| Date/Time: 1:30 pm 11 JUNE 2019 | Temperature: °C | Temperature: °C | pH Verified [] By: |

| | | |
|--|-------------------------------------|---|
| Client Name: GHD | Project Reference: 11 19 61 16 E4 | Turnaround Time: <input type="checkbox"/> 1 Day <input type="checkbox"/> 3 Day <input type="checkbox"/> 2 Day <input checked="" type="checkbox"/> Regular Date Required: |
| Contact Name: Zoë Jeaurond | Quote # | |
| Address: 179 Colonnade Rd, Suite # 400, Nepean, ON K2E 7J4 | PO # TBD | |
| Telephone: 613-727-0510 | Email Address: zoe.jeaurond@ghd.com | |

Criteria: ☐ O. Reg. 153/04 (As Amended) Table ☐ RSC Filing ☐ O. Reg. 558/00 ☐ PWQO ☐ CCME ☐ SUB (Storm) ☐ SUB (Sanitary) Municipality: ☐ Other:

Matrix Type: S (Soil/Sed.) GW (Ground Water) SW (Surface Water) SS (Storm/Sanitary Sewer) ☒ Paint A (Air) O (Other)

Required Analyses

| Parcel Order Number: 1924228 | | Matrix | Air Volume | # of Containers | Sample Taken | | PHTs F1-F4+BTEX | VOCs | PAHs | Metals by ICP | Hg | Cr+V | B (UWS) | LEAD | | | | | | |
|---------------------------------|--------------------|--------|------------|-----------------|--------------|------|-----------------|------|------|---------------|----|------|---------|------|--|--|--|--|--|--|
| Sample ID/Location Name | | | | | Date | Time | | | | | | | | | | | | | | |
| 1 | 496-W-P21-beige | P | | 1 | | | | | | | | | | X | | | | | | |
| 2 | 518-W-P22-brown | P | | 1 | | | | | | | | | | X | | | | | | |
| 3 | 516-W-P23-purple | P | | 1 | | | | | | | | | | X | | | | | | |
| 4 | 516-W-P24-blue | P | | 1 | | | | | | | | | | X | | | | | | |
| 5 | 512-W-P25-eggshell | P | | 1 | | | | | | | | | | X | | | | | | |
| 6 | 510-W-P26-white | P | | 1 | | | | | | | | | | X | | | | | | |
| 7 | 524-W-P27-brown | P | | 1 | | | | | | | | | | X | | | | | | |
| 8 | 526-W-P28-white | P | | 1 | | | | | | | | | | X | | | | | | |
| 9 | 532-W-P29-eggshell | P | | 1 | | | | | | | | | | X | | | | | | |
| 10 | 532-W-P31-purple | P | | 1 | | | | | | | | | | X | | | | | | |

Comments:

Method of Delivery:

| | | | |
|--|---------------------------|------------------------------|---------------------------|
| Relinquished By (Sign): JMN | Received by Driver/Depot: | Received at Lab: [Signature] | Verified By: [Signature] |
| Relinquished By (Print): JACQUELYN CURPHEY | Date/Time: | Date/Time: 2019-11-19 1:30 | Date/Time: 06-11-19 16:23 |
| Date/Time: 1:30pm 11 JUNE 2019 | Temperature: °C | Temperature: °C | pH Verified [] By: |



LABORATORIES LTD.

Parcel ID: 1924228



Head Office
300-2319 St. Laurent Blvd.
Ottawa, Ontario K1G 4J8
p: 1-800-749-1947
e: paracel@paracellabs.com

Chain of Custody
(Lab Use Only)

No 117811

Page 4 of 5

| | | |
|--|-------------------------------------|--|
| Client Name: GHD | Project Reference: 11196110E4 | Turnaround Time: <input type="checkbox"/> 1 Day <input type="checkbox"/> 3 Day <input type="checkbox"/> 2 Day <input checked="" type="checkbox"/> Regular Date Required: _____ |
| Contact Name: Zoë Jeaurond | Quote # | |
| Address: 179 Colonnade Road, Suite #400, Nepean, ON K2E 7T4 | PO # T8D | |
| Telephone: 613-727-0510 | Email Address: zoë.jeaurond@ghd.com | |

Criteria: ☐ O. Reg. 153/04 (As Amended) Table ☐ RSC Filing ☐ O. Reg. 558/00 ☐ PWQO ☐ CCME ☐ SUB (Storm) ☐ SUB (Sanitary) Municipality: _____ ☐ Other: _____

Matrix Type: S (Soil/Sed.) GW (Ground Water) SW (Surface Water) SS (Storm Sanitary Sewer) ☒ P (Paint) A (Air) O (Other)

Required Analyses

Parcel Order Number:

1924228

| Sample ID/Location Name | Matrix | Air Volume | # of Containers | Sample Taken | | PHCs F1-F4+BTEX | VOCs | PAHs | Metals by ICP | Hg | CrVI | B (HWS) | LEAD | | | | | | |
|-------------------------|--------|------------|-----------------|--------------|------|-----------------|------|------|---------------|----|------|---------|------|--|--|--|--|--|--|
| | | | | Date | Time | | | | | | | | | | | | | | |
| 1 534-W-P32-beige | P | | 1 | 19 | | | | | | | | | X | | | | | | |
| 2 327-W-P33-white | P | | 1 | 20 | | | | | | | | | X | | | | | | |
| 3 329-W-P34-beige | P | | 1 | 20 | | | | | | | | | X | | | | | | |
| 4 333-W-P35-beige | P | | 1 | F | | | | | | | | | X | | | | | | |
| 5 335-W-P36-beige | P | | 1 | 6 | | | | | | | | | X | | | | | | |
| 6 337-W-P37-grey | P | | 1 | | | | | | | | | | X | | | | | | |
| 7 81-W-P37-white | P | | 1 | 2 | | | | | | | | | X | | | | | | |
| 8 83-W-P38-white | P | | 1 | 5 | | | | | | | | | X | | | | | | |
| 9 71-T-P39-green | P | | 1 | 3 | | | | | | | | | X | | | | | | |
| 10 65-W-P40-white | P | | 1 | 7 | | | | | | | | | X | | | | | | |

Comments:

Method of Delivery:

| | | | |
|--|---------------------------|-------------------------------------|---------------------------------|
| Relinquished By (Sign): <i>JMP</i> | Received by Driver/Depot: | Received at Lab: <i>[Signature]</i> | Verified By: <i>[Signature]</i> |
| Relinquished By (Print): JACQUELYN CURPHEY | Date/Time: | Date/Time: 2019-11-19 1 | Date/Time: 2019-11-19 1622 |
| Date/Time: 1:30pm 11 JUNE 2019 | Temperature: °C | Temperature: °C | pH Verified [] By: |



LABORATORIES LTD.

Parcel ID: 1924228



Head Office
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e: paracel@paracellabs.com

Chain of Custody
(Lab Use Only)

No 117812

Page 5 of 5

| | | |
|---|-------------------------------------|---|
| Client Name: GHO | Project Reference: 11 19 61 10 E4 | Turnaround Time: <input type="checkbox"/> 1 Day <input type="checkbox"/> 3 Day <input type="checkbox"/> 2 Day <input checked="" type="checkbox"/> Regular Date Required: _____ |
| Contact Name: Zoë Jeaurond | Quote # | |
| Address: 179 Colonnade Road, Suite #400, Nepean, ON, K2E 7J4 | PO # T8D | |
| Telephone: 613-727-DS10 | Email Address: zoe.jeaurond@ghd.com | |

Criteria: ☐ O. Reg. 153/04 (As Amended) Table ☐ RSC Filing ☐ O. Reg. 558/00 ☐ PWQO ☐ CCME ☐ SUB (Storm) ☐ SUB (Sanitary) Municipality: _____ ☐ Other: _____Matrix Type: S (Soil/Sed.) GW (Ground Water) SW (Surface Water) SS (Storm Sanitary Sewer) ☒ P (Paint) A (Air) O (Other)

Required Analyses

| Parcel Order Number: 192428 | | Matrix | Air Volume | # of Containers | Sample Taken | | PHCs FI-F4+BTEX | VOCs | PAHs | Metals by ICP | Hg | CrVI | B (HWS) | LEAD | | | | | | |
|--------------------------------|-------------------|--------|------------|-----------------|--------------|------|-----------------|------|------|---------------|----|------|---------|------|--|--|--|--|--|--|
| Sample ID/Location Name | | | | | Date | Time | | | | | | | | | | | | | | |
| 1 | 63-C-P41 - white | P | | 1 | June 7 | 2019 | | | | | | | | X | | | | | | |
| 2 | 542-W-P3 - white | | | | June 7 | 2019 | | | | | | | | X | | | | | | |
| 3 | 361-W-P5 - blue | | | | June 7 | 2019 | | | | | | | | X | | | | | | |
| 4 | 359-W-P6 - pink | | | | June 7 | 2019 | | | | | | | | X | | | | | | |
| 4s | 359-W-P7 - blue | | | | June 7 | 2019 | | | | | | | | X | | | | | | |
| 6 | 355-W-P8 - white | | | | June 7 | 2019 | | | | | | | | X | | | | | | |
| 7 | 355-W-P9 - yellow | | | | June 7 | 2019 | | | | | | | | X | | | | | | |
| 8 | 353-W-P10 - beige | | | | June 7 | 2019 | | | | | | | | X | | | | | | |
| 9 | 351-W-P11 - white | | | | June 7 | 2019 | | | | | | | | X | | | | | | |
| 10 | 486-W-P18 - tan | | | | June 7 | 2019 | | | | | | | | X | | | | | | |

Comments: i NO. 45, Sample ID on bag read = 359 - W - P7 - color paint = blue.

Method of Delivery: _____

| | | | |
|--|---------------------------|--------------------------|---------------------------|
| Relinquished By (Sign): | Received by Driver/Depot: | Received at Lab: | Verified By: |
| Relinquished By (Print): JACQUELYN CURPHEY | Date/Time: _____ | Date/Time: 06/11/19 1:30 | Date/Time: 06/11/19 16:22 |
| Date/Time: 1:30pm 11 JUNE 2019 | Temperature: °C | Temperature: °C | pH Verified [] By: _____ |



about GHD

GHD is one of the world's leading professional services companies operating in the global markets of water, energy and resources, environment, property and buildings, and transportation. We provide engineering, environmental, and construction services to private and public sector clients.

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