

# ASBESTOS ASSESSMENT AND REPORTING AIRPORT INDUSTRIAL SITE

Works & Engineering  
St. George's, Bermuda



Report prepared for

Kobe Richardson



**SUMMARY:**

1. Asbestos assessment survey was conducted on two (2) buildings A and B at the Airport Industrial Site in St. George's on Wednesday, June 23<sup>rd</sup>, 2021.
2. Building A was determined to be in a structurally unsound condition. BWC decided not to enter the building due to health and safety concerns. However, BWC was able to visually inspect and collect samples from the building to a large degree from various entrance-ways and other fenestrations.
3. A total of ten (10) suspect samples; floor tile, mastic, ceiling tile, and roofing samples were taken, three of which contained asbestos.
4. The building A comprised a one (1) story Warehouse and Building B a bathroom building. Both buildings are relic of the former US Naval Air Station of masonry construction and corrugated asbestos type roofing.
5. Asbestos was found in the following area:
  - Building A – Large Warehouse Roofing West - Roofing Sample
  - Building A – Large Warehouse Roofing East - Roofing Sample
  - Building B – Bathroom Building Roofing - Roofing Sample
6. No other suspect asbestos was identified throughout the building.
7. NOTE: BWC has attempted to identify and test all suspect asbestos material as reasonably accessible; however, no attempt has been made to penetrate walls or other structural members. If during renovation or demolition other suspicious material are uncovered, the client is recommended to contact BWC for further inspection and testing as necessary.

# ASBESTOS ASSESSMENT AND REPORTING AIRPORT INDUSTRIAL SITE

July 22<sup>nd</sup>, 2021

**REPORT COMMISSIONED BY:** Kobe Richardson

**LOCATION:** Works & Engineering, St. George's, Bermuda

**SCOPE OF ASSESSMENT:** Asbestos assessment and reporting.

**ASSESSMENT CONDUCTED:** On Wednesday, June 23<sup>rd</sup>, 2021, ten (10) PLM samples were collected by BWC from Airport Industrial Site. The asbestos samples were subsequently via the EPA 600/R-93/116 Method using PLM (polarized light microscopy) to determine if they contained asbestos fibers.

The following documents were not available during this period of the works:

- original building drawings/specifications

**NOTE** - If a material could be sampled without significant aesthetic damage or in such a manner as not to be generally visible, BWC proceeded with the sample collection. BWC documented and photographed the material and location of any materials which may require aesthetic or other damage in the collection process.

## PHOTOGRAPHIC ASSESSMENT LOG

The following photos represent the various areas throughout the various units and structures.



Sample KOBE 8B – Building B Roofing – 20% Chrysotile



Sample KOBE 3B – Building A Thick Black Tar – No asbestos



Sample KOBE 4B - Building A Tar Paper – No asbestos



Sample KOBE 1B – Building A Roofing West – 20% Chrsotile



Sample KOBE 2B – Building A Roofing East – 20% Chrysotile



Roofing from Building A

Sample KOBE 1B – Building A Roofing West – 20% Chrysotile

Sample KOBE 2B – Building A Roofing East – 20% Chrysotile



**Building A**

*(No pictures of the floor tile taken due to Technician not being able to enter the Building)*

Sample KOBE 5B Floor Tile – Building A Floor Tile – No asbestos

Sample KOBE 5B Mastic – Building A Mastic – No asbestos

Sample KOBE 6B Floor Tile – Building A Floor Tile – No asbestos

Sample KOBE 6B Mastic – Building A Mastic – No asbestos

Sample KOBE 7B – Building A Ceiling Tile – No asbestos

## **LABORATORY RESULTS**





# EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077

Tel/Fax: (800) 220-3675 / (856) 786-5974

<http://www.EMSL.com> / [cinnasblab@EMSL.com](mailto:cinnasblab@EMSL.com)

EMSL Order: 042115403

Customer ID: BERM50

Customer PO:

Project ID:

**Attention:** Sean Dickinson  
Bermuda Water Consultants  
81 Somerset Road  
Sandys, MA 04

**Phone:** (441) 234-3139

**Fax:** (441) 234-3403

**Received Date:** 06/25/2021 8:00 AM

**Analysis Date:** 06/26/2021

**Collected Date:** 06/23/2021

**Project:** Airport Industrial Site PLM

## Test Report: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
KOBE-1B <small>042115403-0001</small>	1st Large Warehouse - Roofing West	Gray/Black Fibrous Homogeneous		80% Non-fibrous (Other)	20% Chrysotile
KOBE-2B <small>042115403-0002</small>	1st Large Warehouse - Roofing East	Gray/Black Fibrous Homogeneous		80% Non-fibrous (Other)	20% Chrysotile
KOBE-3B <small>042115403-0003</small>	1st Large Warehouse - Thick Black Tar	Black Non-Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
KOBE-4B <small>042115403-0004</small>	1st Large Warehouse - Tar Paper	Brown Fibrous Homogeneous	80% Cellulose	20% Non-fibrous (Other)	None Detected
KOBE-5B-Floor Tile <small>042115403-0005</small>	1st Large Warehouse - Floor Tile	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
KOBE-5B-Mastic <small>042115403-0005A</small>	1st Large Warehouse - Mastic	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
KOBE-6B-Floor Tile <small>042115403-0006</small>	1st Large Warehouse - Floor Tile	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
KOBE-6B-Mastic <small>042115403-0006A</small>	1st Large Warehouse - Mastic	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
KOBE-7B <small>042115403-0007</small>	1st Large Warehouse - Ceiling Tile	Brown/White Fibrous Homogeneous	50% Cellulose 40% Min. Wool	10% Non-fibrous (Other)	None Detected
KOBE-8B <small>042115403-0008</small>	Bathroom Building - Roofing	Gray/White Fibrous Homogeneous		80% Non-fibrous (Other)	20% Chrysotile

Analyst(s)

Mark Shuts (10)

Samantha Rundstrom, Laboratory Manager  
or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and meet method specifications unless otherwise noted. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method") but augmented with procedures outlined in the 1993 ("final") version of the method. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Estimation of uncertainty is available on request.

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036, PA ID# 68-00367, LA #04127

Initial report from: 06/28/2021 11:28:49

**ASBESTOS ASSESSMENT REPORT  
WHAT ARE THE NEXT STEPS?**

If your Asbestos Assessment Report indicates that there is **NO** asbestos in your building or in the area of the building for which renovations are planned, the Department of Planning will likely permit you to proceed with your renovations with no further asbestos precautions.

If your Asbestos Report indicates that asbestos is present, then the following steps should be following according to the Government Health Department guidelines:

1. Asbestos Abatement in most instances requires both the services of an Asbestos Abatement Contractor for the removal works, and an Asbestos Consultant for project planning, inspections, and air testing. Both are hired by the Building Owner/Project Manager; the Consultant providing independent checks and reporting to ensure the health and safety of the project.
2. Contact your Asbestos Consultant to discuss and determine your best options going forward. Bermuda Water Consultants is a Government Health Department approved Asbestos Consultant.
3. A list of Government Health Department approved Asbestos Abatement Contractors is included with these recommendations. **Only approved Asbestos Contractors are allowed to conduct asbestos related works.**
4. It is the responsibility of the Asbestos Contractor to apply for and be issued an Asbestos Abatement Permit from the Department of Environmental Health. **No asbestos project is allowed to proceed without the required Permit.**
5. Once the Permit is issued, the Asbestos Contractor will notify the Consultant of the planned start date and request a physical inspection of the asbestos containment and permission to proceed with the works.
6. Depending on the size, complexity and duration of the Abatement the Consultant will attend the job site periodically to inspect and take Air Samples.
7. When the Asbestos Contractor deems the Abatement to be complete, he will request the Consultant to conduct a Final Clearance Visual Inspection. If the Inspection **PASSES**, the Consultant will proceed to collect Final Clearance Air Samples (if practical and/or necessary). If the Air Tests **PASS** the Consultant will prepare and submit a written report to the Government Health Department that the Asbestos Abatement work is complete. The Health Department will issue a **Completion Certificate.**

8. The Completion Certificate together with the Consultant's Final Report will serve as documented proof of proper asbestos removal and disposal. This documentation can be given to relevant parties such as the Department of Planning, etc., so that renovations can continue as normal.
9. The Asbestos Contractor is responsible for delivery of the Asbestos Waste to the Ministry of Public Works Quarry in Bailey's Bay for disposal. The Building Owner is responsible for the disposal fees.

**HEALTH DEPARTMENT APPROVED ASBESTOS CONTRACTORS**

<b><u>COMPANY</u></b>	<b><u>CONTACT</u></b>	<b><u>NUMBER</u></b>
<b>TES Ltd.</b>	<b>Terry Sargeant</b>	<b>335-7676</b>
<b>AMR Services</b>	<b>Loren Belboda</b>	<b>337-0501</b>
<b>MAN Contracting</b>	<b>Murry Armstrong</b>	<b>707-2355</b>
<b>Island Construction Services</b>	<b>Allan DeSilva</b>	<b>236-3011</b>
<b>AC Management</b>	<b>Anthony Fubler</b>	<b>504-6294</b>
<b>SES</b>	<b>Jerry Bailey</b>	<b>505-1183</b>

