



FH ARC Abatement, Inc.  
225 South 12th Street  
Waco, Texas 76701

December 10, 2024

VIA Email

Jeff Benya, Asbestos Unit

Jason Wolf, Enforcement Unit

EGLE, AQD, P.O. Box 30260

SRN/ID: U822405402; Wayne County

Dear Jeff Benya and Jason Wolf:

## **INTRODUCTION**

FH ARC Abatement, LLC (ARC) acknowledges receipt of the Notice of Violation (NOV) dated December 2, 2024, concerning SRN/ID: U822405402 in Wayne County, Michigan. We take this matter seriously and are fully committed to addressing the issues raised, ensuring regulatory compliance, and collaborating with EGLE to resolve the matter efficiently.

## **BACKGROUND INFORMATION**

ARC is a trusted provider of environmental and abatement services with over 30 years of experience. We operate through seven regional offices, serving a diverse client base, including commercial, industrial, and governmental organizations. With a proven track record of regulatory compliance, we have maintained an excellent safety record, including no regulatory or OSHA violations in the past five years.

For the project in question, ARC relied on an updated NESHAP pre-demolition survey conducted by a licensed Michigan asbestos inspector to define the scope of work. Additionally, post-abatement inspections were carried out by a third party, Turnstone Environmental, to ensure thoroughness.

## **PROJECT SITE**

ARC was contracted by EnviroAnalytics Group, LLC, and the owner of the former Solutia Chemical Plant at 5045 West Jefferson Avenue, Trenton, Michigan. EnviroAnalytics Group commissioned Turnstone Environmental to conduct an updated NESHAP pre-demolition survey, which identified materials requiring abatement. ARC used this survey to develop the scope of work and executed abatement accordingly.

## **EGLE INSPECTION**

On October 24, 2024; and November 6, 2024, the Department of Environment, Great Lakes, and Energy (EGLE), Air Quality Division (AQD) conducted an inspection at the aforementioned property located at 5045 West Jefferson Avenue, Trenton, Wayne County, Michigan. The purpose of this inspection was to determine compliance with the requirements of Title 40 of the Code of Federal Regulations (40 CFR), Part 61, Subpart M (National Emission Standard for Asbestos), and Rule 942 of Part 55, Air Pollution Control of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended. Initiated by the request for a 10 day notification by the demolition contractor.





During the inspection, AQD staff noted a large industrial facility slated for demolition. Two buildings on the east side of the facility were inspected. AQD staff noted suspect thermal system insulation (TSI) debris remaining from the abatement project in the crawl space of the south building, as well as several mud fittings and vermiculite in the north building. AQD staff sampled the TSI debris and took a quality control sample of the plaster ceiling remaining in the north building. Both the TSI sample and the plaster sample tested positive for asbestos. Review of the survey documentation indicates that only one type of plaster was noted within the building (at least two were present) and that material tested negative for asbestos.

## **NOTICE OF VIOLATION**

Alleging ARC violated 40 CFR 61.145 (a), Failure to thoroughly inspect for asbestos prior to demolition. Additionally Alleging ARC violated 40 CFR 61.145(c)(1), Failure to remove RACM

### **Response to NOV I: Alleged Violation of 40 CFR 61.145(a)**

#### **Failure to thoroughly inspect for asbestos prior to demolition.**

ARC adhered to the scope defined by the updated NESHAP survey provided by Turnstone Environmental. This survey was prepared by a licensed asbestos inspector and referenced an older survey indicating limitations in analytical verification. ARC proceeded under the assumption that Turnstone re-sampled and verified prior findings, as noted in their report.

Additionally, ARC conducted grab sampling of suspect materials during abatement to ensure worker safety. These samples, tested by Apex Laboratories, were negative for asbestos (see attached results dated August 9, 2023). Post-abatement inspections by Turnstone further confirmed compliance within the defined scope.

### **Response to NOV II: Alleged Violation of 40 CFR 61.145(c)(1)**

#### **Failure to remove RACM.**

ARC performed RACM removal in accordance with the survey findings. This included glove bag removal of identified asbestos-containing pipe insulation and soil abatement within a four-foot radius of the pipes.

The materials identified during the inspection appear to originate from historical abatement activities outside ARC's contracted scope. Specifically:

Crawl space debris: Located on adjacent electrical panels, consistent with splatter from previous wet gross removal.

Other RACM identified by EGLE in the NOV was outside the scope of ARC work.

## **MITIGATION**

To ensure compliance and safety during the abatement process, ARC:

- Conducted additional grab sampling of suspect materials for verification during the project (see Apex results).
- Relied on updated survey findings by Turnstone Environmental to define the scope of work.

To show support for the inspection and approval process





- ARC mobilized and was present for the AQD inspection on November 6, 2024 to ensure potential concerns were identified and addressed
- Turnstone Environmental was contracted immediately to conduct additional surveys and sampling to provide information for identified concerns. Additional survey work was conducted on November 19, 2024 and the results have been attached to this response.
- Based on the results of the November 29, 2024 survey, ARC is preparing to complete the additional necessary work and will remobilize and address identified materials.
- Its ARC's intention to address the crawl space area with a thorough visual inspection, and removing any potential ACM debris in addition to newly identified ACM materials noted in the Turnstone November 29, 2024 report
- This work is anticipated to occur in early January 2025 prior to demolition of any of the associated structures.

ARC remains committed to resolving these issues and ensuring that all necessary steps are taken to address the newly identified materials.

#### **ATTACHMENTS**

1. Turnstone Environmental NESHAP Survey (dated December 1, 2022).
2. Apex Laboratory grab sample results (dated August 9, 2023).
3. Resampling results and analyses (dated November 29, 2024).
4. Crawl space inspection photos.

#### **CONCLUSION**

ARC performed all work within the defined scope and in compliance with regulatory requirements. However, we recognize the need for further action based on the new findings. ARC will coordinate with the owner to remobilize and address these materials, ensuring proper notification and compliance with NESHAP regulations before any additional work begins.

We remain committed to resolving the issues in a timely and cooperative manner. Please feel free to contact me directly with any questions or concerns.

Sincerely,

*Daniel Dittfurth*

Daniel Dittfurth

Health & Safety Director

FH ARC Abatement, LLC





Turnstone Environmental NESHAP Survey (dated  
December 1, 2022)



# **TURNSTONE EH&S, INC.**

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## **PRE-DEMOLITION ASBESTOS National Emissions Standard for Hazardous Air Pollutants (NESHAP) SURVEY for Eastman Solutia, Trenton, Michigan FACILITY BUILDINGS**

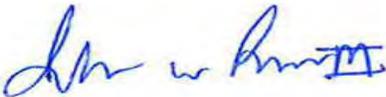
**FOR WORK PERFORMED AT:  
Eastman Solutia, Trenton, Michigan  
Facility Buildings  
5045 W Jefferson Ave,  
Trenton, Michigan  
48183**

**TURNSTONE PROJECT NUMBER:  
H22-0546**

**Prepared For:  
EnviroAnalytics Group, LLC  
Mr. Russ Becker  
1515 Des Peres Rd,  
Suite 300  
St. Louis, MO, 63131**

**Report Date: December 1, 2022**

**Prepared by:**



**John Powers  
Turnstone EH&S, Inc.  
Field Project Manager**

**Licensed Michigan Asbestos Inspector (No. A60076)  
EPA Accredited Asbestos Building Inspector**

**Approved by:**



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# Report Introduction

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PROJECT NUMBER: H22-0546

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## SCOPE OF WORK

Turnstone EH&S, Inc. (Turnstone) was contracted by Russ Becker of EnviroAnalytics Group to perform a pre-demolition NESHAP asbestos survey of buildings located at Eastman Solutia, 5045 W Jefferson Ave, Trenton, Michigan, 48183. The survey was conducted by licensed Michigan asbestos inspector (No. A60076) John Powers and EPA Accredited Asbestos Inspector Kyle Bihn. Suspect materials were sampled (607 bulk samples) and analyzed for asbestos through October 10, 2022, to November 8, 2022.

This is a pre-demolition survey and therefore destructive testing was performed where necessary. Each area listed under the scope of work for demolition was visually inspected for suspect materials, sampled, and all suspect materials delineated into homogenous areas (HA).

Upon initial inspection of the facility two types of non-suspect materials were identified. These two materials included fiberglass insulation, and non-ACM demarcated materials (blue-banded jacketed materials). To follow NESHAP sampling protocol, an initial survey of each of these materials was conducted site wide to verify negativity and eliminate the need for further sampling. In total thirty-five (35) samples of non-suspect materials were collected, and none were found to contain asbestos. This set of 35 samples was in addition to the 607 bulk samples collected of suspect materials.

Upon receipt of laboratory results, all areas found to be positive for asbestos were revisited to confirm quantity, condition, and for field demarcation. Where access was possible, all areas positive for asbestos were marked with Magenta-hued spray paint, and 'Danger – Asbestos' sign stickers for ease of identification. For areas that were not accessible, or for materials too large to effectively mark, attempts were made to paint nearby areas and structures with directional arrows, callouts, and writing the material's serialized number in plain view. Please reference Appendix 1 for example photos of demarcated materials in the field.

## **PROJECT LOCATION**

All the work described within this report was conducted at the Eastman Solutia, Trenton, Michigan Facility throughout the listed buildings:

1. Resin Administration Building
2. RJ Warehouse
3. Phos. Service Building
4. Phos. Administration Building
5. Phos. Warehouse
6. Buildings #9 & Stores
7. Buildings #8 & #7 (Maint. Shop)
8. Gelva Building
9. Butvar Building
10. Dryer Warehouse
11. Green Warehouse
12. Saflex Administration Building
13. Chem/Chiller Resins
14. New Control Building
15. Saflex Maint. Shop
16. Tech Annex
17. Learning Center

## SITE SURVEY HISTORY

The Eastman Solutia, Trenton, Michigan Facility has been recently decommissioned from service and is scheduled for demolition. The facility has some records of previous asbestos sampling and abatement work. These records and labeled materials in the field were taken into consideration when sampling, however due to the lack of complete laboratory data and survey records most previously catalogued materials were resampled for definitive proof of positivity/negativity. Some previous results provided were utilized to establish materials as Presumed Asbestos Containing Material (PACM) where sampling may not have been accessible or caused unnecessary damage to the suspect materials.

## TESTING & METHODOLOGY

Turnstone EH&S, Inc. performed all asbestos sampling in accordance with the appropriate regulatory methodology and/or guidelines as indicated in the table below.

Anal	Method	Description
Asbestos Bulk	EPA Method 600/R-93-116	Bulk samples were collected, placed in separate plastic bags, and labeled with unique identification numbers. Chain-of-custody forms were completed, signed, dated. The samples and chain-of-custody forms were transported to the lab for analysis.

### Laboratory Analysis

Based on results of the visual observation, suspect ACMs were collected in general accordance with AHERA sampling protocols. Bulk samples were collected, placed in separate plastic bags, and labeled with unique identification numbers. Chain-of-custody forms were completed, signed, dated. The samples and chain-of-custody forms were transported to Apex Precision Analytical Services, Inc. for analysis by polarized light microscopy per EPA methodology EPA/600R-93/116.

# Project Overview

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PROJECT NUMBER: H22-0546

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## **SAMPLING PROTOCOL**

The survey was conducted in general accordance with the sample collection protocols established in EPA regulation 40 CFR 763, the Asbestos Hazard Emergency Response Act (AHERA). The existing facility components were assessed to identify suspect ACMs, which were then grouped into three categories according to their intended use:

- Surfacing Materials – material that is sprayed on, troweled on, or otherwise applied to surfaces, such as acoustical plaster on ceilings and fireproofing materials on structural members, or other material on surfaces for acoustical, fireproofing, or other purposes.
- Thermal System Insulation (TSI) – material applied to pipes, fittings, boilers, breeching tanks, ducts, or other interior structural components to prevent heat loss or gain, water condensation, or for other purposes.
- Miscellaneous Materials – interior building materials on structural components, structural members, or fixtures, such as floor and ceiling tiles, but does not include surfacing materials or thermal system insulation.

## **VISUAL ASSESSMENT**

Initial survey activities included visual observation of the interior areas of the facility structures, equipment, piping, and components to identify homogeneous areas of suspect ACM. A homogeneous area consists of materials that appear similar throughout in terms of color, texture and consideration given to date of application. Interior assessment was conducted throughout visually accessible areas of the buildings. Materials identified as glass, wood, masonry, metal or rubber were not considered suspect ACM.

## **PHYSICAL ASSESSMENT**

A physical assessment of each homogeneous area of suspect ACM was conducted to assess the friability and condition of the materials. A friable material is defined by the EPA as a material which can be crumbled, pulverized, or reduced to powder by hand pressure when dry. Friability was assessed by physically touching suspect materials.

## **SAMPLE COLLECTION AND ANALYTICAL**

Based on results of the visual observation, samples of suspect ACMs were collected in general accordance with AHERA sampling protocols. Bulk samples were collected, placed in plastic bags, and labeled with unique identification number. Chain-of-custody forms were completed, signed, dated, and along with the bulk samples transported to Apex Precision Analytical Services, Inc. for analysis by polarized light microscopy per EPA methodology EPA/600R-93/116.

## **REGULATORY OVERVIEW**

The asbestos NESHAP (40 CFR Part 61, Subpart M) and Texas Asbestos Health Protection Rules (Chapter 295, Subchapter C - Texas Administrative Code) regulates asbestos fiber emissions and asbestos waste disposal practices. It also requires the identification and classification of existing building materials prior to demolition or renovation activity. Under NESHAP, asbestos-containing building materials are classified as either friable, Category I non-friable or Category II non-friable ACM. Friable materials are those that, when dry, may be crumbled, pulverized or reduced to powder by hand pressure and contain more than 1% asbestos. Category I non-friable ACM includes packing's, gaskets, resilient floor coverings & associated mastics and asphalt roofing products containing more than 1% asbestos. Category II non-friable ACM are any materials other than Category I materials that contain more than 1% asbestos. Friable ACM, Category I and Category II non-friable ACM which is in poor condition and has become friable or which will be subjected to drilling, sanding, grinding, cutting or abrading and which could be crushed or pulverized during anticipated renovation or demolition activities are considered regulated ACM (RACM).

Before performing any demolition in a facility, facility owners shall ensure that all friable asbestos-containing material (ACM) or ACM which may become friable (i.e. Category II nonfriable ACM) are surveyed and abated in accordance with 40 CFR Part 61, Subpart M. Before performing any renovation in a facility, facility owners are required to survey and perform asbestos abatement for all asbestos-containing building material (ACBM) that could foreseeably be disturbed in the area to be renovated in accordance with these rules. The asbestos survey and abatement for the demolition and/or renovation shall be conducted by persons accredited in accordance with these rules, and according to the standards for removal specified in §§295.58 - 295.60 of this title.

# Survey Limitations

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## DESCRIPTION OF SURVEY AND REPORT LIMITATIONS

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Survey findings and recommendations are subject to the following limitations:

1. This sampling was based on conditions existing at the time the sampling was conducted.
2. The samples collected are representative of the specific time and location where they were collected and may or may not be indicative of all conditions throughout the entire facility.
3. Despite using destructive sampling protocols some areas were not accessible for sampling at the time of the survey. Limitations on confined space entry prevented access to internals of some areas between walls, large equipment, and internal spaces. Access was also limited to equipment and piping joins such as flange faces, friction surfaces, and equipment pads. Special care should be taken to identify suspect materials when accessing these spaces.

The recommendations and conclusions contained within this report represent the best professional judgment of Turnstone EH&S, Inc. based on the data contained herein and should be reviewed in its entirety. Turnstone EH&S, Inc. is not responsible for third party review of this document or for the use of this information outside of its intended purpose.

All occupational health inquiries should be referred to an occupational physician knowledgeable in the chemical and/or physical exposures found in the workplace.

# Unit Survey Results

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PROJECT NUMBER: H22-0546

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## Overall Unit Survey Results

The survey of buildings throughout the Eastman Solutia facility was conducted by licensed Michigan asbestos inspector (No. A60076) John Powers and EPA Accredited Asbestos Inspector Kyle Bihn. Suspect materials were sampled, homogeneous areas (HAs) were identified, assessed for condition, and quantified.

Between October 10, 2022, and November 8, 2022, Turnstone collected 607 bulk samples from buildings throughout the Eastman Solutia Facility. **Of these six-hundred and seven (607) bulk samples, one-hundred and fifty-seven (157) samples were found positive for asbestos. These one-hundred and fifty-seven (157) positive samples represent fifty-seven (57) HAs of ACM that remain present through the facilities' buildings.** The following tables and sections list these areas per relevant building.

For further information regarding individual samples and laboratory results see Appendix 2 for the PLM Laboratory Analytical Results, and Chain of Custody, and see Appendix 3 for a Spreadsheet Summarizing PLM samples

## Resin Administration Building -- Summary

The Resin Administration Building is a red brick and mortar two story structure located on the Southeast side of the facilities' footprint. The internal spaces include general offices, locker room facilities and laboratory facilities. Of the sixty-four (64) samples collected from resin administration building twenty-five (25) were found to be positive for asbestos. These twenty-five (25) samples represent seven (7) HAs of ACM.

- The seven (7) HAs found within the Resin Administration building were estimated to account for >40 linear feet (lf), and 10,870 ft<sup>2</sup> of ACM
- Three (3) of the seven (7) identified HAs are classified as RACM, all are >1% asbestos by concentration and shall be removed prior to any demolition/renovation activities. (HAs 13,15,16)
- Three (3) of the remaining four (4) HAs are classified as Category I non-friable materials. (HAs 6, 8, 30)
- The remaining HA was established as PACM and is classified as Category II non-friable material. (PACM-1)

Please review Appendix 1 for examples of field demarcation and labeling of established HAs, Appendix 2 for the PLM Laboratory Analytical Results, and Chain of Custody, and see Appendix 3 for a Spreadsheet Summarizing PLM samples for more detailed information regarding results.

## Resin Administration Building -- Table of Positive HAs

HA #	Unit	HA Description	Material Classification	Quality
HA-6	Resin Admin	Light brown 9x9 floor tile throughout 2nd floor, Stairwells, and 1st floor Vault room of Resin Admin Bldg.	Misc., Non-Friable	2000 ft <sup>2</sup>
HA-8	Resin Admin	Tan marble 9x9 floor tile of 2nd floor breakroom, NE corner of building.	Misc., Non-Friable	200 ft <sup>2</sup>
HA-13	Resin Admin	All Wall systems throughout 1st floor of Resin Admin Bldg.	Surfacing, Friable	5000 ft <sup>2</sup>
HA-15	Resin Admin	White smooth wall system throughout 2nd floor of Resin Admin Bldg.	Surfacing, Friable	3500 ft <sup>2</sup>
HA-16	Resin Admin	White wrapped/labeled Utility lines presumed throughout building. Visible E side of 2nd floor HVAC Rm, N most Lab 1st floor, and NW corner of Vault Rm	TSI, Friable	>40 lf

**Note: lf is linear footage, ft<sup>2</sup> is square footage. All quantities are approximations and must be confirmed by the contractor.**

## Resin Administration Building -- Table of Positive HAs -- Cont.

HA #	Unit	HA Description	Material Classification	Quality
<b>PACM-1</b>	Resin Admin	Back paneling of older vent hoods in central 1st floor lab, SW most units (x2)	Misc., Non-Friable	50 ft <sup>2</sup>
<b>HA-30</b>	Resin Admin	Interior metal fire doors w/ 9"x9" central window. Example: S entrance door to 1st floor Lab from building interior.	Misc., Non-Friable	120 ft <sup>2</sup>

**Note: If is linear footage, ft<sup>2</sup> is square footage. All quantities are approximations and must be confirmed by the contractor.**

## RJ Warehouse -- Summary

The RJ Warehouse is a gray metal sided; single story warehouse structure located on the Southwest side of the facilities' footprint. The internal spaces include a general office, and an open warehouse floorplan. Of the twenty-seven (27) samples collected from the RJ Warehouse, six (6) were found to be positive for asbestos. These six (6) samples represent two (2) HAs of ACM.

- The two (2) HAs found within the RJ Warehouse were estimated to account for 25 lf, and 150 ft<sup>2</sup> of ACM
- Both identified HAs are classified as Category I non-friable materials.

Please review Appendix 1 for examples of field demarcation and labeling of established HAs, Appendix 2 for the PLM Laboratory Analytical Results, and Chain of Custody, and see Appendix 3 for a Spreadsheet Summarizing PLM samples for more detailed information regarding results.

## RJ Warehouse -- Table of Positive HAs

HA #	Unit	HA Description	Material Classification	Quantity
HA-23	RJ Warehouse	Cream 12x12 floor tile, northwest office of RJ Warehouse	Misc., Non-Friable	150 ft <sup>2</sup>
HA-28	RJ Warehouse	Grey caulking on vent seams of RJ Warehouse	Misc., Non-Friable	25 lf

**Note: lf is linear footage, ft<sup>2</sup> is square footage. All quantities are approximations and must be confirmed by the contractor.**

## Phos. Service Building -- Summary

The Phos. Service Building is a red brick and mortar single story structure located on the Northeast side of the facilities' footprint. The internal spaces include general offices, medical facilities, locker facilities, a basement, and a credit union facility. Of the eighty-six (86) samples collected from the Phos. Service Building, twenty-four (24) were found to be positive for asbestos. These twenty-four (24) samples represent eight (8) HAs of ACM.

- The eight (8) HAs found within the Phos. Service Building were estimated to account for >110 lf, and 1950 ft<sup>2</sup> of ACM.
- One (1) of the eight (8) HAs is classified as RACM, all are >1% asbestos by concentration and shall be removed prior to any demolition/renovation activities. (HA-37)
- The seven (7) remaining HAs are classified as Category I non-friable materials.

Please review Appendix 1 for examples of field demarcation and labeling of established HAs, Appendix 2 for the PLM Laboratory Analytical Results, and Chain of Custody, and see Appendix 3 for a Spreadsheet Summarizing PLM samples for more detailed information regarding results.

## Phos. Service Building -- Table of Positive HAs

HA #	Unit	HA Description	Material Classification	Quantity
HA-33	Phos. Service	Window caulking on old style windows, East side of building	Misc., Non-Friable	50 lf
HA-37	Phos. Service	Grey wrapped and labeled 1-2" piping throughout crawl spaces of basement	TSI, Friable	>60 lf
HA-38	Phos. Service	White 9x9 floor tile in N most room of Phos Service basement	Misc., Non-Friable	150 ft <sup>2</sup>
HA-39	Phos. Service	Brown 12x12 floor tile in northwest bathroom of Phos Services Bldg.	Misc., Non-Friable	200 ft <sup>2</sup>
HA-40	Phos. Service	Grey 12x12 floor tile in northwest offices Phos Services Bldg.	Misc., Non-Friable	150 ft <sup>2</sup>

**Note: If is linear footage, ft<sup>2</sup> is square footage. All quantities are approximations and must be confirmed by the contractor.**

**Phos. Service Building -- Table of Positive HAs -- Cont.**

HA #	Unit	HA Description	Material Classification	Quantity
HA-41	Phos. Service	Red 12x12 floor tiles north and south offices of northwest offices Phos Services Bldg.	Misc., Non-Friable	150 ft <sup>2</sup>
HA-44	Phos. Service	Dark brown floor tile 9x9 southern office of Phos Services Bldg.	Misc., Non-Friable	500 ft <sup>2</sup>
HA-45	Phos. Service	Layered flooring system, light grey floor tile, 12x12 northeast offices of Phos Services Bldg.	Misc., Non-Friable	800 ft <sup>2</sup>

**Note: If is linear footage, ft<sup>2</sup> is square footage. All quantities are approximations and must be confirmed by the contractor.**

## Phos. Administration Building -- Summary

The Phos. Administration Building is a red brick and mortar single story structure located on the Northeast side of the facilities' footprint. The internal spaces include general offices, admissions atrium, server room, and subfloor offices. Of the forty-seven (47) samples collected from the Phos. Service Building, eighteen (18) were found to be positive for asbestos. These eighteen (18) samples represent six (6) HAs of ACM.

- The six (6) HAs found within the Phos. Administration Building were estimated to account for >100 lf, and 14200 ft<sup>2</sup> of ACM.
- One (1) of the six (6) HAs is classified as RACM, all are >1% asbestos by concentration and shall be removed prior to any demolition/renovation activities. (HA-70)
- The five (5) remaining HAs are classified as Category I non-friable materials.

Please review Appendix 1 for examples of field demarcation and labeling of established HAs, Appendix 2 for the PLM Laboratory Analytical Results, and Chain of Custody, and see Appendix 3 for a Spreadsheet Summarizing PLM samples for more detailed information regarding results.

## Phos. Administration Building -- Table of Positive HAs

HA #	Unit	HA Description	Material Classification	Quantity
HA-58	Phos. Admin	Brown marble tile under carpet, throughout 1st floor, Phos admin	Misc., Non-Friable	4000 ft <sup>2</sup>
HA-60	Phos. Admin	White 2x3 ceiling tile throughout 1st and sub-floor, Phos Admin	Misc., Non-Friable	3000 ft <sup>2</sup>
HA-65	Phos. Admin	Red 9x9 floor tiles, north offices, sub floor, under carpet Phos admin	Misc., Non-Friable	1200 ft <sup>2</sup>
HA-67	Phos. Admin	White speckled 12x12 floor tile at vault and south offices, sub floor, Phos admin	Misc., Non-Friable	3000 ft <sup>2</sup>
HA-68	Phos. Admin	White marble pattern 9x9 ceiling tile throughout south wing of subfloor, Phos admin	Misc., Non-Friable	3000 ft <sup>2</sup>
HA-70	Phos. Admin	White wrapped utility lines presumed throughout building, visible in sub floor mechanical room and vault, Phos admin	TSI, Friable	>100 lf

**Note: lf is linear footage, ft<sup>2</sup> is square footage. All quantities are approximations and must be confirmed by the contractor.**

## Phos. Warehouse -- Summary

The Phos. Warehouse is a gray metal sided structure located on the Northeast side of the facilities' footprint. The internal spaces include general offices, warehouse floorplan, and loading bay areas. Of the twenty-seven (27) samples collected from the Phos. Warehouse, none were found to be positive for asbestos. However, one PACM HA was established based on labeling found during the survey.

- The one (1) HAs found within the Phos. Warehouse was estimated to account for >15 lf of ACM
- The one (1) HAs is classified as RACM and shall be removed prior to any demolition/renovation activities. (PACM-2)

Please review Appendix 1 for examples of field demarcation and labeling of established HAs, Appendix 2 for the PLM Laboratory Analytical Results, and Chain of Custody, and see Appendix 3 for a Spreadsheet Summarizing PLM samples for more detailed information regarding results.

## Phos. Warehouse -- Table of Positive HAs

HA #	Unit	HA Description	Material Classification	Quantity
PACM-2	Phos Warehouse	~2" utility line in pump shed, ground level, West end of warehouse, central section of W loading area	TSI, Friable	>15 lf

**Note: If is linear footage. All quantities are approximations and must be confirmed by the contractor.**

## Stores and #9 Building -- Summary

The Stores and #9 Building is a set of red brick and red metal sided, single story buildings located on the central West side of the facilities' footprint. The internal spaces include a general office and storerooms. Of the twenty-two (22) samples collected from the Stores and #9 Building, nine (9) were found to be positive for asbestos. These nine (9) samples represent three (3) HAs of ACM.

- The three (3) HAs found within the Stores and #9 Building were estimated to account for 145 lf, and 400 ft<sup>2</sup> of ACM.
- One (1) of the three (3) HAs is classified as RACM, all are >1% asbestos by concentration and shall be removed prior to any demolition/renovation activities. (HA-108)
- The two (2) remaining HAs are classified as Category I non-friable materials.

Please review Appendix 1 for examples of field demarcation and labeling of established HAs, Appendix 2 for the PLM Laboratory Analytical Results, and Chain of Custody, and see Appendix 3 for a Spreadsheet Summarizing PLM samples for more detailed information regarding results.

## Stores and #9 Building -- Table of Positive HAs

HA #	Unit	HA Description	Material Classification	Quantity
HA-104	Stores / Building 9	Grey 9x9 floor tile in SW office area of the Stores/Bldg. 9	Misc., Non-Friable	400 ft <sup>2</sup>
HA-108	Stores / Building 9	Off white wrapped condensate and steam lines in north storage bay area of Stores/Bldg9	TSI, Friable	125 lf
HA-109	Stores / Building 9	Interior window caulking on N most windows of north bay area of Stores/Bldg9	Misc., Non-Friable	20 lf

**Note: lf is linear footage, ft<sup>2</sup> is square footage. All quantities are approximations and must be confirmed by the contractor.**

## Buildings #7/#8 -- Summary

Buildings #7/#8 are a set of red brick sided; single story buildings located on the central section of the Resins facilities' footprint. The internal spaces include a general office, maintenance shop, and utility equipment rooms. Of the twenty-two (22) samples collected from the Buildings #7/#8, nine (9) were found to be positive for asbestos. These nine (9) samples represent two (2) HAs of ACM.

- The two (2) HAs found within the #7/#8 Buildings were estimated to account for 550 ft<sup>2</sup> of ACM.
- One (1) of the two (2) HAs is classified as RACM, all are >1% asbestos by concentration and shall be removed prior to any demolition/renovation activities. (HA-117)
- The one (1) remaining HAs is classified as Category I non-friable materials.

Please review Appendix 1 for examples of field demarcation and labeling of established HAs, Appendix 2 for the PLM Laboratory Analytical Results, and Chain of Custody, and see Appendix 3 for a Spreadsheet Summarizing PLM samples for more detailed information regarding results.

## Buildings #7/#8 -- Table of Positive HAs

HA #	Unit	HA Description	Material Classification	Quantity
HA-110	Building 7-8	9x9 Green floor tile in Maint. shop offices, SW side of building	Misc., Non-Friable	200 ft <sup>2</sup>
HA-117	Building 8 7-8	Body and heads of NAOH storage tank 2165, ENE exterior of Maint shop building.	TSI, Friable	350 ft <sup>2</sup>

**Note: ft<sup>2</sup> is square footage. All quantities are approximations and must be confirmed by the contractor.**

## Gelva Building -- Summary

The Gelva Building is a red brick sided multi storied building located on the South section of the facilities' footprint. The internal spaces include process equipment housings. Of the forty-five (45) samples collected from the Gelva Building, twelve (12) were found to be positive for asbestos. These twelve (12) samples represent four (4) HAs of ACM.

- The four (4) HAs found within the Gelva Building were estimated to account for 25 lf, and 1000 ft<sup>2</sup> of ACM.
- All four (4) of the HAs are classified as RACM, all are >1% asbestos by concentration and shall be removed prior to any demolition/renovation activities.

Please review Appendix 1 for examples of field demarcation and labeling of established HAs, Appendix 2 for the PLM Laboratory Analytical Results, and Chain of Custody, and see Appendix 3 for a Spreadsheet Summarizing PLM samples for more detailed information regarding results.

## Gelva Building -- Table of Positive HAs

HA #	Unit	HA Description	Material Classification	Quantity
HA-162	Gelva Building	Body and heads of TK-TA-137 "Hot Water" Drum, SW side of Gelva Exterior	TSI, Friable	200 ft <sup>2</sup>
HA-164	Gelva Building	White mastic wrap on valves, straights, and joints on city water lines, 1st floor of Gelva	TSI, Friable	15 lf
HA-169	Gelva Building	White wrap on city water joints and valves, 3rd floor, Gelva, NE side of floor	TSI, Friable	10 lf
HA-170	Gelva Building	body and head Coating and insulation on TA-133, 3rd floor, Gelva, SW side of floor	TSI, Friable	800 ft <sup>2</sup>

**Note: lf is linear footage, ft<sup>2</sup> is square footage. All quantities are approximations and must be confirmed by the contractor.**

## Butvar Building -- Summary

The Butvar Building is a red brick sided multi storied building with many windows located on the Central Southeast section of the facilities' footprint. The internal spaces include process equipment housings, and a locker room. Of the sixty-three (63) samples collected from the Butvar Building, thirty-nine (39) were found to be positive for asbestos. These thirty-nine (39) samples represent fourteen (14) HAs of ACM.

- The fourteen (14) HAs found within the Butvar Building were estimated to account for 624 lf of ACM.
- Thirteen (13) of the fourteen (14) HAs are classified as RACM, all are >1% asbestos by concentration and shall be removed prior to any demolition/renovation activities.
- The remaining one (1) HA is classified as Category I non-friable material. (HA-160)

Please review Appendix 1 for examples of field demarcation and labeling of established HAs, Appendix 2 for the PLM Laboratory Analytical Results, and Chain of Custody, and see Appendix 3 for a Spreadsheet Summarizing PLM samples for more detailed information regarding results.

## Butvar Building -- Table of Positive HAs

HA #	Unit	HA Description	Material Classification	Quantity
HA-140	Butvar Building	Black/grey mastic and insulation on 12" line off TA-171 and TA-172, SW side of Butvar ground level exterior	TSI, Friable	55 lf
HA-142	Butvar Building	Grey wrapped 4" line from TA-172 to Butvar Building, first level of decking, South side building exterior	TSI, Friable	55 lf
HA-143	Butvar Building	Gelva varnish line, from rack off 1st deck travels from deck to 3rd floor building, SW side of Butvar exterior	TSI, Friable	55 lf
HA-144	Butvar Building	HP steam line, from rack off 1st deck to 2nd floor Butvar building, SW side of Butvar exterior	TSI, Friable	20 lf
HA-146	Butvar Building	LP steam line, southeast corner on roof (lower roof) of Butvar building	TSI, Friable	10 lf
HA-148	Butvar Building	Drain lines north side area of 3rd floor of Butvar, 5ft south of VE-212	TSI, Friable	25 lf

**Note: lf is linear footage. All quantities are approximations and must be confirmed by the contractor.**

## Butvar Building -- Table of Positive HAs -- Cont.

HA #	Unit	HA Description	Material Classification	Quantity
HA-149	Butvar Building	Yellow painted steam lines throughout Butvar, visible west side 3rd floor	TSI, Friable	100 lf
HA-150	Butvar Building	Green painted wrap and insulation on city water line 3rd floor Butvar, 5ft east of Butvar buffer tank	TSI, Friable	>2 lf
HA-151	Butvar Building	Orange painted lines throughout Butvar building, visible 3rd floor, east of Butvar buffer tank	TSI, Friable	20 lf
HA-152	Butvar Building	Gelva varnish line, interior 3rd floor Butvar building, South of #4 hydro vessel, SE section of room	TSI, Friable	25 lf
HA-154	Butvar Building	LP Steam line Southwest side of 3rd floor Butvar building, @ southwest door	TSI, Friable	20 lf
HA-156	Butvar Building	White mastic on tower water return lines, throughout N area of 2nd and first Butvar floors, on Elbows and joins.	TSI, Friable	30 lf
HA-157	Butvar Building	White condensate line south of VE-225, 2nd floor Butvar	TSI, Friable	7 lf
HA-160	Butvar Building	White Window caulking throughout Butvar building, material is inconsistent in presence on seams of windows, visible on W side 1st floor, interior and exterior of windows	Misc., Non-Friable	>200 lf

**Note: lf is linear footage. All quantities are approximations and must be confirmed by the contractor.**

## Dryer Warehouse Building -- Summary

The Dryer Warehouse Building is a red brick sided multi storied building located on the South section of the facilities' footprint. The internal spaces include process equipment housings. Of the forty-two (42) samples collected from the Dryer Warehouse Building, fifteen (15) were found to be positive for asbestos. These fifteen (15) samples represent seven (7) HAs of ACM.

- The seven (7) HAs found within the Dryer Warehouse Building were estimated to account for 416 lf, and 5200 ft<sup>2</sup> of ACM.
- five (5) of the seven (7) HAs are classified as RACM, all are >1% asbestos by concentration and shall be removed prior to any demolition/renovation activities.
- The remaining two (2) HAs are classified as Category I non-friable materials.

Please review Appendix 1 for examples of field demarcation and labeling of established HAs, Appendix 2 for the PLM Laboratory Analytical Results, and Chain of Custody, and see Appendix 3 for a Spreadsheet Summarizing PLM samples for more detailed information regarding results.

## Dryer Warehouse Building -- Table of Positive HAs

HA #	Unit	HA Description	Material Classification	Quantity
HA-209	Dryer Warehouse	2" drain line in 1st floor bathroom, SE side of Dryer WH	TSI, Friable	6 lf
HA-210	Dryer Warehouse	Yellow radiator line in 1st floor bathroom, SE side of Dryer WH	TSI, Friable	10 lf
HA-212	Dryer Warehouse	Yellow coated steam line throughout dryer building, visible on W side of main WH floor, also on upper floors.	TSI, Friable	>150 lf
HA-213	Dryer Warehouse	Orange coated condensate line throughout dryer building, visible on W side of main WH floor, also on upper floors.	TSI, Friable	>150 lf
HA-214	Dryer Warehouse	Roofing materials from roof of dryer warehouse	Misc., Non-Friable	5000 ft <sup>2</sup>
PACM-4	Dryer Warehouse	Window Caulking on interior side of windows throughout 2nd and 3rd floors of Dryer WH	Misc., Non-Friable	>100 lf
PACM-5	Dryer Warehouse	Mastic/ Insulation on 36"+ overhead "Y" joint, off Polyvinyl Butyral columns, South Central section of Dryer Exterior	TSI, Friable	200 ft <sup>2</sup>

**Note: lf is linear footage, ft<sup>2</sup> is square footage. All quantities are approximations and must be confirmed by the contractor.**

## Green Warehouse -- Summary

The Green Warehouse is a gray metal sided structure located on the Northwest side of the facilities' footprint, the internal space of the building is a warehouse floorplan and loading bay areas. Of the fourteen (14) samples collected from the Green Warehouse, none were found to be positive for asbestos. However, one PACM HA was established based on labeling found during the survey and previous records.

- The one (1) HAs found within the Phos. Warehouse was estimated to account for >30 lf of ACM
- The one (1) HAs is classified as RACM and shall be removed prior to any demolition/renovation activities. (PACM-3)

Please review Appendix 1 for examples of field demarcation and labeling of established HAs, Appendix 2 for the PLM Laboratory Analytical Results, and Chain of Custody, and see Appendix 3 for a Spreadsheet Summarizing PLM samples for more detailed information regarding results.

## Green Warehouse -- Table of Positive HAs

HA #	Unit	HA Description	Material Classification	Quantity
PACM-3	Green Warehouse	White Wrap on elbows and joints of overhead line runs on steam piping	TSI, Friable	30 lf

**Note: If is linear footage. All quantities are approximations and must be confirmed by the contractor.**

## Saflex Admin Building -- Summary

The Saflex Admin Building is a red brick sided building located on the Central East section of the facilities' footprint. The internal spaces include general offices, a medical facility, locker room areas, and a laboratory facility. Of the sixty (60) samples collected from the Saflex Admin Building, three (3) were found to be positive for asbestos. While these three (3) samples did have trace levels of asbestos they were determined to be <1% asbestos by concentration failing to meet the criteria of ACM by NESHAP definitions. For the sake of reporting this material was included as an HA for the final report.

- The one (1) HAs found within the Saflex Admin Building was estimated to account for 800 ft<sup>2</sup> of ACM.
- The material found in HA-277 was reported to have <1% asbestos by concentration via analysis by polarized light microscopy per EPA methodology EPA/600R-93/116. thus, not meeting NESHAPS definition of ACM. However, these materials are still covered by OSHA 1926.1101 which states all asbestos materials be handled following the procedures listed in the standards paragraphs (g)(1) [excluding (g)(1)(i)], (g)(2) and (g)(3). Unless work practice is proven to be below the PEL.

Please review Appendix 1 for examples of field demarcation and labeling of established HAs, Appendix 2 for the PLM Laboratory Analytical Results, and Chain of Custody, and see Appendix 3 for a Spreadsheet Summarizing PLM samples for more detailed information regarding results.

## Saflex Admin Building -- Table of Positive HAs

HA #	Unit	HA Description	Material Classification	Quantity
HA-277	Saflex Admin	<u>&lt;1% material</u> Smooth wall system throughout SE offices of Saflex Admin Bldg.	Surfacing, Friable	800 ft <sup>2</sup>

**Note: ft<sup>2</sup> is square footage. All quantities are approximations and must be confirmed by the contractor.**

## **Chemical, Chiller, and Support Buildings -- Summary**

The Chemical, Chiller, and support buildings are representative of the various support buildings (MCCs, Switch houses, Pump sheds) located throughout the facilities' footprint. Of the twenty-one (21) samples collected from the Chemical, Chiller, and support buildings none were found to be positive for asbestos.

- While no positive samples or PACM HAs were established for the Chemical, Chiller, and support buildings, care should be taken during the duration of demolition/renovation activities to be vigilant for the discovery of any new suspect materials not outlined within this report.

Please review Appendix 2 for the PLM Laboratory Analytical Results, and Chain of Custody, and see Appendix 3 for a Spreadsheet Summarizing PLM samples for more detailed information regarding results.

## **New Control Building -- Summary**

The New Control Building is a red brick and mortar single story building on the Southeast most corner of the facility foot plan, the interior is comprised of general offices, and a control room. Of the forty-seven (47) samples collected from the New Control Building none were found to be positive for asbestos.

- While no positive samples or PACM HAs were established for the New Control Building, care should be taken during the duration of demolition/renovation activities to be vigilant for the discovery of any new suspect materials not outlined within this report.

Please review Appendix 2 for the PLM Laboratory Analytical Results, and Chain of Custody, and see Appendix 3 for a Spreadsheet Summarizing PLM samples for more detailed information regarding results.

## **Saflex Maint. Shop -- Summary**

The Saflex Maint. Shop is a red brick and mortar single story building on the Southeast most corner of the facility foot plan, the interior is comprised of general offices, and a control room. Of the twenty-six (26) samples collected from the Saflex Maint. Shop none were found to be positive for asbestos.

- While no positive samples or PACM HAs were established for the Saflex Maint. Shop, care should be taken during the duration of demolition/renovation activities to be vigilant for the discovery of any new suspect materials not outlined within this report.

Please review Appendix 2 for the PLM Laboratory Analytical Results, and Chain of Custody, and see Appendix 3 for a Spreadsheet Summarizing PLM samples for more detailed information regarding results.

## **Tech Annex Building -- Summary**

The Tech Annex Building is a red brick and mortar single story building on the central East section of the facility footprint, the interior is comprised of general offices. Of the twenty-five (25) samples collected from the Tech Annex Building none were found to be positive for asbestos.

- While no positive samples or PACM HAs were established for the Tech Annex Building, care should be taken during the duration of demolition/renovation activities to be vigilant for the discovery of any new suspect materials not outlined within this report.

Please review Appendix 2 for the PLM Laboratory Analytical Results, and Chain of Custody, and see Appendix 3 for a Spreadsheet Summarizing PLM samples for more detailed information regarding results.

## **Learning Center Building -- Summary**

The Learning Center Building is a cream metal sided and red brick and mortar single story building on the Northeast most corner of the facility footprint, the interior is comprised of general offices, training rooms, and conference hall. Of the thirty-seven (37) samples collected from the Learning Center Building none were found to be positive for asbestos.

- While no positive samples or PACM HAs were established for the Learning Center Building, care should be taken during the duration of demolition/renovation activities to be vigilant for the discovery of any new suspect materials not outlined within this report.

Please review Appendix 2 for the PLM Laboratory Analytical Results, and Chain of Custody, and see Appendix 3 for a Spreadsheet Summarizing PLM samples for more detailed information regarding results.

# Survey Recommendations

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## Survey Conclusion and Recommendations

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Between October 10, 2022, and November 8, 2022, Turnstone collected 607 bulk samples from process areas throughout the Eastman Solutia Facility. Of these 607 bulk samples, 157 samples were found positive for asbestos. These 157 positive samples represent fifty-seven (57) HAs of ACM that remain present through the facilities' process areas.

- As per NESHAP rules, all areas of ACM found to be RACM must be removed from work areas prior to any demolition/renovation activities commence.
- Work Plans must be drafted for the asbestos abatement, demolition procedures, work practices, waste handling and disposal procedures, and asbestos training requirements.
- A NESHAP Competent Person must be present during the entire demolition process to assess materials disturbed by demolition activities that may have been previously not identified and sampled by the survey.
- If any new suspect material(s) are uncovered during the demolition process work must halt and the uncovered material(s) must be treated as PACM until it can be properly analyzed, and the presence of asbestos is either confirmed or refuted.
- Not all the materials positive for asbestos were accessible for demarcation with Magenta hued spray paint and 'Danger – Asbestos' sign stickers. Care should be taken throughout the facility where any suspect material(s) may be present regardless of the use of field demarcation. The HA information listed in this report shall be the main source of information regarding the locations of positive materials. Examples of demarcated areas are listed in Appendix 1 for reference.

The recommendations and conclusions contained within this report represent the best professional judgment of Turnstone EH&S, Inc. based on the data contained herein and should be reviewed in its entirety. Turnstone EH&S, Inc. is not responsible for third party review of this document or for the use of this information outside of its intended purpose.

# **Appendices**

**Appendix 1: Examples of Demarcated Positive Materials**

**Appendix 2: Laboratory Analytical Results, Chain of Custody,  
and Field Generated Paperwork**

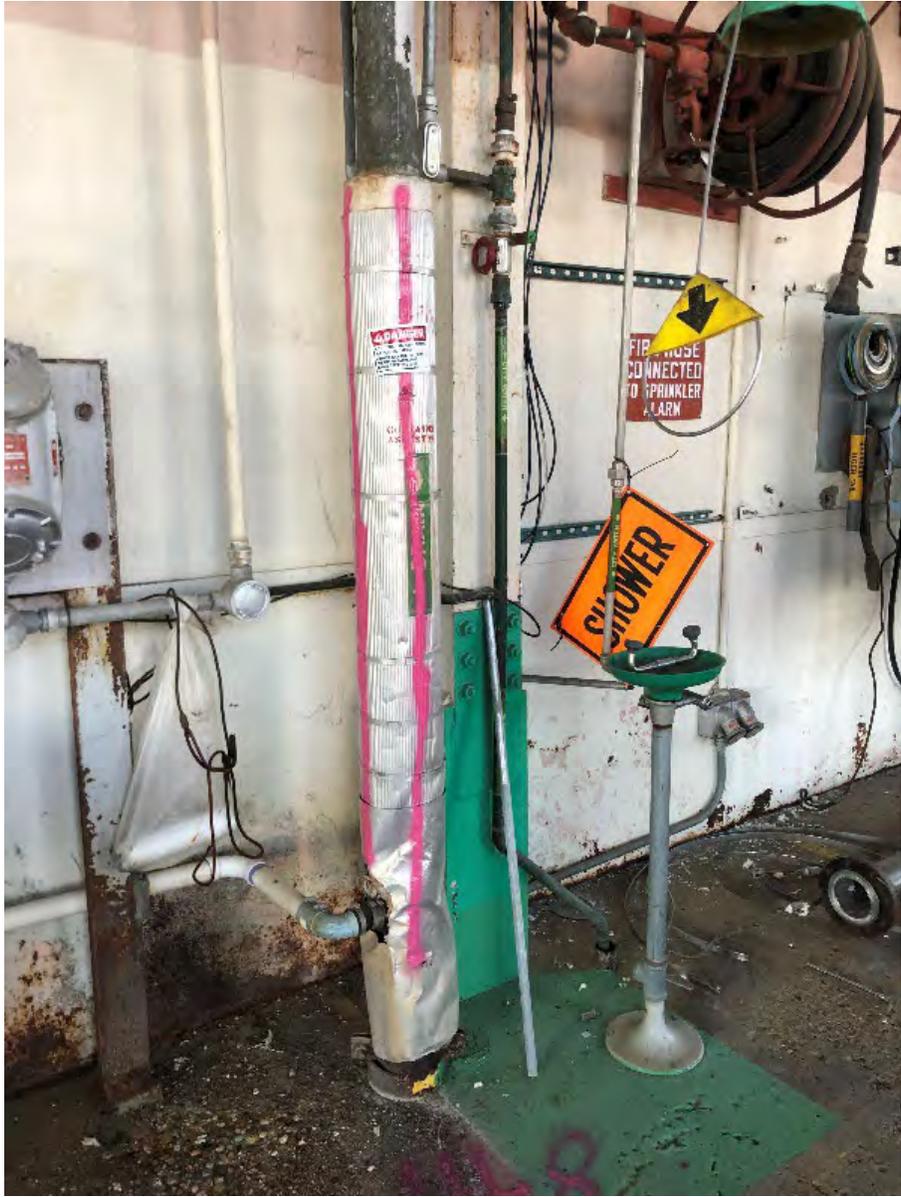
**Appendix 3: Spreadsheet Summarizing PLM samples and Homogenous Areas**

**Appendix 4: Inspector Credentials**

## **Appendix 1: Examples of Demarcated Positive Materials**



Stickers used to demarcate materials positive for asbestos



Example of demarcated HA (Butvar Bldg)



Example of demarcation on HA-30 (fire doors of Resin Admin)



Example of demarcation on HA-28 (RJ Warehouse)



Example of HA demarcation and stickers (Resin Admin: Lab)

**Appendix 2: Laboratory Analytical Results, Chain of Custody,  
and Field Generated Paperwork**

## ASBESTOS BULK ANALYSIS REPORT

Date: October 17, 2022

Turnstone EH & S, Inc. (Houston)

Report: 5522-4102  
H22-0546 / Eastman Solutia / Resin Admin

This document shall be considered a duly signed original report of the results obtained from the analyses performed. All analyses are done within government guidelines and regulations.

A handwritten signature in black ink, appearing to read 'G.R. Simmons', is positioned above a horizontal line.

Gary R. Simmons  
Laboratory Manager

Lab Comments on Project: N/A

Analytical results and reports are generated by Apex Precision Analytical Services at the request of and for the use of the person or entity (client) named on such report. Result, reports or copies of same will not be released by Apex Precision Analytical Services to any third party without the written request from client. These results only represent the materials submitted. Supporting laboratory documentation is available upon request. This report cannot be used to represent conditions at any other location, date or time and does not imply that this space is free from these or any other contaminants. No responsibility or liability is assumed for the manner in which these results are used or interpreted. This must not be used to claim product endorsement by NVLAP or any government agency of the United States. Apex Precision Analytical Services reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified.



**PLM (Bulk) - Asbestos Analysis Report - Visual ID**  
(EPA Method 600/R-93-116 Visual Area Estimation)

**Turnstone EH & S, Inc. (Houston)**  
1322 Space Park Drive, Suite A155  
Houston, TX 77058  
281-470-0708  
Contact: Luis Hernandez

**Report Number: 5522-4102**  
**Report Date: October 17, 2022**  
**Collection Date: October 11, 2022**  
**Date Received: October 12, 2022**  
**Turn-around time: 72 Hour**

Job ID / Site: H22-0546 / Eastman Solutia / Resin Admin

Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-1	N/A	N/A	N/A	N/A	3	5522-4102-01A	Tan / 12x12 Floor Tile / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: 12X12 Tan speckled floor tile, 1st floor guard shack-lab floor, Resin Admin / Taken from southeast corner of guard shack, south side of building										
						5522-4102-01B	Yellow / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
B-2	N/A	N/A	N/A	N/A	3	5522-4102-02A	Tan / 12x12 Floor Tile / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: 12X12 Tan speckled floor tile, 1st floor guard shack-lab floor, Resin Admin / Taken from northeast corner of south lab room										
						5522-4102-02B	Yellow / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
B-3	N/A	N/A	N/A	N/A	3	5522-4102-03A	Tan / 12x12 Floor Tile / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: 12X12 Tan speckled floor tile, 1st floor guard shack-lab floor, Resin Admin / Taken from southeast corner of north lab room										



**Apex Precision Analytical Services. Inc.**

306 W. Edgewood Dr., Suite D  
Friendswood, TX, 77546

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Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-3	N/A	N/A	N/A	N/A	3	5522-4102-03B	Yellow,Black / Mastic / Fibrous / Homogeneous	None Detected	Cellulose 2%	Binding Material
Location: 12X12 Tan speckled floor tile, 1st floor guard shack-lab floor, Resin Admin / Taken from southeast corner of north lab room										
B-4	N/A	N/A	N/A	N/A	4	5522-4102-04	Grey / Baseboard / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Grey base boarding in guard shack in Resin Admin / Taken from southeast corner of guard shack										
						5522-4102-04B	Yellow / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
B-5	N/A	N/A	N/A	N/A	4	5522-4102-05A	Grey / Baseboard / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Grey base boarding in guard shack in Resin Admin / Taken from northwest corner of guard shack										
						5522-4102-05B	Yellow / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material



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B-6	N/A	N/A	N/A	N/A	4	5522-4102-06A	Grey / Baseboard / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Grey base boarding in guard shack in Resin Admin / Taken from southwest corner of guard shack										
						5522-4102-06B	Yellow / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
B-7	N/A	N/A	N/A	N/A	5	5522-4102-07A	Beige / 12x12 Floor Tile / Fibrous / Homogeneous	None Detected	Cellulose 2%	Binding Material
Location: White 12x12 floor tile through out 1st floor at Resin Admin / Taken from north entrance way toward building										
						5522-4102-07B	Yellow,Black / Mastic / Fibrous / Homogeneous	None Detected	Cellulose 2%	Binding Material
B-8	N/A	N/A	N/A	N/A	5	5522-4102-08A	Beige / 12x12 Floor Tile / Fibrous / Homogeneous	None Detected	Cellulose 2%	Binding Material
Location: White 12x12 floor tile through out 1st floor at Resin Admin / Taken from south entrance towards guard shack										



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Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-8	N/A	N/A	N/A	N/A	5	5522-4102-08B	Yellow,Black / Mastic / Fibrous / Homogeneous	None Detected	Cellulose 2%	Binding Material
Location: White 12x12 floor tile through out 1st floor at Resin Admin / Taken from south entrance towards guard shack										
B-9	N/A	N/A	N/A	N/A	5	5522-4102-09A	Beige / 12x12 Floor Tile / Fibrous / Homogeneous	None Detected	Cellulose 2%	Binding Material
Location: White 12x12 floor tile through out 1st floor at Resin Admin / Taken from south entrance towards guard shack										
						5522-4102-09B	Yellow,Black / Mastic / Fibrous / Homogeneous	None Detected	Cellulose 2%	Binding Material
B-10	N/A	N/A	N/A	N/A	6	5522-4102-10A	Brown / 9x9 Floor Tile / Fibrous / Homogeneous	Chrysotile 2%	None Detected	Binding Material
Location: Light brown 9x9 floor tile throughout 2nd floor Resin Admin and 1st floor / Taken from lunch room, 2nd floor										
						5522-4102-10B	Black / Mastic / Fibrous / Homogeneous	None Detected	Cellulose 2%	Binding Material



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Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-11	N/A	N/A	N/A	N/A	6	5522-4102-11A	Brown / 9x9 Floor Tile / Fibrous / Homogeneous	Chrysotile 2%	None Detected	Binding Material
Location: Light brown 9x9 floor tile throughout 2nd floor Resin Admin and 1st floor / Taken from main hallway, 2nd floor										
						5522-4102-11B	Black / Mastic / Fibrous / Homogeneous	None Detected	Cellulose 2%	Binding Material
B-12	N/A	N/A	N/A	N/A	6	5522-4102-12A	Brown / 9x9 Floor Tile / Fibrous / Homogeneous	Chrysotile 2%	None Detected	Binding Material
Location: Light brown 9x9 floor tile throughout 2nd floor Resin Admin and 1st floor / Taken from vault floor, 1st floor										
						5522-4102-12B	Black / Mastic / Fibrous / Homogeneous	None Detected	Cellulose 2%	Binding Material
B-13	N/A	N/A	N/A	N/A	7	5522-4102-13A	Black / Cove Base / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Black base boarding material throughout 2nd and 1st floor Resin Admin / Taken from 2nd floor break room										



**Apex Precision Analytical Services. Inc.**

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**PLM (Bulk) - Asbestos Analysis Report - Visual ID**  
(EPA Method 600/R-93-116 Visual Area Estimation)

**Turnstone EH & S, Inc. (Houston)**  
1322 Space Park Drive, Suite A155  
Houston, TX 77058  
281-470-0708  
Contact: Luis Hernandez

**Report Number: 5522-4102**  
**Report Date: October 17, 2022**  
**Collection Date: October 11, 2022**  
**Date Received: October 12, 2022**  
**Turn-around time: 72 Hour**

Job ID / Site: H22-0546 / Eastman Solutia / Resin Admin

Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-13	N/A	N/A	N/A	N/A	7	5522-4102-13B	Yellow / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Black base boarding material throughout 2nd and 1st floor Resin Admin / Taken from 2nd floor break room										
B-14	N/A	N/A	N/A	N/A	7	5522-4102-14A	Black / Cove Base / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Black base boarding material throughout 2nd and 1st floor Resin Admin / Taken from northwest corner of 1st floor lab										
						5522-4102-14B	Yellow / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
B-15	N/A	N/A	N/A	N/A	7	5522-4102-15A	Black / Cove Base / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Black base boarding material throughout 2nd and 1st floor Resin Admin / Taken from southeast corner of 1st floor lab										
						5522-4102-15B	Yellow / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material



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Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-16	N/A	N/A	N/A	N/A	8	5522-4102-16A	Tan / 9x9 Floor Tile / Fibrous / Homogeneous	Chrysotile 2%	None Detected	Binding Material
Location: Tan marble 9x9 break room floor tile, 2nd floor, Resin Admin / Taken from north section										
						5522-4102-16B	Black / Mastic / Fibrous / Homogeneous	None Detected	Cellulose 2%	Binding Material
B-17	N/A	N/A	N/A	N/A	8	5522-4102-17A	Tan / 9x9 Floor Tile / Fibrous / Homogeneous	Chrysotile 2%	None Detected	Binding Material
Location: Tan marble 9x9 break room floor tile, 2nd floor, Resin Admin / Taken from central section										
						5522-4102-17B	Black / Mastic / Fibrous / Homogeneous	None Detected	Cellulose 2%	Binding Material
B-18	N/A	N/A	N/A	N/A	8	5522-4102-18A	Tan / 9x9 Floor Tile / Fibrous / Homogeneous	Chrysotile 2%	None Detected	Binding Material
Location: Tan marble 9x9 break room floor tile, 2nd floor, Resin Admin / Taken from south section										



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Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-18	N/A	N/A	N/A	N/A	8	5522-4102-18B	Black / Mastic / Fibrous / Homogeneous	None Detected	Cellulose 2%	Binding Material
Location: Tan marble 9x9 break room floor tile, 2nd floor, Resin Admin / Taken from south section										
B-19	N/A	N/A	N/A	N/A	9	5522-4102-19	White, Yellow / Ceiling Tile / Fibrous / Homogeneous	None Detected	Fibrous Glass 90%	Binding Material
Location: White smooth 12x12 ceiling tile throughout 2nd floor, Resin Admin / Taken from women's locker room										
B-20	N/A	N/A	N/A	N/A	9	5522-4102-20	White, Yellow / Ceiling Tile / Fibrous / Homogeneous	None Detected	Fibrous Glass 90%	Binding Material
Location: White smooth 12x12 ceiling tile throughout 2nd floor, Resin Admin / Taken from north end of hallway										
B-21	N/A	N/A	N/A	N/A	9	5522-4102-21	White, Yellow / Ceiling Tile / Fibrous / Homogeneous	None Detected	Fibrous Glass 90%	Binding Material
Location: White smooth 12x12 ceiling tile throughout 2nd floor, Resin Admin / Taken from south end of hallway										
B-22	N/A	N/A	N/A	N/A	10	5522-4102-22	White, Grey / Ceiling Tile / Fibrous / Homogeneous	None Detected	Cellulose 45% Fibrous Glass 15%	Binding Material
Location: White 2'x3' ceiling tiles through out 1st and 2nd floor Resin Admin / Taken from guard shack ceiling										



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Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-23	N/A	N/A	N/A	N/A	10	5522-4102-23	White,Grey / Ceiling Tile / Fibrous / Homogeneous	None Detected	Cellulose 45% Fibrous Glass 15%	Binding Material
Location: White 2'x3' ceiling tiles through out 1st and 2nd floor Resin Admin / Taken from 1st floor lab ceiling										
B-24	N/A	N/A	N/A	N/A	10	5522-4102-24	White,Grey / Ceiling Tile / Fibrous / Homogeneous	None Detected	Cellulose 45% Fibrous Glass 15%	Binding Material
Location: White 2'x3' ceiling tiles through out 1st and 2nd floor Resin Admin / Taken from 2nd floor lunch room ceiling										
B-25	N/A	N/A	N/A	N/A	11	5522-4102-25	White,Grey / 2x2 Ceiling Tile / Fibrous / Homogeneous	None Detected	Cellulose 45% Fibrous Glass 15%	Binding Material
Location: White smooth 2'x2' vault room ceiling tile, Resin Admin / Taken from northwest corner of ceiling										
B-26	N/A	N/A	N/A	N/A	11	5522-4102-26	White,Grey / 2x2 Ceiling Tile / Fibrous / Homogeneous	None Detected	Cellulose 45% Fibrous Glass 15%	Binding Material
Location: White smooth 2'x2' vault room ceiling tile, Resin Admin / Taken from southwest corner of ceiling										
B-27	N/A	N/A	N/A	N/A	11	5522-4102-27	White,Grey / 2x2 Ceiling Tile / Fibrous / Homogeneous	None Detected	Cellulose 45% Fibrous Glass 15%	Binding Material
Location: White smooth 2'x2' vault room ceiling tile, Resin Admin / Taken from northeast corner of ceiling										



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Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-28	N/A	N/A	N/A	N/A	12	5522-4102-28	White,Grey / 2x2 Ceiling Tile / Fibrous / Homogeneous	None Detected	Cellulose 40% Fibrous Glass 20%	Binding Material
Location: White stippled 2x2 ceiling tile throughout 1st floor hallway, Resin Admin / Taken from north entrance way										
B-29	N/A	N/A	N/A	N/A	12	5522-4102-29	White,Grey / 2x2 Ceiling Tile / Fibrous / Homogeneous	None Detected	Cellulose 40% Fibrous Glass 20%	Binding Material
Location: White stippled 2x2 ceiling tile throughout 1st floor hallway, Resin Admin / Taken from central offices										
B-30	N/A	N/A	N/A	N/A	12	5522-4102-30	White,Grey / 2x2 Ceiling Tile / Fibrous / Homogeneous	None Detected	Cellulose 40% Fibrous Glass 20%	Binding Material
Location: White stippled 2x2 ceiling tile throughout 1st floor hallway, Resin Admin / Taken from south entrance way										
B-31	N/A	N/A	N/A	N/A	13	5522-4102-31	Off White,Brown,White / Wall Covering, Drywall / Fibrous / Homogeneous	None Detected	Cellulose 10% Fibrous Glass 2%	Binding Material
Location: Wall system throughout first floor, Resin Admin / Taken from south entrance to guard shack										
B-32	N/A	N/A	N/A	N/A	13	5522-4102-32A	Off White / Wall Covering / Fibrous / Homogeneous	None Detected	Synthetic 30%	Binding Material
Location: Wall system throughout first floor, Resin Admin / Taken from entrance to library										



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Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-32	N/A	N/A	N/A	N/A	13	5522-4102-32B	Yellow / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Wall system throughout first floor, Resin Admin / Taken from entrance to library										
						5522-4102-32C	Brown,White / Drywall / Fibrous / Homogeneous	None Detected	Cellulose 10%	Binding Material
B-33	N/A	N/A	N/A	N/A	13	5522-4102-33A	Off White / Texture / Fibrous / Homogeneous	Chrysotile 2%	None Detected	Binding Material
Location: Wall system throughout first floor, Resin Admin / Taken from north janitors closet										
						5522-4102-33B	Brown,White / Drywall / Fibrous / Homogeneous	None Detected	Cellulose 10%	Binding Material
B-34	N/A	N/A	N/A	N/A	13	5522-4102-34	Off White,Brown,White / Wall Covering,Drywall / Fibrous / Homogeneous	None Detected	Cellulose 10%	Binding Material
Location: Wall system throughout first floor, Resin Admin / Taken from north lab, central partition										



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Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-35	N/A	N/A	N/A	N/A	13	5522-4102-35A	Off White / Wall Covering / Fibrous / Homogeneous	None Detected	Synthetic 30%	Binding Material
Location: Wall system throughout first floor, Resin Admin / Taken from north end door to guard shack										
						5522-4102-35B	Yellow / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
						5522-4102-35C	White / Compound / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
						5522-4102-35D	Brown,White / Drywall / Fibrous / Homogeneous	None Detected	Cellulose 10%	Binding Material
B-36	N/A	N/A	N/A	N/A	13	5522-4102-36A	White / Texture / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Wall system throughout first floor, Resin Admin / Taken from north wall of guard shack										



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Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-36	N/A	N/A	N/A	N/A	13	5522-4102-36B	Brown,White / Drywall / Fibrous / Homogeneous	None Detected	Cellulose 10%	Binding Material
Location: Wall system throughout first floor, Resin Admin / Taken from north wall of guard shack										
B-37	N/A	N/A	N/A	N/A	13	5522-4102-37A	White / Texture / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Wall system throughout first floor, Resin Admin / Taken from south wall of guard shack										
						5522-4102-37B	Brown,White / Drywall / Fibrous / Homogeneous	None Detected	Cellulose 10%	Binding Material
B-38	N/A	N/A	N/A	N/A	14	5522-4102-38	Light Tan,Brown / Material / Fibrous / Homogeneous	None Detected	Cellulose 70%	Binding Material
Location: White wrap over insulation over 2" line, central east north lab, resins admin / Taken from vertical pipe table level										
B-39	N/A	N/A	N/A	N/A	14	5522-4102-39	Light Tan,Brown / Material / Fibrous / Homogeneous	None Detected	Cellulose 70%	Binding Material
Location: White wrap over insulation over 2" line, central east north lab, resins admin / Taken from vertical pipe, 3ft elevation										



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B-40	N/A	N/A	N/A	N/A	14	5522-4102-40	Light Tan,Brown / Material / Fibrous / Homogeneous	None Detected	Cellulose 70%	Binding Material
Location: White wrap over insulation over 2" line, central east north lab, resins admin / Taken from vertical pipe, 5ft elevation										
B-41	N/A	N/A	N/A	N/A	15	5522-4102-41A	Light Tan / Paint,Texture / Fibrous / Homogeneous	Chrysotile <1%	None Detected	Binding Material
Location: White wall system throughout 2 <sup>nd</sup> floor / Taken from northwest wall, lunchroom										
						5522-4102-41B	Brown,White / Drywall / Fibrous / Homogeneous	None Detected	Cellulose 10%	Binding Material
B-42	N/A	N/A	N/A	N/A	15	5522-4102-42A	White / Texture / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: White wall system throughout 2 <sup>nd</sup> floor / Taken from southwest wall, lunchroom										
						5522-4102-42B	Off White / Joint Tape / Fibrous / Homogeneous	None Detected	Cellulose 95%	Binding Material



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B-42	N/A	N/A	N/A	N/A	15	5522-4102-42C	White / Joint Compound / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: White wall system throughout 2 <sup>nd</sup> floor / Taken from southwest wall, lunchroom										
						5522-4102-42D	Brown, White / Drywall / Fibrous / Homogeneous	None Detected	Cellulose 10%	Binding Material
B-43	N/A	N/A	N/A	N/A	15	5522-4102-43A	White / Texture / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: White wall system throughout 2 <sup>nd</sup> floor / Taken from central hallway										
						5522-4102-43B	Off White / Paint / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
						5522-4102-43C	Off White / Texture / Fibrous / Homogeneous	Chrysotile 2%	None Detected	Binding Material



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B-43	N/A	N/A	N/A	N/A	15	5522-4102-43D	Off White / Joint Tape / Fibrous / Homogeneous	None Detected	Cellulose 95%	Binding Material
Location: White wall system throughout 2 <sup>nd</sup> floor / Taken from central hallway										
						5522-4102-43E	Off White / Joint Compound / Fibrous / Homogeneous	Chrysotile 2%	None Detected	Binding Material
						5522-4102-43F	Brown,White / Drywall / Fibrous / Homogeneous	None Detected	Cellulose 10%	Binding Material
B-44	N/A	N/A	N/A	N/A	15	5522-4102-44A	Off White / Texture / Fibrous / Homogeneous	Chrysotile 2%	None Detected	Binding Material
Location: White wall system throughout 2 <sup>nd</sup> floor / Taken from conference room										
						5522-4102-44B	Brown,White / Drywall / Fibrous / Homogeneous	None Detected	Cellulose 10%	Binding Material



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B-45	N/A	N/A	N/A	N/A	15	5522-4102-45A	Off White / Texture / Fibrous / Homogeneous	Chrysotile 2%	None Detected	Binding Material
Location: White wall system throughout 2 <sup>nd</sup> floor / Taken from northeast break room										
						5522-4102-45B	Brown, White / Drywall / Fibrous / Homogeneous	None Detected	Cellulose 10%	Binding Material
B-46	N/A	N/A	N/A	N/A	16	5522-4102-46A	Off White / Wrap / Fibrous / Homogeneous	None Detected	Cellulose 95%	Binding Material
Location: 1" Line at floor in 2nd floor HVAC, Resin Admin / Taken from north corner of wall										
						5522-4102-46B	White / Insulation / Fibrous / Homogeneous	Cellulose 10% Amosite 10% Crocidolite 5%	None Detected	Binding Material
B-47	N/A	N/A	N/A	N/A	16	5522-4102-47A	Off White / Wrap / Fibrous / Homogeneous	None Detected	Cellulose 95%	Binding Material
Location: 1" Line at floor in 2nd floor HVAC, Resin Admin / Taken from central run along wall										



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B-47	N/A	N/A	N/A	N/A	16	5522-4102-47B	White / Insulation / Fibrous / Homogeneous	Cellulose 10% Amosite 10% Crocidolite 5%	None Detected	Binding Material
Location: 1" Line at floor in 2nd floor HVAC, Resin Admin / Taken from central run along wall										
B-48	N/A	N/A	N/A	N/A	16	5522-4102-48A	Off White / Wrap / Fibrous / Homogeneous	None Detected	Cellulose 95%	Binding Material
Location: 1" Line at floor in 2nd floor HVAC, Resin Admin / Taken from south corner of wall										
						5522-4102-48B	White / Insulation / Fibrous / Homogeneous	Cellulose 10% Amosite 10% Crocidolite 5%	None Detected	Binding Material
B-49	N/A	N/A	N/A	N/A	17	5522-4102-49	Black / Lab Table Top / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Black table top, north lab first floor, Resin Admin and vent hood / Taken from north lab table top										
B-50	N/A	N/A	N/A	N/A	17	5522-4102-50	Black / Lab Table Top / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Black table top, north lab first floor, Resin Admin and vent hood / Taken from north lab table top										



**PLM (Bulk) - Asbestos Analysis Report - Visual ID**  
(EPA Method 600/R-93-116 Visual Area Estimation)

**Turnstone EH & S, Inc. (Houston)**  
1322 Space Park Drive, Suite A155  
Houston, TX 77058  
281-470-0708  
Contact: Luis Hernandez

**Report Number: 5522-4102**  
**Report Date: October 17, 2022**  
**Collection Date: October 11, 2022**  
**Date Received: October 12, 2022**  
**Turn-around time: 72 Hour**

Job ID / Site: H22-0546 / Eastman Solutia / Resin Admin

Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-51	N/A	N/A	N/A	N/A	17	5522-4102-51	Black / Lab Table Top / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Black table top, north lab first floor, Resin Admin and vent hood / Taken from north lab vent hood										
B-52	N/A	N/A	N/A	N/A	18	5522-4102-52	Off White,Grey / Brick / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: White interior brick throughout Resin Admin / Taken from northeast side of building										
B-53	N/A	N/A	N/A	N/A	18	5522-4102-53	Off White,Grey / Brick / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: White interior brick throughout Resin Admin / Taken from southeast side of building										
B-54	N/A	N/A	N/A	N/A	18	5522-4102-54	Off White,Grey / Brick / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: White interior brick throughout Resin Admin / Taken from southwest side of building										
B-55	N/A	N/A	N/A	N/A	19	5522-4102-55	Red / Brick / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Red exterior brick throughout Resin Admin / Taken from northeast side of building										



**PLM (Bulk) - Asbestos Analysis Report - Visual ID**  
 (EPA Method 600/R-93-116 Visual Area Estimation)

**Turnstone EH & S, Inc. (Houston)**  
 1322 Space Park Drive, Suite A155  
 Houston, TX 77058  
 281-470-0708  
 Contact: Luis Hernandez

**Report Number: 5522-4102**  
**Report Date: October 17, 2022**  
**Collection Date: October 11, 2022**  
**Date Received: October 12, 2022**  
**Turn-around time: 72 Hour**

Job ID / Site: H22-0546 / Eastman Solutia / Resin Admin

Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-56	N/A	N/A	N/A	N/A	19	5522-4102-56	Red / Brick / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Red exterior brick throughout Resin Admin / Taken from southeast side of building										
B-57	N/A	N/A	N/A	N/A	19	5522-4102-57	Red / Brick / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Red exterior brick throughout Resin Admin / Taken from southwest side of building										

Turnstone  
EH&S, Inc.  
Chain of  
Custody



**TURNSTONE**  
ENVIRONMENTAL, HEALTH AND SAFETY, INC.

1322 Space Park Dr, Suite A-155  
Houston, Texas 77058

5522-4102

Project # / Name :		H22-0546 - Eastman Selectia Resin Admin.		
<b>TURNAROUND TIME</b> <i>Slow</i>				
<input type="checkbox"/> Same Day		<input type="checkbox"/> 24 Hours	<input checked="" type="checkbox"/> Standard [3 Days]	<input type="checkbox"/> Apply Open Lab Fees
<small>(NOTE: All Turnaround times are based on the date / time the sample is received by the Laboratory)</small>				
Sample Date	Number of Samples	Type of Sample	Contact Person:	Phone #:
10-11-22	57	Belk	Luis Hernandez	832-946-3602
<b>Special Instructions</b>				
Email results to <a href="mailto:luis.hernandez@turnstoneehs.com">luis.hernandez@turnstoneehs.com</a> & <a href="mailto:michael.ortiz@turnstoneehs.com">michael.ortiz@turnstoneehs.com</a> / write sample description & location on sample results				

Sample Number	Sample Description / Location	Analyte	Time (min.)	Volume L or ml
B-1	See Attached Data Sheet	Asbestos	/	
↓				
B-57				

Date/ Time:	Sampled By:	Relinquished By:	Accepted by:
	John Powers	John Powers	Camille Robin
		<i>[Signature]</i>	10/12/22 1020

**\*\* LAB USE ONLY \*\***

Lab Ref No: \_\_\_\_\_

Analyst: \_\_\_\_\_

## ASBESTOS BULK ANALYSIS REPORT

Date: October 17, 2022

Turnstone EH & S, Inc. (Houston)

Report: 5522-4101  
H22-0546 / Eastman Solutia, Trenton, MI / RJ  
Warehouse

This document shall be considered a duly signed original report of the results obtained from the analyses performed. All analyses are done within government guidelines and regulations.

A handwritten signature in black ink, appearing to read 'G.R. Simmons', is positioned above a horizontal line.

Gary R. Simmons  
Laboratory Manager

Lab Comments on Project: N/A

Analytical results and reports are generated by Apex Precision Analytical Services at the request of and for the use of the person or entity (client) named on such report. Result, reports or copies of same will not be released by Apex Precision Analytical Services to any third party without the written request from client. These results only represent the materials submitted. Supporting laboratory documentation is available upon request. This report cannot be used to represent conditions at any other location, date or time and does not imply that this space is free from these or any other contaminants. No responsibility or liability is assumed for the manner in which these results are used or interpreted. This must not be used to claim product endorsement by NVLAP or any government agency of the United States. Apex Precision Analytical Services reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified.



**PLM (Bulk) - Asbestos Analysis Report - Visual ID**  
(EPA Method 600/R-93-116 Visual Area Estimation)

**Turnstone EH & S, Inc. (Houston)**  
1322 Space Park Drive, Suite A155  
Houston, TX 77058  
281-470-0708  
Contact: Luis Hernandez

**Report Number: 5522-4101**  
**Report Date: October 17, 2022**  
**Collection Date: October 11, 2022**  
**Date Received: October 12, 2022**  
**Turn-around time: 72 Hour**

Job ID / Site: H22-0546 / Eastman Solutia, Trenton, MI / RJ Warehouse

Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-58	N/A	N/A	N/A	N/A	20	5522-4101-01	Grey,Off-White / Material / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Grey brick & mortar, exterior, RJ warehouse / Taken from central east side wall										
B-59	N/A	N/A	N/A	N/A	20	5522-4101-02	Grey,Off-White / Material / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Grey brick & mortar, exterior, RJ warehouse / Taken from central east side wall										
B-60	N/A	N/A	N/A	N/A	20	5522-4101-03	Grey,Off-White / Material / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Grey brick & mortar, exterior, RJ warehouse / Taken from central east side wall										
B-61	N/A	N/A	N/A	N/A	21	5522-4101-04	Yellow / Insulation / Fibrous / Homogeneous	None Detected	Fibrous Glass 95%	Binding Material
Location: Insulation behind wall panels of interior and ceiling, RJ Warehouse / Taken from north side wall interior										
B-62	N/A	N/A	N/A	N/A	21	5522-4101-05	Yellow / Insulation / Fibrous / Homogeneous	None Detected	Fibrous Glass 95%	Binding Material
Location: Insulation behind wall panels of interior and ceiling, RJ Warehouse / Taken from south side wall interior										



**PLM (Bulk) - Asbestos Analysis Report - Visual ID**  
(EPA Method 600/R-93-116 Visual Area Estimation)

**Turnstone EH & S, Inc. (Houston)**  
1322 Space Park Drive, Suite A155  
Houston, TX 77058  
281-470-0708  
Contact: Luis Hernandez

**Report Number: 5522-4101**  
**Report Date: October 17, 2022**  
**Collection Date: October 11, 2022**  
**Date Received: October 12, 2022**  
**Turn-around time: 72 Hour**

Job ID / Site: H22-0546 / Eastman Solutia, Trenton, MI / RJ Warehouse

Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-63	N/A	N/A	N/A	N/A	21	5522-4101-06	Yellow / Foam / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Insulation behind wall panels of interior and ceiling, RJ Warehouse / Taken from interior ceiling										
B-64	N/A	N/A	N/A	N/A	22	5522-4101-07	Yellow / Insulation / Fibrous / Homogeneous	None Detected	Fibrous Glass 95%	Binding Material
Location: 1" Line in bathroom in RJ Warehouse / Taken from line, southwest corner										
B-65	N/A	N/A	N/A	N/A	22	5522-4101-08A	White,Silver / Wrap / Fibrous / Homogeneous	None Detected	Cellulose 30% Fibrous Glass 5%	Binding Material
Location: 1" Line in bathroom in RJ Warehouse / Taken from line, southwest corner										
						5522-4101-08B	Yellow / Insulation / Fibrous / Homogeneous	None Detected	Fibrous Glass 95%	Binding Material
Location: 1" Line in bathroom in RJ Warehouse / Taken from line, southwest corner										
B-66	N/A	N/A	N/A	N/A	22	5522-4101-09A	White,Silver / Wrap / Fibrous / Homogeneous	None Detected	Cellulose 30% Fibrous Glass 5%	Binding Material
Location: 1" Line in bathroom in RJ Warehouse / Taken from line, southwest corner										



**PLM (Bulk) - Asbestos Analysis Report - Visual ID**  
 (EPA Method 600/R-93-116 Visual Area Estimation)

**Turnstone EH & S, Inc. (Houston)**  
 1322 Space Park Drive, Suite A155  
 Houston, TX 77058  
 281-470-0708  
 Contact: Luis Hernandez

**Report Number: 5522-4101**  
**Report Date: October 17, 2022**  
**Collection Date: October 11, 2022**  
**Date Received: October 12, 2022**  
**Turn-around time: 72 Hour**

Job ID / Site: H22-0546 / Eastman Solutia, Trenton, MI / RJ Warehouse

Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-66	N/A	N/A	N/A	N/A	22	5522-4101-09B	Yellow / Insulation / Fibrous / Homogeneous	None Detected	Fibrous Glass 95%	Binding Material
Location: 1" Line in bathroom in RJ Warehouse / Taken from line, southwest corner										
B-67	N/A	N/A	N/A	N/A	23	5522-4101-10A	Light Tan / 12x12 Floor Tile / Fibrous / Homogeneous	Chrysotile 2%	None Detected	Binding Material
Location: Cream 12x12 floor tile, northwest office of RJ Warehouse / Taken from northwest corner of office										
						5522-4101-10B	Yellow / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
B-68	N/A	N/A	N/A	N/A	23	5522-4101-11A	Light Tan / 12x12 Floor Tile / Fibrous / Homogeneous	Chrysotile 2%	None Detected	Binding Material
Location: Cream 12x12 floor tile, northwest office of RJ Warehouse / Taken from southwest corner of office										
						5522-4101-11B	Yellow / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material



**PLM (Bulk) - Asbestos Analysis Report - Visual ID**  
(EPA Method 600/R-93-116 Visual Area Estimation)

**Turnstone EH & S, Inc. (Houston)**  
1322 Space Park Drive, Suite A155  
Houston, TX 77058  
281-470-0708  
Contact: Luis Hernandez

**Report Number: 5522-4101**  
**Report Date: October 17, 2022**  
**Collection Date: October 11, 2022**  
**Date Received: October 12, 2022**  
**Turn-around time: 72 Hour**

Job ID / Site: H22-0546 / Eastman Solutia, Trenton, MI / RJ Warehouse

Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-69	N/A	N/A	N/A	N/A	23	5522-4101-12A	Light Tan / 12x12 Floor Tile / Fibrous / Homogeneous	Chrysotile 2%	None Detected	Binding Material
Location: Cream 12x12 floor tile, northwest office of RJ Warehouse / Taken from central of office										
						5522-4101-12B	Yellow / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
B-70	N/A	N/A	N/A	N/A	24	5522-4101-13A	Brown / Baseboard / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Dark brown baseboards, northwest office of RJ Warehouse / Taken from northwest wall of office										
						5522-4101-13B	Brown / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
B-71	N/A	N/A	N/A	N/A	24	5522-4101-14A	Brown / Baseboard / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Dark brown baseboards, northwest office of RJ Warehouse / Taken from southwest wall of office										



**PLM (Bulk) - Asbestos Analysis Report - Visual ID**  
(EPA Method 600/R-93-116 Visual Area Estimation)

**Turnstone EH & S, Inc. (Houston)**  
1322 Space Park Drive, Suite A155  
Houston, TX 77058  
281-470-0708  
Contact: Luis Hernandez

**Report Number: 5522-4101**  
**Report Date: October 17, 2022**  
**Collection Date: October 11, 2022**  
**Date Received: October 12, 2022**  
**Turn-around time: 72 Hour**

Job ID / Site: H22-0546 / Eastman Solutia, Trenton, MI / RJ Warehouse

Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-71	N/A	N/A	N/A	N/A	24	5522-4101-14B	Brown / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Dark brown baseboards, northwest office of RJ Warehouse / Taken from southwest wall of office										
B-72	N/A	N/A	N/A	N/A	24	5522-4101-15A	Brown / Baseboard / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Dark brown baseboards, northwest office of RJ Warehouse / Taken from east wall of office										
						5522-4101-15B	Brown / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
B-73	N/A	N/A	N/A	N/A	25	5522-4101-16	White,Grey / 2x2 Ceiling Tile / Fibrous / Homogeneous	None Detected	Cellulose 45% Fibrous Glass 15%	Binding Material
Location: Ceiling tile, 2'x2', northwest office of RJ Warehouse / Taken from ceiling tile at northwest corner										
B-74	N/A	N/A	N/A	N/A	25	5522-4101-17	White,Grey / 2x2 Ceiling Tile / Fibrous / Homogeneous	None Detected	Cellulose 45% Fibrous Glass 15%	Binding Material
Location: Ceiling tile, 2'x2', northwest office of RJ Warehouse / Taken from ceiling tile at center of room										



**Apex Precision Analytical Services. Inc.**

306 W. Edgewood Dr., Suite D  
Friendswood, TX, 77546

**PLM (Bulk) - Asbestos Analysis Report - Visual ID**  
(EPA Method 600/R-93-116 Visual Area Estimation)

Turnstone EH & S, Inc. (Houston)  
1322 Space Park Drive, Suite A155  
Houston, TX 77058  
281-470-0708  
Contact: Luis Hernandez

Report Number: 5522-4101  
Report Date: October 17, 2022  
Collection Date: October 11, 2022  
Date Received: October 12, 2022  
Turn-around time: 72 Hour

Job ID / Site: H22-0546 / Eastman Solutia, Trenton, MI / RJ Warehouse

Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-75	N/A	N/A	N/A	N/A	25	5522-4101-18	White,Grey / 2x2 Ceiling Tile / Fibrous / Homogeneous	None Detected	Cellulose 45% Fibrous Glass 15%	Binding Material
Location: Ceiling tile, 2'x2', northwest office of RJ Warehouse / Taken from ceiling tile at southeast corner of room										
B-76	N/A	N/A	N/A	N/A	26	5522-4101-19	Brown,White / Wall Board / Fibrous / Homogeneous	None Detected	Cellulose 10%	Binding Material
Location: Wall board, northwest office, RJ Warehouse / Taken from south wall										
B-77	N/A	N/A	N/A	N/A	26	5522-4101-20	Off White,Brown / Wall Board / Fibrous / Homogeneous	None Detected	Cellulose 85%	Binding Material
Location: Wall board, northwest office, RJ Warehouse / Taken from east wall										
B-78	N/A	N/A	N/A	N/A	26	5522-4101-21A	Off White,Brown / Wall Board / Fibrous / Homogeneous	None Detected	Cellulose 85%	Binding Material
Location: Wall board, northwest office, RJ Warehouse / Taken from west wall										
						5522-4101-21B	Brown,White / Wall Board / Fibrous / Homogeneous	None Detected	Cellulose 10%	Binding Material



**PLM (Bulk) - Asbestos Analysis Report - Visual ID**  
(EPA Method 600/R-93-116 Visual Area Estimation)

**Turnstone EH & S, Inc. (Houston)**  
1322 Space Park Drive, Suite A155  
Houston, TX 77058  
281-470-0708  
Contact: Luis Hernandez

**Report Number: 5522-4101**  
**Report Date: October 17, 2022**  
**Collection Date: October 11, 2022**  
**Date Received: October 12, 2022**  
**Turn-around time: 72 Hour**

Job ID / Site: H22-0546 / Eastman Solutia, Trenton, MI / RJ Warehouse

Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-79	N/A	N/A	N/A	N/A	27	5522-4101-22A	White,Silver / Wrap / Fibrous / Homogeneous	None Detected	Cellulose 30% Fibrous Glass 5%	Binding Material
Location: Yellow insulation, on north side of RJ Warehouse 15ft elevation, various lines / Taken from west lines										
						5522-4101-22B	Yellow / Insulation / Fibrous / Homogeneous	None Detected	Fibrous Glass 95%	Binding Material
Location: Yellow insulation, on north side of RJ Warehouse 15ft elevation, various lines / Taken from west lines										
B-80	N/A	N/A	N/A	N/A	27	5522-4101-23A	White,Silver / Wrap / Fibrous / Homogeneous	None Detected	Fibrous Glass 5%	Binding Material
Location: Yellow insulation, on north side of RJ Warehouse 15ft elevation, various lines / Taken from central lines										
						5522-4101-23B	Brown / Insulation / Fibrous / Homogeneous	None Detected	Fibrous Glass 95%	Binding Material
Location: Yellow insulation, on north side of RJ Warehouse 15ft elevation, various lines / Taken from central lines										
B-81	N/A	N/A	N/A	N/A	27	5522-4101-24A	White,Silver / Wrap / Fibrous / Homogeneous	None Detected	Fibrous Glass 5%	Binding Material
Location: Yellow insulation, on north side of RJ Warehouse 15ft elevation, various lines / Taken from east lines										



**Apex Precision Analytical Services. Inc.**

306 W. Edgewood Dr., Suite D  
Friendswood, TX, 77546

**PLM (Bulk) - Asbestos Analysis Report - Visual ID**  
(EPA Method 600/R-93-116 Visual Area Estimation)

**Turnstone EH & S, Inc. (Houston)**  
1322 Space Park Drive, Suite A155  
Houston, TX 77058  
281-470-0708  
Contact: Luis Hernandez

**Report Number: 5522-4101**  
**Report Date: October 17, 2022**  
**Collection Date: October 11, 2022**  
**Date Received: October 12, 2022**  
**Turn-around time: 72 Hour**

Job ID / Site: H22-0546 / Eastman Solutia, Trenton, MI / RJ Warehouse

Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-81	N/A	N/A	N/A	N/A	27	5522-4101-24B	Brown / Insulation / Fibrous / Homogeneous	None Detected	Fibrous Glass 95%	Binding Material
Location: Yellow insulation, on north side of RJ Warehouse 15ft elevation, various lines / Taken from east lines										
B-82	N/A	N/A	N/A	N/A	28	5522-4101-25	Off White / Caulking / Fibrous / Homogeneous	Chrysotile 3%	None Detected	Binding Material
Location: Grey caulking on vent & door seams of RJ Warehouse / Taken from vent, south of door to switch gear										
B-83	N/A	N/A	N/A	N/A	28	5522-4101-26	Off White / Caulking / Fibrous / Homogeneous	Chrysotile 3%	None Detected	Binding Material
Location: Grey caulking on vent & door seams of RJ Warehouse / Taken from door seam, west most door on east side										
B-84	N/A	N/A	N/A	N/A	28	5522-4101-27	Off White / Caulking / Fibrous / Homogeneous	Chrysotile 3%	None Detected	Binding Material
Location: Grey caulking on vent & door seams of RJ Warehouse / Taken from door seam south most door on east side										



5522-4101

<b>Project # / Name :</b>		H22-0546 - Eastman Solata - Trenton MI - RJ Wane House		
<b>TURNAROUND TIME</b>				
<input type="checkbox"/> Same Day		<input type="checkbox"/> 24 Hours	<input checked="" type="checkbox"/> Standard [3 Days] <i>Slow</i>	<input type="checkbox"/> Apply Open Lab Fees
(NOTE: All Turnaround times are based on the date / time the sample is received by the Laboratory)				
<b>Sample Date</b>	<b>Number of Samples</b>	<b>Type of Sample</b>	<b>Contact Person:</b>	<b>Phone #:</b>
10.11.22	27	Blk	Luis Hernandez	832-946-3602
<b>Special Instructions</b>				
Email results to <a href="mailto:luis.hernandez@turnstoneehs.com">luis.hernandez@turnstoneehs.com</a> & <a href="mailto:michael.ortiz@turnstoneehs.com">michael.ortiz@turnstoneehs.com</a> / write sample description & location on sample results				

Sample Number	Sample Description / Location	Analyte	Time (min.)	Volume L or ml
B-58	See Attached Data Sheet	Asbestos		
↓		↓		
B-84				

<b>Date/ Time:</b>	<b>Sampled By:</b>	<b>Relinquished By:</b>	<b>Accepted by:</b>
	John Powers Kyle B. In	Juanita	Aracela Rabin 10/12/22 1020

## ASBESTOS BULK ANALYSIS REPORT

Date: October 19, 2022

Turnstone EH & S, Inc. (Houston)

Report: 5522-4157  
H22-0546 / Eastman Solutia-Trenton, MI /  
Phos Service Bldg

This document shall be considered a duly signed original report of the results obtained from the analyses performed. All analyses are done within government guidelines and regulations.

A handwritten signature in black ink, appearing to read 'G.R. Simmons', is positioned above a horizontal line.

Gary R. Simmons  
Laboratory Manager

Lab Comments on Project: N/A

Analytical results and reports are generated by Apex Precision Analytical Services at the request of and for the use of the person or entity (client) named on such report. Result, reports or copies of same will not be released by Apex Precision Analytical Services to any third party without the written request from client. These results only represent the materials submitted. Supporting laboratory documentation is available upon request. This report cannot be used to represent conditions at any other location, date or time and does not imply that this space is free from these or any other contaminants. No responsibility or liability is assumed for the manner in which these results are used or interpreted. This must not be used to claim product endorsement by NVLAP or any government agency of the United States. Apex Precision Analytical Services reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified.



**PLM (Bulk) - Asbestos Analysis Report - Visual ID**  
(EPA Method 600/R-93-116 Visual Area Estimation)

**Turnstone EH & S, Inc. (Houston)**  
1322 Space Park Drive, Suite A155  
Houston, TX 77058  
281-470-0708  
Contact: Luis Hernandez

**Report Number: 5522-4157**  
**Report Date: October 19, 2022**  
**Collection Date: October 12, 2022**  
**Date Received: October 14, 2022**  
**Turn-around time: 72 Hour**

Job ID / Site: H22-0546 / Eastman Solutia-Trenton, MI / Phos Service Bldg

Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-85	N/A	N/A	N/A	N/A	30	5522-4157-01	Off White / Material / Fibrous / Homogeneous	Chrysotile 70%	Cellulose 5%	Binding Material
Location: Fire door throughout resin admin / Taken from fire door, 2 <sup>nd</sup> floor, door to lunchroom										
B-86	N/A	N/A	N/A	N/A	30	5522-4157-02	Off White / Material / Fibrous / Homogeneous	Chrysotile 70%	Cellulose 5%	Binding Material
Location: Fire door throughout resin admin / Taken from fire door, 2 <sup>nd</sup> floor, door to lunchroom										
B-87	N/A	N/A	N/A	N/A	30	5522-4157-03	Off White / Material / Fibrous / Homogeneous	Chrysotile 70%	Cellulose 5%	Binding Material
Location: Fire door throughout resin admin / Taken from fire door, 2 <sup>nd</sup> floor, door to lunchroom										
B-88	N/A	N/A	N/A	N/A	31	5522-4157-04	White / Material / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Off-white caulking of exterior windows and doorways, resin admin / Taken from central lunchroom window										
B-89	N/A	N/A	N/A	N/A	31	5522-4157-05	White / Material / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Off-white caulking of exterior windows and doorways, resin admin / Taken from central lunchroom window										



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**Turnstone EH & S, Inc. (Houston)**  
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Houston, TX 77058  
281-470-0708  
Contact: Luis Hernandez

**Report Number: 5522-4157**  
**Report Date: October 19, 2022**  
**Collection Date: October 12, 2022**  
**Date Received: October 14, 2022**  
**Turn-around time: 72 Hour**

Job ID / Site: H22-0546 / Eastman Solutia-Trenton, MI / Phos Service Bldg

Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-90	N/A	N/A	N/A	N/A	31	5522-4157-06	White / Material / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Off-white caulking of exterior windows and doorways, resin admin / Taken from central lunchroom window										
B-91	N/A	N/A	N/A	N/A	32	5522-4157-07A	Tan,Grey / Floor Tile / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Phos service building, light grey floor tile, guard shack / Taken from northwest corner floor of guard shack										
						5522-4157-07B	Yellow,Black / Mastic / Fibrous / Homogeneous	None Detected	Cellulose 2%	Binding Material
B-92	N/A	N/A	N/A	N/A	32	5522-4157-08A	Tan,Grey / Floor Tile / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Phos service building, light grey floor tile, guard shack / Taken from southwest corner floor of guard shack										
						5522-4157-08B	Yellow,Black / Mastic / Fibrous / Homogeneous	None Detected	Cellulose 2%	Binding Material



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Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-93	N/A	N/A	N/A	N/A	32	5522-4157-09	Tan,Grey / Floor Tile / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Phos service building, light grey floor tile, guard shack / Taken from central floor of guard shack										
B-94	N/A	N/A	N/A	N/A	33	5522-4157-10	White,Grey / Window Caulking / Fibrous / Homogeneous	Chrysotile 2%	None Detected	Binding Material
Location: Window caulking on old style windows, west side of building / Taken from southern most window										
B-95	N/A	N/A	N/A	N/A	33	5522-4157-11	White,Grey / Window Caulking / Fibrous / Homogeneous	Chrysotile 2%	None Detected	Binding Material
Location: Window caulking on old style windows, west side of building / Taken from northern most window										
B-96	N/A	N/A	N/A	N/A	33	5522-4157-12	White,Grey / Window Caulking / Fibrous / Homogeneous	Chrysotile 2%	None Detected	Binding Material
Location: Window caulking on old style windows, west side of building / Taken from central window										
B-97	N/A	N/A	N/A	N/A	34	5522-4157-13	Black / Mastic / Fibrous / Homogeneous	None Detected	Cellulose 5%	Binding Material
Location: Black mastic on HVAC seams on roof / Taken from central section of HVAC north area										



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Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-98	N/A	N/A	N/A	N/A	34	5522-4157-14	Black / Mastic / Fibrous / Homogeneous	None Detected	Cellulose 5%	Binding Material
Location: Black mastic on HVAC seams on roof / Taken from central section of HVAC south area										
B-99	N/A	N/A	N/A	N/A	34	5522-4157-15	Black / Mastic / Fibrous / Homogeneous	None Detected	Cellulose 5%	Binding Material
Location: Black mastic on HVAC seams on roof / Taken from central section of HVAC west area										
B-100	N/A	N/A	N/A	N/A	35	5522-4157-16A	Black / Roofing Material / Fibrous / Homogeneous	None Detected	Fibrous Glass 10%	Binding Material
Location: Black roofing material on building / Taken from northern area of roof										
						5522-4157-16B	Black / Roofing Material / Fibrous / Homogeneous	None Detected	Fibrous Glass 10%	Binding Material
B-101	N/A	N/A	N/A	N/A	35	5522-4157-17A	Black / Roofing Material / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Black roofing material on building / Taken from western area of roof										



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B-101	N/A	N/A	N/A	N/A	35	5522-4157-17B	Black / Roofing Material / Fibrous / Homogeneous	None Detected	Fibrous Glass 10%	Binding Material
Location: Black roofing material on building / Taken from western area of roof										
B-102	N/A	N/A	N/A	N/A	35	5522-4157-18A	Black / Roofing Material / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Black roofing material on building / Taken from eastern area of roof										
						5522-4157-18B	Black / Roofing Material / Fibrous / Homogeneous	None Detected	Fibrous Glass 10%	Binding Material
B-103	N/A	N/A	N/A	N/A	36	5522-4157-19A	Red / Brick / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Red brick and mortar, exterior, Phos service building / Taken from eastern wall										
						5522-4157-19B	Grey / Mortar / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material



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B-104	N/A	N/A	N/A	N/A	36	5522-4157-20A	Red / Brick / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Red brick and mortar, exterior, Phos service building / Taken from western wall										
						5522-4157-20B	Grey / Mortar / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Red brick and mortar, exterior, Phos service building / Taken from northern wall										
B-105	N/A	N/A	N/A	N/A	36	5522-4157-21A	Red / Brick / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Red brick and mortar, exterior, Phos service building / Taken from northern wall										
						5522-4157-21B	Grey / Mortar / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
B-106	N/A	N/A	N/A	N/A	37	5522-4157-22	White / Insulation / Fibrous / Homogeneous	Chrysotile 15% Amosite 15%	None Detected	Binding Material
Location: Grey wrapped and labeled 1-2" piping in crawl space of basement / Taken from eastern crawl space pipe										



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Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-107	N/A	N/A	N/A	N/A	37	5522-4157-23	White / Insulation / Fibrous / Homogeneous	Chrysotile 15% Amosite 15%	None Detected	Binding Material
Location: Grey wrapped and labeled 1-2" piping in crawl space of basement / Taken from eastern crawl space pipe										
B-108	N/A	N/A	N/A	N/A	37	5522-4157-24	White / Insulation / Fibrous / Homogeneous	Chrysotile 15% Amosite 15%	None Detected	Binding Material
Location: Grey wrapped and labeled 1-2" piping in crawl space of basement / Taken from southern crawl space pipe										
B-109	N/A	N/A	N/A	N/A	38	5522-4157-25A	Light Green / 9x9 Floor Tile / Fibrous / Homogeneous	Chrysotile 2%	None Detected	Binding Material
Location: White 9x9 floor tile in basement / Taken from northwest corner										
						5522-4157-25B	Yellow,White / Mastic,Material / Fibrous / Homogeneous	None Detected	Cellulose 2%	Binding Material
B-110	N/A	N/A	N/A	N/A	38	5522-4157-26A	Light Green / 9x9 Floor Tile / Fibrous / Homogeneous	Chrysotile 2%	None Detected	Binding Material
Location: White 9x9 floor tile in basement / Taken from eastern section										



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B-110	N/A	N/A	N/A	N/A	38	5522-4157-26B	Yellow,White / Mastic,Material / Fibrous / Homogeneous	None Detected	Cellulose 2%	Binding Material
Location: White 9x9 floor tile in basement / Taken from eastern section										
B-111	N/A	N/A	N/A	N/A	38	5522-4157-27A	Light Green / 9x9 Floor Tile / Fibrous / Homogeneous	Chrysotile 2%	None Detected	Binding Material
Location: White 9x9 floor tile in basement / Taken from southwest corner										
						5522-4157-27B	Yellow,White / Mastic,Material / Fibrous / Homogeneous	None Detected	Cellulose 2%	Binding Material
B-112	N/A	N/A	N/A	N/A	39	5522-4157-28A	Brown / 12x12 Floor Tile / Fibrous / Homogeneous	Chrysotile 2%	None Detected	Binding Material
Location: Brown 12x12 floor tile in northwest bathroom / Taken from northwest corner										
						5522-4157-28B	Black / Mastic,Material / Fibrous / Homogeneous	Chrysotile <1%	Cellulose 3%	Binding Material



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Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-113	N/A	N/A	N/A	N/A	39	5522-4157-29A	Brown / 12x12 Floor Tile / Fibrous / Homogeneous	Chrysotile 2%	None Detected	Binding Material
Location: Brown 12x12 floor tile in northwest bathroom / Taken from southwest corner										
						5522-4157-29B	Black / Mastic,Material / Fibrous / Homogeneous	Chrysotile <1%	Cellulose 2%	Binding Material
Location: Brown 12x12 floor tile in northwest bathroom / Taken from eastern corner										
B-114	N/A	N/A	N/A	N/A	39	5522-4157-30A	Brown / 12x12 Floor Tile / Fibrous / Homogeneous	Chrysotile 2%	None Detected	Binding Material
Location: Brown 12x12 floor tile in northwest bathroom / Taken from eastern corner										
						5522-4157-30B	Black / Mastic,Material / Fibrous / Homogeneous	Chrysotile <1%	Cellulose 2%	Binding Material
Location: Grey 12x12 floor tile in northwest offices / Taken from northwest section										
B-115	N/A	N/A	N/A	N/A	40	5522-4157-31A	Beige,Grey / 12x12 Floor Tile / Fibrous / Homogeneous	Chrysotile 2%	None Detected	Binding Material
Location: Grey 12x12 floor tile in northwest offices / Taken from northwest section										



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B-115	N/A	N/A	N/A	N/A	40	5522-4157-31B	Black / Mastic / Fibrous / Homogeneous	None Detected	Cellulose 2%	Binding Material
Location: Grey 12x12 floor tile in northwest offices / Taken from northwest section										
B-116	N/A	N/A	N/A	N/A	40	5522-4157-32A	Beige,Grey / 12x12 Floor Tile / Fibrous / Homogeneous	Chrysotile 2%	None Detected	Binding Material
Location: Grey 12x12 floor tile in northwest offices / Taken from southeast section										
						5522-4157-32B	Black / Mastic / Fibrous / Homogeneous	None Detected	Cellulose 2%	Binding Material
B-117	N/A	N/A	N/A	N/A	40	5522-4157-33A	Beige,Grey / 12x12 Floor Tile / Fibrous / Homogeneous	Chrysotile 2%	None Detected	Binding Material
Location: Grey 12x12 floor tile in northwest offices / Taken from southwest section										
						5522-4157-33B	Black / Mastic / Fibrous / Homogeneous	None Detected	Cellulose 2%	Binding Material



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B-118	N/A	N/A	N/A	N/A	41	5522-4157-34A	Red / 12x12 Floor Tile / Fibrous / Homogeneous	Chrysotile 2%	None Detected	Binding Material
Location: Red 12x12 floor tiles north and south offices of northwest offices / Taken from north office, northern section										
						5522-4157-34B	Black / Mastic / Fibrous / Homogeneous	Chrysotile 2%	None Detected	Binding Material
Location: Red 12x12 floor tiles north and south offices of northwest offices / Taken from south office, northern section										
B-119	N/A	N/A	N/A	N/A	41	5522-4157-35A	Red / 12x12 Floor Tile / Fibrous / Homogeneous	Chrysotile 2%	None Detected	Binding Material
Location: Red 12x12 floor tiles north and south offices of northwest offices / Taken from south office, northern section										
						5522-4157-35B	Black / Mastic / Fibrous / Homogeneous	Chrysotile 2%	None Detected	Binding Material
Location: Red 12x12 floor tiles north and south offices of northwest offices / Taken from south office, southern section										
B-120	N/A	N/A	N/A	N/A	41	5522-4157-36A	Red / 12x12 Floor Tile / Fibrous / Homogeneous	Chrysotile 2%	None Detected	Binding Material
Location: Red 12x12 floor tiles north and south offices of northwest offices / Taken from south office, southern section										



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B-120	N/A	N/A	N/A	N/A	41	5522-4157-36B	Black / Mastic / Fibrous / Homogeneous	Chrysotile 2%	None Detected	Binding Material
Location: Red 12x12 floor tiles north and south offices of northwest offices / Taken from south office, southern section										
B-121	N/A	N/A	N/A	N/A	42	5522-4157-37	White,Brown / Ceiling Tile / Fibrous / Homogeneous	None Detected	Cellulose 85%	Binding Material
Location: 12x12 white perforated ceiling tile in northwest offices / Taken from northern office										
B-122	N/A	N/A	N/A	N/A	42	5522-4157-38	White,Brown / Ceiling Tile / Fibrous / Homogeneous	None Detected	Cellulose 85%	Binding Material
Location: 12x12 white perforated ceiling tile in northwest offices / Taken from southern office										
B-123	N/A	N/A	N/A	N/A	42	5522-4157-39	White,Brown / Ceiling Tile / Fibrous / Homogeneous	None Detected	Cellulose 85%	Binding Material
Location: 12x12 white perforated ceiling tile in northwest offices / Taken from northwest office										
B-124	N/A	N/A	N/A	N/A	43	5522-4157-40A	Grey / Cove Base / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Grey base boarding throughout northwest offices / Taken from northern office										



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B-124	N/A	N/A	N/A	N/A	43	5522-4157-40B	Yellow / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Grey base boarding throughout northwest offices / Taken from northern office										
B-125	N/A	N/A	N/A	N/A	43	5522-4157-41A	Grey / Cove Base / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Grey base boarding throughout northwest offices / Taken from southern office										
						5522-4157-41B	Yellow / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
B-126	N/A	N/A	N/A	N/A	43	5522-4157-42A	Grey / Cove Base / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Grey base boarding throughout northwest offices / Taken from northwest office										
						5522-4157-42B	Yellow / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material



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B-127	N/A	N/A	N/A	N/A	44	5522-4157-43A	Dark Brown / 9x9 Floor Tile / Fibrous / Homogeneous	Chrysotile 2%	None Detected	Binding Material
Location: Dark brown floor tile 9x9 southern office, northwest offices / Taken from northwest corner										
						5522-4157-43B	Black / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
B-128	N/A	N/A	N/A	N/A	44	5522-4157-44A	Dark Brown / 9x9 Floor Tile / Fibrous / Homogeneous	Chrysotile 2%	None Detected	Binding Material
Location: Dark brown floor tile 9x9 southern office, northwest offices / Taken from central area										
						5522-4157-44B	Black / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
B-129	N/A	N/A	N/A	N/A	44	5522-4157-45A	Dark Brown / 9x9 Floor Tile / Fibrous / Homogeneous	Chrysotile 2%	None Detected	Binding Material
Location: Dark brown floor tile 9x9 southern office, northwest offices / Taken from southeast corner										



**PLM (Bulk) - Asbestos Analysis Report - Visual ID**  
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**Turnstone EH & S, Inc. (Houston)**  
1322 Space Park Drive, Suite A155  
Houston, TX 77058  
281-470-0708  
Contact: Luis Hernandez

**Report Number: 5522-4157**  
**Report Date: October 19, 2022**  
**Collection Date: October 12, 2022**  
**Date Received: October 14, 2022**  
**Turn-around time: 72 Hour**

Job ID / Site: H22-0546 / Eastman Solutia-Trenton, MI / Phos Service Bldg

Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-129	N/A	N/A	N/A	N/A	44	5522-4157-45B	Black / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Dark brown floor tile 9x9 southern office, northwest offices / Taken from southeast corner										
B-130	N/A	N/A	N/A	N/A	45	5522-4157-46A	Off White / 12x12 Floor Tile / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Layered flooring system, light grey floor tile, 12x12 northeast offices / Taken from northwest corner of northeast office										
						5522-4157-46B	Black / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
						5522-4157-46C	Green / Floor Tile / Fibrous / Homogeneous	Chrysotile 2%	None Detected	Binding Material
						5522-4157-46D	Black / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material



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Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-131	N/A	N/A	N/A	N/A	45	5522-4157-47A	Off White / 12x12 Floor Tile / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Layered flooring system, light grey floor tile, 12x12 northeast offices / Taken from northeast corner of northeast office										
						5522-4157-47B	Black / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
						5522-4157-47C	Green / Floor Tile / Fibrous / Homogeneous	Chrysotile 2%	None Detected	Binding Material
						5522-4157-47D	Black / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
B-132	N/A	N/A	N/A	N/A	45	5522-4157-48A	Off White / 12x12 Floor Tile / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Layered flooring system, light grey floor tile, 12x12 northeast offices / Taken from southwest corner of northeast office										



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Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-132	N/A	N/A	N/A	N/A	45	5522-4157-48B	Black / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Layered flooring system, light grey floor tile, 12x12 northeast offices / Taken from southwest corner of northeast office										
						5522-4157-48C	Green / Floor Tile / Fibrous / Homogeneous	Chrysotile 2%	None Detected	Binding Material
						5522-4157-48D	Black / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
B-133	N/A	N/A	N/A	N/A	46	5522-4157-49	White,Brown / Ceiling Tile / Fibrous / Homogeneous	None Detected	Cellulose 85%	Binding Material
Location: Cream perforated 12x12 ceiling tile throughout building / Taken from ceiling northeast office										
B-134	N/A	N/A	N/A	N/A	46	5522-4157-50A	White,Brown / Ceiling Tile / Fibrous / Homogeneous	None Detected	Cellulose 85%	Binding Material
Location: Cream perforated 12x12 ceiling tile throughout building / Taken from main hallway										



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Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-134	N/A	N/A	N/A	N/A	46	5522-4157-50B	Brown / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Cream perforated 12x12 ceiling tile throughout building / Taken from main hallway										
B-135	N/A	N/A	N/A	N/A	46	5522-4157-51A	White, Brown / Ceiling Tile / Fibrous / Homogeneous	None Detected	Cellulose 85%	Binding Material
Location: Cream perforated 12x12 ceiling tile throughout building / Taken from janitors closet										
						5522-4157-51B	Brown / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
B-136	N/A	N/A	N/A	N/A	47	5522-4157-52A	Light Tan / 12x12 Floor Tile / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Light tan 12x12 floor tile in health services wing / Taken from health services entry										
						5522-4157-52B	Black / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material



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Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-137	N/A	N/A	N/A	N/A	47	5522-4157-53A	Light Tan / 12x12 Floor Tile / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Light tan 12x12 floor tile in health services wing / Taken from western office										
						5522-4157-53B	Black / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Light tan 12x12 floor tile in health services wing / Taken from health hallway to main hallway										
B-138	N/A	N/A	N/A	N/A	47	5522-4157-54A	Light Tan / 12x12 Floor Tile / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Light tan 12x12 floor tile in health services wing / Taken from health hallway to main hallway										
						5522-4157-54B	Black / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Linoleum flooring in health services area, cream / Taken from northern area										
B-139	N/A	N/A	N/A	N/A	48	5522-4157-55	Tan / Flooring / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Linoleum flooring in health services area, cream / Taken from northern area										



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Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-140	N/A	N/A	N/A	N/A	48	5522-4157-56	Tan / Flooring / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Linoleum flooring in health services area, cream / Taken from western area										
B-141	N/A	N/A	N/A	N/A	48	5522-4157-57	Tan / Flooring / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Linoleum flooring in health services area, cream / Taken from eastern area										
B-142	N/A	N/A	N/A	N/A	49	5522-4157-58	Yellow,Grey / Material / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Brick and mortar throughout interior of Phos service building / Taken from main hallway										
B-143	N/A	N/A	N/A	N/A	49	5522-4157-59	Yellow,Grey / Material / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Brick and mortar throughout interior of Phos service building / Taken from northeast office hallway										
B-144	N/A	N/A	N/A	N/A	49	5522-4157-60	Yellow,Grey / Material / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Brick and mortar throughout interior of Phos service building / Taken from men's locker room										



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B-145	N/A	N/A	N/A	N/A	50	5522-4157-61A	Black / Cove Base / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Black/brown base boarding throughout Phos service building / Taken from north end of main hallway										
						5522-4157-61B	Brown / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Black/brown base boarding throughout Phos service building / Taken from south end of main hallway										
B-146	N/A	N/A	N/A	N/A	50	5522-4157-62A	Black / Cove Base / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Black/brown base boarding throughout Phos service building / Taken from south end of main hallway										
						5522-4157-62B	Brown / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Black/brown base boarding throughout Phos service building / Taken from southeast offices										
B-147	N/A	N/A	N/A	N/A	50	5522-4157-63A	Black / Cove Base / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Black/brown base boarding throughout Phos service building / Taken from southeast offices										



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Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-147	N/A	N/A	N/A	N/A	50	5522-4157-63B	Brown / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Black/brown base boarding throughout Phos service building / Taken from southeast offices										
B-148	N/A	N/A	N/A	N/A	51	5522-4157-64	White,Brown / Wall Covering, Drywall / Fibrous / Homogeneous	None Detected	Cellulose 10% Fibrous Glass 2%	Binding Material
Location: White stipple wall system in central conference room in Phos building / Taken from southern wall										
B-149	N/A	N/A	N/A	N/A	51	5522-4157-65	White,Brown / Wall Covering, Drywall / Fibrous / Homogeneous	None Detected	Cellulose 10% Fibrous Glass 2%	Binding Material
Location: White stipple wall system in central conference room in Phos building / Taken from northern section of southern wall										
B-150	N/A	N/A	N/A	N/A	51	5522-4157-66	White,Brown / Wall Covering, Drywall / Fibrous / Homogeneous	None Detected	Cellulose 10% Fibrous Glass 2%	Binding Material
Location: White stipple wall system in central conference room in Phos building / Taken from eastern wall										
B-151	N/A	N/A	N/A	N/A	51	5522-4157-67	White,Brown / Wall Covering, Drywall / Fibrous / Homogeneous	None Detected	Cellulose 10% Fibrous Glass 2%	Binding Material
Location: White stipple wall system in central conference room in Phos building / Taken from western wall										



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Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-152	N/A	N/A	N/A	N/A	51	5522-4157-68	White,Brown / Wall Covering, Drywall / Fibrous / Homogeneous	None Detected	Cellulose 10% Fibrous Glass 2%	Binding Material
Location: White stipple wall system in central conference room in Phos building / Taken from northern wall										
B-153	N/A	N/A	N/A	N/A	52	5522-4157-69A	Off White / Paint / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Yellow smooth wall system of southern most offices, Phos building / Taken from southern wall										
						5522-4157-69B	Brown,White / Drywall / Fibrous / Homogeneous	None Detected	Cellulose 10%	Binding Material
B-154	N/A	N/A	N/A	N/A	52	5522-4157-70A	Off White / Paint / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Yellow smooth wall system of southern most offices, Phos building / Taken from northern wall										
						5522-4157-70B	Brown,White / Drywall / Fibrous / Homogeneous	None Detected	Cellulose 10%	Binding Material



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B-155	N/A	N/A	N/A	N/A	52	5522-4157-71A	Off White / Paint / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Yellow smooth wall system of southern most offices, Phos building / Taken from eastern wall										
						5522-4157-71B	Brown,White / Drywall / Fibrous / Homogeneous	None Detected	Cellulose 10%	Binding Material
B-156	N/A	N/A	N/A	N/A	52	5522-4157-72A	Off White / Paint / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Yellow smooth wall system of southern most offices, Phos building / Taken from western wall										
						5522-4157-72B	Brown,White / Drywall / Fibrous / Homogeneous	None Detected	Cellulose 10%	Binding Material
B-157	N/A	N/A	N/A	N/A	52	5522-4157-73A	Off White / Paint / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Yellow smooth wall system of southern most offices, Phos building / Taken from northern area of southern wall										



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B-157	N/A	N/A	N/A	N/A	52	5522-4157-73B	Brown,White / Drywall / Fibrous / Homogeneous	None Detected	Cellulose 10%	Binding Material
Location: Yellow smooth wall system of southern most offices, Phos building / Taken from northern area of southern wall										
B-158	N/A	N/A	N/A	N/A	53	5522-4157-74	White,Grey / Ceiling Tile / Fibrous / Homogeneous	None Detected	Cellulose 45% Fibrous Glass 15%	Binding Material
Location: 2'x3' ceiling tiles in southeast offices in Phos building / Taken from southern office										
B-159	N/A	N/A	N/A	N/A	53	5522-4157-75	White,Grey / Ceiling Tile / Fibrous / Homogeneous	None Detected	Cellulose 45% Fibrous Glass 15%	Binding Material
Location: 2'x3' ceiling tiles in southeast offices in Phos building / Taken from southeast office, north corner										
B-160	N/A	N/A	N/A	N/A	53	5522-4157-76	White,Grey / Ceiling Tile / Fibrous / Homogeneous	None Detected	Cellulose 45% Fibrous Glass 15%	Binding Material
Location: 2'x3' ceiling tiles in southeast offices in Phos building / Taken from southeast office, south corner										
B-161	N/A	N/A	N/A	N/A	54	5522-4157-77A	Off White,Beige / Wallpaper / Fibrous / Homogeneous	None Detected	Synthetic 30%	Binding Material
Location: Streaked, wall papered, wall system in credit union building / Taken from atrium										



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B-161	N/A	N/A	N/A	N/A	54	5522-4157-77B	Yellow / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Streaked, wall papered, wall system in credit union building / Taken from atrium										
						5522-4157-77C	Brown,White / Drywall / Fibrous / Homogeneous	None Detected	Cellulose 10% Fibrous Glass 2%	Binding Material
B-162	N/A	N/A	N/A	N/A	54	5522-4157-78A	Off White,Beige / Wallpaper / Fibrous / Homogeneous	None Detected	Synthetic 30%	Binding Material
Location: Streaked, wall papered, wall system in credit union building / Taken from teller room, southern section										
						5522-4157-78B	Yellow / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
						5522-4157-78C	Brown,White / Drywall / Fibrous / Homogeneous	None Detected	Cellulose 10% Fibrous Glass 2%	Binding Material



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B-163	N/A	N/A	N/A	N/A	54	5522-4157-79A	Off White,Beige / Wallpaper / Fibrous / Homogeneous	None Detected	Synthetic 30%	Binding Material
Location: Streaked, wall papered, wall system in credit union building / Taken from northern section of teller room										
						5522-4157-79B	Yellow / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
						5522-4157-79C	Brown,White / Drywall / Fibrous / Homogeneous	None Detected	Cellulose Fibrous Glass 10% 2%	Binding Material
B-164	N/A	N/A	N/A	N/A	54	5522-4157-80A	Off White,Beige / Wallpaper / Fibrous / Homogeneous	None Detected	Synthetic 30%	Binding Material
Location: Streaked, wall papered, wall system in credit union building / Taken from northern back office										
						5522-4157-80B	Yellow / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material



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**Report Number: 5522-4157**  
**Report Date: October 19, 2022**  
**Collection Date: October 12, 2022**  
**Date Received: October 14, 2022**  
**Turn-around time: 72 Hour**

Job ID / Site: H22-0546 / Eastman Solutia-Trenton, MI / Phos Service Bldg

Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-164	N/A	N/A	N/A	N/A	54	5522-4157-80C	Brown,White / Drywall / Fibrous / Homogeneous	None Detected	Cellulose 10% Fibrous Glass 2%	Binding Material
Location: Streaked, wall papered, wall system in credit union building / Taken from northern back office										
B-165	N/A	N/A	N/A	N/A	54	5522-4157-81A	Off White,Beige / Wallpaper / Fibrous / Homogeneous	None Detected	Synthetic 30%	Binding Material
Location: Streaked, wall papered, wall system in credit union building / Taken from southern back office										
						5522-4157-81B	Yellow / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
						5522-4157-81C	Brown,White / Drywall / Fibrous / Homogeneous	None Detected	Cellulose 10% Fibrous Glass 2%	Binding Material
B-166	N/A	N/A	N/A	N/A	54	5522-4157-82A	Off White,Beige / Wallpaper / Fibrous / Homogeneous	None Detected	Synthetic 30%	Binding Material
Location: Streaked, wall papered, wall system in credit union building / Taken from ERT northern wall										



**Apex Precision Analytical Services. Inc.**

306 W. Edgewood Dr., Suite D  
Friendswood, TX, 77546

**PLM (Bulk) - Asbestos Analysis Report - Visual ID**  
(EPA Method 600/R-93-116 Visual Area Estimation)

Turnstone EH & S, Inc. (Houston)  
1322 Space Park Drive, Suite A155  
Houston, TX 77058  
281-470-0708  
Contact: Luis Hernandez

Report Number: 5522-4157  
Report Date: October 19, 2022  
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Date Received: October 14, 2022  
Turn-around time: 72 Hour

Job ID / Site: H22-0546 / Eastman Solutia-Trenton, MI / Phos Service Bldg

Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-166	N/A	N/A	N/A	N/A	54	5522-4157-82B	Yellow / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Streaked, wall papered, wall system in credit union building / Taken from ERT northern wall										
						5522-4157-82C	Brown,White / Drywall / Fibrous / Homogeneous	None Detected	Cellulose 10% Fibrous Glass 2%	Binding Material
B-167	N/A	N/A	N/A	N/A	54	5522-4157-83A	Off White,Beige / Wallpaper / Fibrous / Homogeneous	None Detected	Synthetic 30%	Binding Material
Location: Streaked, wall papered, wall system in credit union building / Taken from ERT southern wall										
						5522-4157-83B	Yellow / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
						5522-4157-83C	Brown,White / Drywall / Fibrous / Homogeneous	None Detected	Cellulose 10% Fibrous Glass 2%	Binding Material



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281-470-0708  
Contact: Luis Hernandez

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Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-168	N/A	N/A	N/A	N/A	55	5522-4157-84A	Peach / Floor Tile / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Grey floor tile in janitors closet and storage room in credit union building / Taken from janitors closet										
						5522-4157-84B	Yellow, Brown / Mastic, Material / Fibrous / Homogeneous	None Detected	Cellulose 5%	Binding Material
B-169	N/A	N/A	N/A	N/A	55	5522-4157-85A	Peach / Floor Tile / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Grey floor tile in janitors closet and storage room in credit union building / Taken from northwest corner of storage room										
						5522-4157-85B	Yellow / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
B-170	N/A	N/A	N/A	N/A	55	5522-4157-86A	Peach / Floor Tile / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Grey floor tile in janitors closet and storage room in credit union building / Taken from southeast corner of storage room										



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Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-170	N/A	N/A	N/A	N/A	55	5522-4157-86B	Yellow, Brown / Mastic, Material / Fibrous / Homogeneous	None Detected	Cellulose 5%	Binding Material
Location: Grey floor tile in janitors closet and storage room in credit union building / Taken from southeast corner of storage room										
B-171	N/A	N/A	N/A	N/A	56	5522-4157-87A	Pink / Baseboard / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Pink base boarding throughout credit union building / Taken from janitors closet										
						5522-4157-87B	Yellow / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
B-172	N/A	N/A	N/A	N/A	56	5522-4157-88A	Pink / Baseboard / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Pink base boarding throughout credit union building / Taken from main lobby										
						5522-4157-88B	Yellow / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material



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Job ID / Site: H22-0546 / Eastman Solutia-Trenton, MI / Phos Service Bldg

Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-173	N/A	N/A	N/A	N/A	56	5522-4157-89A	Pink / Baseboard / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Pink base boarding throughout credit union building / Taken from east offices										
						5522-4157-89B	Yellow / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
B-174	N/A	N/A	N/A	N/A	57	5522-4157-90	White,Grey / 2x2 Ceiling Tile / Fibrous / Homogeneous	None Detected	Cellulose 45% Fibrous Glass 15%	Binding Material
Location: 2x2 white ceiling tiles throughout credit union / Taken from northern area of main lobby										
B-175	N/A	N/A	N/A	N/A	57	5522-4157-91	White,Grey / 2x2 Ceiling Tile / Fibrous / Homogeneous	None Detected	Cellulose 45% Fibrous Glass 15%	Binding Material
Location: 2x2 white ceiling tiles throughout credit union / Taken from southern area of main lobby										
B-176	N/A	N/A	N/A	N/A	57	5522-4157-92	White,Grey / 2x2 Ceiling Tile / Fibrous / Homogeneous	None Detected	Cellulose 45% Fibrous Glass 15%	Binding Material
Location: 2x2 white ceiling tiles throughout credit union / Taken from northeast office										

Turnstone  
EH&S, Inc.  
Chain of  
Custody



**TURNSTONE**  
ENVIRONMENTAL, HEALTH AND SAFETY, INC.

1322 Space Park Dr, Suite A-155  
Houston, Texas 77058

5522-4157

<b>Project # / Name :</b>	H22-0546 - Eastman Solatia - Trenton NJ - Phos Service Bldg			
<b>TURNAROUND TIME</b>				
<input type="checkbox"/> Same Day <input type="checkbox"/> 24 Hours <input checked="" type="checkbox"/> Standard [3 Days] <input type="checkbox"/> Apply Open Lab Fees				
<small>(NOTE: All Turnaround times are based on the date / time the sample is received by the Laboratory)</small>				
<b>Sample Date</b>	<b>Number of Samples</b>	<b>Type of Sample</b>	<b>Contact Person:</b>	<b>Phone #:</b>
10-12-22	92	Bulk	Luis Hernandez	832-946-3602
<b>Special Instructions</b>				
Email results to <a href="mailto:luis.hernandez@turnstoneehs.com">luis.hernandez@turnstoneehs.com</a> & <a href="mailto:michael.ortiz@turnstoneehs.com">michael.ortiz@turnstoneehs.com</a> / write sample description & location on sample results				

Sample Number	Sample Description / Location	Analyte	Time (min.)	Volume L or ml
B-85	See Attached Data Sheet	Asbestos		
↓		↓		
B-176				

<b>Date/ Time:</b>	<b>Sampled By:</b>	<b>Relinquished By:</b>	<b>Accepted by:</b>
	John Powers	John Powers	Armando Rin 10/14/22 8450

## ASBESTOS BULK ANALYSIS REPORT

Date: October 19, 2022

Turnstone EH & S, Inc. (Houston)

Report: 5522-4159  
H22-0546 / Eastman Solutia-Trenton, MI /  
Phos Admin.

This document shall be considered a duly signed original report of the results obtained from the analyses performed. All analyses are done within government guidelines and regulations.

A handwritten signature in black ink, appearing to read 'G.R. Simmons', is positioned above a horizontal line.

Gary R. Simmons  
Laboratory Manager

Lab Comments on Project: N/A

Analytical results and reports are generated by Apex Precision Analytical Services at the request of and for the use of the person or entity (client) named on such report. Result, reports or copies of same will not be released by Apex Precision Analytical Services to any third party without the written request from client. These results only represent the materials submitted. Supporting laboratory documentation is available upon request. This report cannot be used to represent conditions at any other location, date or time and does not imply that this space is free from these or any other contaminants. No responsibility or liability is assumed for the manner in which these results are used or interpreted. This must not be used to claim product endorsement by NVLAP or any government agency of the United States. Apex Precision Analytical Services reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified.



**Apex Precision Analytical Services. Inc.**

306 W. Edgewood Dr., Suite D  
Friendswood, TX, 77546

**PLM (Bulk) - Asbestos Analysis Report - Visual ID**  
(EPA Method 600/R-93-116 Visual Area Estimation)

**Turnstone EH & S, Inc. (Houston)**  
1322 Space Park Drive, Suite A155  
Houston, TX 77058  
281-470-0708  
Contact: Luis Hernandez

**Report Number: 5522-4159**  
**Report Date: October 19, 2022**  
**Collection Date: October 13, 2022**  
**Date Received: October 14, 2022**  
**Turn-around time: 72 Hour**

Job ID / Site: H22-0546 / Eastman Solutia-Trenton, MI / Phos Admin.

Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-177	N/A	N/A	N/A	N/A	58	5522-4159-01A	Brown / Floor Tile / Fibrous / Homogeneous	Chrysotile 2%	None Detected	Binding Material
Location: Brown marble tile under carpet, throughout 1 <sup>st</sup> floor, Phos admin / Taken from southeast most office										
						5522-4159-01B	Black / Mastic / Fibrous / Homogeneous	Chrysotile 2%	None Detected	Binding Material
Location: Brown marble tile under carpet, throughout 1 <sup>st</sup> floor, Phos admin / Taken from southwest electrical room										
B-178	N/A	N/A	N/A	N/A	58	5522-4159-02A	Brown / Floor Tile / Fibrous / Homogeneous	Chrysotile 2%	None Detected	Binding Material
Location: Brown marble tile under carpet, throughout 1 <sup>st</sup> floor, Phos admin / Taken from northeast most office										
						5522-4159-02B	Black / Mastic / Fibrous / Homogeneous	Chrysotile 2%	None Detected	Binding Material
B-179	N/A	N/A	N/A	N/A	58	5522-4159-03A	Brown / Floor Tile / Fibrous / Homogeneous	Chrysotile 2%	None Detected	Binding Material
Location: Brown marble tile under carpet, throughout 1 <sup>st</sup> floor, Phos admin / Taken from northeast most office										



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Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-179	N/A	N/A	N/A	N/A	58	5522-4159-03B	Black / Mastic / Fibrous / Homogeneous	Chrysotile 2%	None Detected	Binding Material
Location: Brown marble tile under carpet, throughout 1 <sup>st</sup> floor, Phos admin / Taken from northeast most office										
B-180	N/A	N/A	N/A	N/A	59	5522-4159-04A	Brown / Baseboard / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Brown/black base boarding throughout 1 <sup>st</sup> floor, Phos admin / Taken from northwest most office										
						5522-4159-04B	Brown / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
B-181	N/A	N/A	N/A	N/A	59	5522-4159-05A	Brown / Baseboard / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Brown/black base boarding throughout 1 <sup>st</sup> floor, Phos admin / Taken from southwest office										
						5522-4159-05B	Brown / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material



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Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-182	N/A	N/A	N/A	N/A	59	5522-4159-06A	Brown / Baseboard / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Brown/black base boarding throughout 1 <sup>st</sup> floor, Phos admin / Taken from main hallway										
						5522-4159-06B	Brown / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location:										
B-183	N/A	N/A	N/A	N/A	60	5522-4159-07	White,Grey / Ceiling Tile / Fibrous / Homogeneous	Amosite 2%	Fibrous Glass 50%	Binding Material
Location: White 2x3 ceiling tile throughout 1 <sup>st</sup> and sub-floor, Phos Admin / Taken from main hallway, north end										
B-184	N/A	N/A	N/A	N/A	60	5522-4159-08	White,Grey / Ceiling Tile / Fibrous / Homogeneous	Amosite 2%	Fibrous Glass 50%	Binding Material
Location: White 2x3 ceiling tile throughout 1 <sup>st</sup> and sub-floor, Phos Admin / Taken from main hallway, south end										
B-185	N/A	N/A	N/A	N/A	60	5522-4159-09	White,Grey / Ceiling Tile / Fibrous / Homogeneous	Amosite 2%	Fibrous Glass 50%	Binding Material
Location: White 2x3 ceiling tile throughout 1 <sup>st</sup> and sub-floor, Phos Admin / Taken from sub floor ceiling										



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Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-186	N/A	N/A	N/A	N/A	61	5522-4159-10	White,Brown / Wall Board / Fibrous / Homogeneous	None Detected	Cellulose 85%	Binding Material
Location: White stipple wallboard wall system throughout 1 <sup>st</sup> and sub floor, Phos admin / Taken from north end main hallway										
B-187	N/A	N/A	N/A	N/A	61	5522-4159-11	White,Brown / Wall Board / Fibrous / Homogeneous	None Detected	Cellulose 85%	Binding Material
Location: White stipple wallboard wall system throughout 1 <sup>st</sup> and sub floor, Phos admin / Taken from south end main hallway										
B-188	N/A	N/A	N/A	N/A	61	5522-4159-12	White,Brown / Wall Board / Fibrous / Homogeneous	None Detected	Cellulose 85%	Binding Material
Location: White stipple wallboard wall system throughout 1 <sup>st</sup> and sub floor, Phos admin / Taken from sub floor hallway										
B-189	N/A	N/A	N/A	N/A	62	5522-4159-13	White,Grey / 2x2 Ceiling Tile / Fibrous / Homogeneous	None Detected	Cellulose 45% Fibrous Glass 15%	Binding Material
Location: White stippled ceiling tile, 2x2, atrium and south offices, Phos admin / Taken from Atrium north end										
B-190	N/A	N/A	N/A	N/A	62	5522-4159-14	White,Grey / 2x2 Ceiling Tile / Fibrous / Homogeneous	None Detected	Cellulose 45% Fibrous Glass 15%	Binding Material
Location: White stippled ceiling tile, 2x2, atrium and south offices, Phos admin / Taken from Atrium south end										



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Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-191	N/A	N/A	N/A	N/A	62	5522-4159-15	White,Grey / 2x2 Ceiling Tile / Fibrous / Homogeneous	None Detected	Cellulose 45% Fibrous Glass 15%	Binding Material
Location: White stippled ceiling tile, 2x2, atrium and south offices, Phos admin / Taken from south office										
B-192	N/A	N/A	N/A	N/A	63	5522-4159-16	White / Plaster / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Ceiling plaster, 1 <sup>st</sup> floor, Atrium, Phos admin / Taken from atrium ceiling										
B-193	N/A	N/A	N/A	N/A	63	5522-4159-17	White / Plaster / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Ceiling plaster, 1 <sup>st</sup> floor, Atrium, Phos admin / Taken from atrium ceiling										
B-194	N/A	N/A	N/A	N/A	63	5522-4159-18	White / Plaster / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Ceiling plaster, 1 <sup>st</sup> floor, Atrium, Phos admin / Taken from atrium ceiling										
B-195	N/A	N/A	N/A	N/A	64	5522-4159-19	Green,Black / Material / Fibrous / Homogeneous	None Detected	Cellulose 90%	Binding Material
Location: Flexible black HVAC seams throughout Phos admin / Taken from 1 <sup>st</sup> floor main hallway										



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Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-196	N/A	N/A	N/A	N/A	64	5522-4159-20	Green,Black / Material / Fibrous / Homogeneous	None Detected	Cellulose 90%	Binding Material
Location: Flexible black HVAC seams throughout Phos admin / Taken from 1 <sup>st</sup> floor main hallway										
B-197	N/A	N/A	N/A	N/A	64	5522-4159-21	Green,Black / Material / Fibrous / Homogeneous	None Detected	Cellulose 90%	Binding Material
Location: Flexible black HVAC seams throughout Phos admin / Taken from 1 <sup>st</sup> floor main hallway										
B-198	N/A	N/A	N/A	N/A	65	5522-4159-22A	Red / 9x9 Floor Tile / Fibrous / Homogeneous	Chrysotile 2%	None Detected	Binding Material
Location: Red 9x9 floor tiles, north offices, sub floor, presumed under carpet Phos admin / Taken from north most office										
						5522-4159-22B	Black / Mastic / Fibrous / Homogeneous	Chrysotile 2%	None Detected	Binding Material
B-199	N/A	N/A	N/A	N/A	65	5522-4159-23A	Red / 9x9 Floor Tile / Fibrous / Homogeneous	Chrysotile 2%	None Detected	Binding Material
Location: Red 9x9 floor tiles, north offices, sub floor, presumed under carpet Phos admin / Taken from northwest most office										



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Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-199	N/A	N/A	N/A	N/A	65	5522-4159-23B	Black / Mastic / Fibrous / Homogeneous	Chrysotile 2%	None Detected	Binding Material
Location: Red 9x9 floor tiles, north offices, sub floor, presumed under carpet Phos admin / Taken from northwest most office										
B-200	N/A	N/A	N/A	N/A	65	5522-4159-24A	Red / 9x9 Floor Tile / Fibrous / Homogeneous	Chrysotile 2%	None Detected	Binding Material
Location: Red 9x9 floor tiles, north offices, sub floor, presumed under carpet Phos admin / Taken from northeast most office										
						5522-4159-24B	Black / Mastic / Fibrous / Homogeneous	Chrysotile 2%	None Detected	Binding Material
B-201	N/A	N/A	N/A	N/A	66	5522-4159-25A	White, Brown / Ceiling Tile / Fibrous / Homogeneous	None Detected	Cellulose 85%	Binding Material
Location: White 12x12 perforated ceiling tiles throughout sub floor, Phos admin / Taken from north main hallway										
						5522-4159-25B	Brown / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material



**PLM (Bulk) - Asbestos Analysis Report - Visual ID**  
(EPA Method 600/R-93-116 Visual Area Estimation)

**Turnstone EH & S, Inc. (Houston)**  
1322 Space Park Drive, Suite A155  
Houston, TX 77058  
281-470-0708  
Contact: Luis Hernandez

**Report Number: 5522-4159**  
**Report Date: October 19, 2022**  
**Collection Date: October 13, 2022**  
**Date Received: October 14, 2022**  
**Turn-around time: 72 Hour**

Job ID / Site: H22-0546 / Eastman Solutia-Trenton, MI / Phos Admin.

Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-202	N/A	N/A	N/A	N/A	66	5522-4159-26A	White,Brown / Ceiling Tile / Fibrous / Homogeneous	None Detected	Cellulose 85%	Binding Material
Location: White 12x12 perforated ceiling tiles throughout sub floor, Phos admin / Taken from central hallway										
						5522-4159-26B	Brown / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
B-203	N/A	N/A	N/A	N/A	66	5522-4159-27A	White,Brown / Ceiling Tile / Fibrous / Homogeneous	None Detected	Cellulose 85%	Binding Material
Location: White 12x12 perforated ceiling tiles throughout sub floor, Phos admin / Taken from south end hallway										
						5522-4159-27B	Brown / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
B-204	N/A	N/A	N/A	N/A	67	5522-4159-28A	Tan / 12x12 Floor Tile / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: White speckled 12x12 floor tile at vault and south offices, sub floor, Phos admin / Taken from vault floor										



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Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-204	N/A	N/A	N/A	N/A	67	5522-4159-28B	Black / Mastic / Fibrous / Homogeneous	Chrysotile 2%	None Detected	Binding Material
Location: White speckled 12x12 floor tile at vault and south offices, sub floor, Phos admin / Taken from vault floor										
B-205	N/A	N/A	N/A	N/A	67	5522-4159-29A	Off White / 12x12 Floor Tile / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: White speckled 12x12 floor tile at vault and south offices, sub floor, Phos admin / Taken from south office floor, north end										
						5522-4159-29B	Yellow / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
B-206	N/A	N/A	N/A	N/A	67	5522-4159-30A	Black, Yellow / Mastic / Fibrous / Homogeneous	Chrysotile 2%	None Detected	Binding Material
Location: White speckled 12x12 floor tile at vault and south offices, sub floor, Phos admin / Taken from south office floor, south end										
						5522-4159-30B	Off White / 12x12 Floor Tile / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material



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Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-206	N/A	N/A	N/A	N/A	67	5522-4159-30C	Black / Mastic / Fibrous / Homogeneous	Chrysotile 2%	None Detected	Binding Material
Location: White speckled 12x12 floor tile at vault and south offices, sub floor, Phos admin / Taken from south office floor, south end										
B-207	N/A	N/A	N/A	N/A	68	5522-4159-31A	White,Brown / Material / Fibrous / Homogeneous	None Detected	Cellulose 85%	Binding Material
Location: White stippled ceiling tile throughout south wing to offices / Taken from south wing hallway										
						5522-4159-31B	White,Grey / Material / Fibrous / Homogeneous	Chrysotile 3%	Cellulose 3%	Binding Material
B-208	N/A	N/A	N/A	N/A	68	5522-4159-32A	White,Brown / Material / Fibrous / Homogeneous	None Detected	Cellulose 85%	Binding Material
Location: White stippled ceiling tile throughout south wing to offices / Taken from southwest most office										
						5522-4159-32B	White,Grey / Material / Fibrous / Homogeneous	Chrysotile 3%	Cellulose 3%	Binding Material



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Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-209	N/A	N/A	N/A	N/A	68	5522-4159-33A	White,Brown / Material / Fibrous / Homogeneous	None Detected	Cellulose 85%	Binding Material
Location: White stippled ceiling tile throughout south wing to offices / Taken from south most office										
						5522-4159-33B	White,Grey / Material / Fibrous / Homogeneous	Chrysotile 3%	Cellulose 3%	Binding Material
Location: White stippled ceiling tile throughout south wing to offices / Taken from south most office										
B-210	N/A	N/A	N/A	N/A	69	5522-4159-34A	Yellow / Wall Covering / Fibrous / Homogeneous	None Detected	Synthetic 30%	Binding Material
Location: Cream wall system of southeast control room / Taken from north wall										
						5522-4159-34B	Off White / Adhesive / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Cream wall system of southeast control room / Taken from north wall										
						5522-4159-34C	Brown,White / Drywall / Fibrous / Homogeneous	None Detected	Cellulose 10%	Binding Material
Location: Cream wall system of southeast control room / Taken from north wall										



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Job ID / Site: H22-0546 / Eastman Solutia-Trenton, MI / Phos Admin.

Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-211	N/A	N/A	N/A	N/A	69	5522-4159-35A	Yellow / Wall Covering / Fibrous / Homogeneous	None Detected	Synthetic 30%	Binding Material
Location: Cream wall system of southeast control room / Taken from northeast partition										
						5522-4159-35B	Off White / Adhesive / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
						5522-4159-35C	Brown,White / Drywall / Fibrous / Homogeneous	None Detected	Cellulose 10%	Binding Material
B-212	N/A	N/A	N/A	N/A	69	5522-4159-36A	Yellow / Wall Covering / Fibrous / Homogeneous	None Detected	Synthetic 30%	Binding Material
Location: Cream wall system of southeast control room / Taken from east wall										
						5522-4159-36B	Off White / Adhesive / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material



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Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-212	N/A	N/A	N/A	N/A	69	5522-4159-36C	Brown,White / Drywall / Fibrous / Homogeneous	None Detected	Cellulose 10%	Binding Material
Location: Cream wall system of southeast control room / Taken from east wall										
B-213	N/A	N/A	N/A	N/A	69	5522-4159-37A	Yellow / Wall Covering / Fibrous / Homogeneous	None Detected	Synthetic 30%	Binding Material
Location: Cream wall system of southeast control room / Taken from west wall										
						5522-4159-37B	Off White / Adhesive / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
						5522-4159-37C	Brown,White / Drywall / Fibrous / Homogeneous	None Detected	Cellulose 10%	Binding Material
B-214	N/A	N/A	N/A	N/A	69	5522-4159-38A	Yellow / Wall Covering / Fibrous / Homogeneous	None Detected	Synthetic 30%	Binding Material
Location: Cream wall system of southeast control room / Taken from south wall										



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Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-214	N/A	N/A	N/A	N/A	69	5522-4159-38B	Off White / Adhesive / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Cream wall system of southeast control room / Taken from south wall										
						5522-4159-38C	Brown,White / Drywall / Fibrous / Homogeneous	None Detected	Cellulose 10%	Binding Material
B-215	N/A	N/A	N/A	N/A	70	5522-4159-39A	Grey / Mastic Wrap / Fibrous / Homogeneous	None Detected	Cellulose 30%	Binding Material
Location: White wrapped utility lines throughout building, visible in sub floor mechanical room / Taken from vault room north most pipe										
						5522-4159-39B	White / Insulation / Fibrous / Homogeneous	Chrysotile 40%	None Detected	Binding Material
B-216	N/A	N/A	N/A	N/A	70	5522-4159-40A	Grey / Mastic Wrap / Fibrous / Homogeneous	None Detected	Cellulose 30%	Binding Material
Location: White wrapped utility lines throughout building, visible in sub floor mechanical room / Taken from vault room south most pipe										



# Apex Precision Analytical Services. Inc.

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Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-216	N/A	N/A	N/A	N/A	70	5522-4159-40B	White / Insulation / Fibrous / Homogeneous	Chrysotile 40%	None Detected	Binding Material
Location: White wrapped utility lines throughout building, visible in sub floor mechanical room / Taken from vault room south most pipe										
B-217	N/A	N/A	N/A	N/A	70	5522-4159-41A	Grey / Mastic Wrap / Fibrous / Homogeneous	None Detected	Cellulose 30%	Binding Material
Location: White wrapped utility lines throughout building, visible in sub floor mechanical room / Taken from mechanical room										
						5522-4159-41B	White / Insulation / Fibrous / Homogeneous	Chrysotile 40%	None Detected	Binding Material
B-218	N/A	N/A	N/A	N/A	71	5522-4159-42	Silver,Black / Roofing Material / Fibrous / Homogeneous	None Detected	Cellulose 5% Synthetic 5% Fibrous Glass 5%	Binding Material
Location: Black roofing material on roof of Phos admin / Taken from northwest area of roof										
B-219	N/A	N/A	N/A	N/A	71	5522-4159-43	Black / Roofing Material / Fibrous / Homogeneous	None Detected	Synthetic 5% Fibrous Glass 5%	Binding Material
Location: Black roofing material on roof of Phos admin / Taken from southwest area of roof										



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Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-220	N/A	N/A	N/A	N/A	71	5522-4159-44	Black / Roofing Material / Fibrous / Homogeneous	None Detected	Synthetic Fibrous Glass 5% 5%	Binding Material
Location: Black roofing material on roof of Phos admin / Taken from southeast area of roof										
B-221	N/A	N/A	N/A	N/A	72	5522-4159-45A	Red / Brick / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Red brick and mortar, exterior of Phos Admin building / Taken from north most wall										
						5522-4159-45B	Off White / Mortar / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
B-222	N/A	N/A	N/A	N/A	72	5522-4159-46A	Red / Brick / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Red brick and mortar, exterior of Phos Admin building / Taken from west wall										
						5522-4159-46B	Off White / Mortar / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material



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Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-223	N/A	N/A	N/A	N/A	72	5522-4159-47A	Red / Brick / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Red brick and mortar, exterior of Phos Admin building / Taken from east wall										
						5522-4159-47B	Off White / Mortar / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material



5522-4159

<b>Project # / Name :</b>	H22 0546 - Eastman solution - Trenton MI, Phos Admin.			
<b>TURNAROUND TIME</b>				
<input type="checkbox"/> Same Day	<input type="checkbox"/> 24 Hours	<input checked="" type="checkbox"/> Standard [3 Days] <sup>slow</sup>	<input type="checkbox"/> Apply Open Lab Fees	
(NOTE: All Turnaround times are based on the date / time the sample is received by the Laboratory)				
<b>Sample Date</b>	<b>Number of Samples</b>	<b>Type of Sample</b>	<b>Contact Person:</b>	<b>Phone #:</b>
10-13-22	47	Blk.	Luis Hernandez	832-946-3602
<b>Special Instructions</b>				
Email results to <a href="mailto:luis.hernandez@turnstoneehs.com">luis.hernandez@turnstoneehs.com</a> & <a href="mailto:michael.ortiz@turnstoneehs.com">michael.ortiz@turnstoneehs.com</a> / write sample description & location on sample results				

Sample Number	Sample Description / Location	Analyte	Time (min.)	Volume L or ml
B-177	See Attached Data Sheet	Asbestos		
↓		↓		
B-223				

<b>Date/ Time:</b>	<b>Sampled By:</b>	<b>Relinquished By:</b>	<b>Accepted by:</b>
	John Powers	John Powers	Angela Rein 10/14/22 0950

## ASBESTOS BULK ANALYSIS REPORT

Date: October 19, 2022

Turnstone EH & S, Inc. (Houston)

Report: 5522-4158  
H22-0546 / Eastman Solutia-Trenton, MI /  
Phos WH & Fire Pump House

This document shall be considered a duly signed original report of the results obtained from the analyses performed. All analyses are done within government guidelines and regulations.

A handwritten signature in black ink, appearing to read 'G.R. Simmons', is positioned above a horizontal line.

Gary R. Simmons  
Laboratory Manager

Lab Comments on Project: N/A

Analytical results and reports are generated by Apex Precision Analytical Services at the request of and for the use of the person or entity (client) named on such report. Result, reports or copies of same will not be released by Apex Precision Analytical Services to any third party without the written request from client. These results only represent the materials submitted. Supporting laboratory documentation is available upon request. This report cannot be used to represent conditions at any other location, date or time and does not imply that this space is free from these or any other contaminants. No responsibility or liability is assumed for the manner in which these results are used or interpreted. This must not be used to claim product endorsement by NVLAP or any government agency of the United States. Apex Precision Analytical Services reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified.



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Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-232	N/A	N/A	N/A	N/A	75	5522-4158-09	Orange / Insulation / Fibrous / Homogeneous	None Detected	Fibrous Glass 95%	Binding Material
Location: Insulation between exterior walk of Phos Warehouse, grey / Taken from south wall										
B-233	N/A	N/A	N/A	N/A	75	5522-4158-10	Orange / Insulation / Fibrous / Homogeneous	None Detected	Fibrous Glass 95%	Binding Material
Location: Insulation between exterior walk of Phos Warehouse, grey / Taken from north wall										
B-234	N/A	N/A	N/A	N/A	76	5522-4158-11	White,Grey / Material / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: White brick and mortar of interior offices, Phos warehouse / Taken from north wall										
B-235	N/A	N/A	N/A	N/A	76	5522-4158-12	White,Grey / Material / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: White brick and mortar of interior offices, Phos warehouse / Taken from east wall										
B-236	N/A	N/A	N/A	N/A	76	5522-4158-13	White,Grey / Material / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: White brick and mortar of interior offices, Phos warehouse / Taken from south wall										



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B-237	N/A	N/A	N/A	N/A	77	5522-4158-14	White / Insulation / Fibrous / Homogeneous	None Detected	Synthetic 10%	Binding Material
Location: White wrapped pipe, utility line, west side of Phos Warehouse / Taken from pipe at pump shed										
B-238	N/A	N/A	N/A	N/A	77	5522-4158-15	White / Insulation / Fibrous / Homogeneous	None Detected	Synthetic 10%	Binding Material
Location: White wrapped pipe, utility line, west side of Phos Warehouse / Taken from pipe above pump shed										
B-239	N/A	N/A	N/A	N/A	77	5522-4158-16	White / Insulation / Fibrous / Homogeneous	None Detected	Synthetic 10%	Binding Material
Location: White wrapped pipe, utility line, west side of Phos Warehouse / Taken from pipe in warehouse										
B-240	N/A	N/A	N/A	N/A	78	5522-4158-17A	White, Silver / Wrap / Fibrous / Homogeneous	None Detected	Cellulose 30% Fibrous Glass 5%	Binding Material
Location: Yellow insulation on utility lines in main warehouse floor plan / Taken from line in pump shed										
						5522-4158-17B	Yellow / Insulation / Fibrous / Homogeneous	None Detected	Fibrous Glass 95%	Binding Material



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**Turn-around time: 72 Hour**

Job ID / Site: H22-0546 / Eastman Solutia-Trenton, MI / Phos WH & Fire Pump House

Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-241	N/A	N/A	N/A	N/A	78	5522-4158-18A	White, Silver / Wrap / Fibrous / Homogeneous	None Detected	Cellulose 30% Fibrous Glass 5%	Binding Material
Location: Yellow insulation on utility lines in main warehouse floor plan / Taken from line in pump shed after meter										
						5522-4158-18B	Yellow / Insulation / Fibrous / Homogeneous	None Detected	Fibrous Glass 95%	Binding Material
Location: Yellow insulation on utility lines in main warehouse floor plan / Taken from line in pump shed after meter										
B-242	N/A	N/A	N/A	N/A	78	5522-4158-19A	White, Silver / Wrap / Fibrous / Homogeneous	None Detected	Cellulose 30% Fibrous Glass 5%	Binding Material
Location: Yellow insulation on utility lines in main warehouse floor plan / Taken from line in warehouse										
						5522-4158-19B	Yellow / Insulation / Fibrous / Homogeneous	None Detected	Fibrous Glass 95%	Binding Material
Location: Yellow insulation on utility lines in main warehouse floor plan / Taken from line in warehouse										
B-243	N/A	N/A	N/A	N/A	79	5522-4158-20A	Brown / Baseboard / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Brown base boarding throughout Phos Warehouse offices / Taken from northern office										



**Apex Precision Analytical Services. Inc.**

306 W. Edgewood Dr., Suite D  
Friendswood, TX, 77546

**PLM (Bulk) - Asbestos Analysis Report - Visual ID**  
(EPA Method 600/R-93-116 Visual Area Estimation)

**Turnstone EH & S, Inc. (Houston)**  
1322 Space Park Drive, Suite A155  
Houston, TX 77058  
281-470-0708  
Contact: Luis Hernandez

**Report Number: 5522-4158**  
**Report Date: October 19, 2022**  
**Collection Date: October 13, 2022**  
**Date Received: October 14, 2022**  
**Turn-around time: 72 Hour**

Job ID / Site: H22-0546 / Eastman Solutia-Trenton, MI / Phos WH & Fire Pump House

Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-243	N/A	N/A	N/A	N/A	79	5522-4158-20B	Yellow / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Brown base boarding throughout Phos Warehouse offices / Taken from northern office										
B-244	N/A	N/A	N/A	N/A	79	5522-4158-21A	Brown / Baseboard / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Brown base boarding throughout Phos Warehouse offices / Taken from main office										
						5522-4158-21B	Yellow / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
B-245	N/A	N/A	N/A	N/A	79	5522-4158-22A	Brown / Baseboard / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Brown base boarding throughout Phos Warehouse offices / Taken from eastern office										
						5522-4158-22B	Yellow / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material



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**Turn-around time: 72 Hour**

Job ID / Site: H22-0546 / Eastman Solutia-Trenton, MI / Phos WH & Fire Pump House

Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-246	N/A	N/A	N/A	N/A	80	5522-4158-23A	White / Wrap / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Pink interior wall and ceiling insulation throughout Phos Warehouse / Taken from west wall										
						5522-4158-23B	Orange / Insulation / Fibrous / Homogeneous	None Detected	Fibrous Glass 95%	Binding Material
Location: Pink interior wall and ceiling insulation throughout Phos Warehouse / Taken from east wall										
B-247	N/A	N/A	N/A	N/A	80	5522-4158-24A	White / Wrap / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Pink interior wall and ceiling insulation throughout Phos Warehouse / Taken from east wall										
						5522-4158-24B	Orange / Insulation / Fibrous / Homogeneous	None Detected	Fibrous Glass 95%	Binding Material
Location: Pink interior wall and ceiling insulation throughout Phos Warehouse / Taken from south wall										
B-248	N/A	N/A	N/A	N/A	80	5522-4158-25A	White / Wrap / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Pink interior wall and ceiling insulation throughout Phos Warehouse / Taken from south wall										



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Job ID / Site: H22-0546 / Eastman Solutia-Trenton, MI / Phos WH & Fire Pump House

Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-248	N/A	N/A	N/A	N/A	80	5522-4158-25B	Orange / Insulation / Fibrous / Homogeneous	None Detected	Fibrous Glass 95%	Binding Material
Location: Pink interior wall and ceiling insulation throughout Phos Warehouse / Taken from south wall										
B-249	N/A	N/A	N/A	N/A	80	5522-4158-26A	White / Wrap / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Pink interior wall and ceiling insulation throughout Phos Warehouse / Taken from north area ceiling										
						5522-4158-26B	Orange / Insulation / Fibrous / Homogeneous	None Detected	Fibrous Glass 95%	Binding Material
B-250	N/A	N/A	N/A	N/A	80	5522-4158-27A	White / Wrap / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Pink interior wall and ceiling insulation throughout Phos Warehouse / Taken from south area ceiling										
						5522-4158-27B	Orange / Insulation / Fibrous / Homogeneous	None Detected	Fibrous Glass 95%	Binding Material



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Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-251	N/A	N/A	N/A	N/A	81	5522-4158-28A	Light Grey / 12x12 Floor Tile / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Northwest office, white 12x12 floor tile / Taken from northwest corner										
						5522-4158-28B	Yellow,Black / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
B-252	N/A	N/A	N/A	N/A	81	5522-4158-29A	Light Grey / 12x12 Floor Tile / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Northwest office, white 12x12 floor tile / Taken from central office area										
						5522-4158-29B	Yellow,Black / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
B-253	N/A	N/A	N/A	N/A	81	5522-4158-30A	Light Grey / 12x12 Floor Tile / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Northwest office, white 12x12 floor tile / Taken from southeast corner										



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Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-253	N/A	N/A	N/A	N/A	81	5522-4158-30B	Yellow,Black / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Northwest office, white 12x12 floor tile / Taken from southeast corner										
B-254	N/A	N/A	N/A	N/A	82	5522-4158-31A	White / Paint / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Northwest office white wallboard system / Taken from north wall										
						5522-4158-31B	Brown,White / Wall Board / Fibrous / Homogeneous	None Detected	Cellulose 10%	Binding Material
B-255	N/A	N/A	N/A	N/A	82	5522-4158-32A	White / Paint / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Northwest office white wallboard system / Taken from southeast wall										
						5522-4158-32B	Brown,White / Wall Board / Fibrous / Homogeneous	None Detected	Cellulose 10%	Binding Material



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Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-256	N/A	N/A	N/A	N/A	82	5522-4158-33A	White / Paint / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Northwest office white wallboard system / Taken from south wall										
						5522-4158-33B	Brown,White / Wall Board / Fibrous / Homogeneous	None Detected	Cellulose 10%	Binding Material



## ASBESTOS BULK ANALYSIS REPORT

Date: October 21, 2022

Turnstone EH & S, Inc. (Houston)

Report: 5522-4221  
H22-0546 / Eastman Solutia / Trenton, MI /  
Building 718

This document shall be considered a duly signed original report of the results obtained from the analyses performed. All analyses are done within government guidelines and regulations.

A handwritten signature in black ink, appearing to read 'G.R. Simmons', is positioned above a horizontal line.

Gary R. Simmons  
Laboratory Manager

Lab Comments on Project: N/A

Analytical results and reports are generated by Apex Precision Analytical Services at the request of and for the use of the person or entity (client) named on such report. Result, reports or copies of same will not be released by Apex Precision Analytical Services to any third party without the written request from client. These results only represent the materials submitted. Supporting laboratory documentation is available upon request. This report cannot be used to represent conditions at any other location, date or time and does not imply that this space is free from these or any other contaminants. No responsibility or liability is assumed for the manner in which these results are used or interpreted. This must not be used to claim product endorsement by NVLAP or any government agency of the United States. Apex Precision Analytical Services reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified.



**Apex Precision Analytical Services. Inc.**

306 W. Edgewood Dr., Suite D  
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Houston, TX 77058  
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Contact: Luis Hernandez

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Report Date: October 21, 2022  
Collection Date: October 17, 2022  
Date Received: October 18, 2022  
Turn-around time: 72 Hour

Job ID / Site: H22-0546 / Eastman Solutia / Trenton, MI / Building 718

Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-279	N/A	N/A	N/A	N/A	110	5522-4221-01A	Green / 9x9 Floor Tile / Fibrous / Homogeneous	Chrysotile 3%	None Detected	Binding Material
Location: Green floor tile in shop offices, 9x9 / Taken from northwest corner										
						5522-4221-01B	Black,Off White / Mastic,Material / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Green floor tile in shop offices, 9x9 / Taken from northeast corner										
B-280	N/A	N/A	N/A	N/A	110	5522-4221-02A	Green / 9x9 Floor Tile / Fibrous / Homogeneous	Chrysotile 3%	None Detected	Binding Material
Location: Green floor tile in shop offices, 9x9 / Taken from northeast corner										
						5522-4221-02B	Black,Off White / Mastic,Material / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
B-281	N/A	N/A	N/A	N/A	110	5522-4221-03A	Green / 9x9 Floor Tile / Fibrous / Homogeneous	Chrysotile 3%	None Detected	Binding Material
Location: Green floor tile in shop offices, 9x9 / Taken from southeast corner										



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Job ID / Site: H22-0546 / Eastman Solutia / Trenton, MI / Building 718

Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-281	N/A	N/A	N/A	N/A	110	5522-4221-03B	Black, Off White / Mastic, Material / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Green floor tile in shop offices, 9x9 / Taken from southeast corner										
B-282	N/A	N/A	N/A	N/A	111	5522-4221-04	Off White, Tan / Wall Board / Fibrous / Homogeneous	None Detected	Cellulose 85%	Binding Material
Location: Wall boarding in shop offices / Taken from south wall										
B-283	N/A	N/A	N/A	N/A	111	5522-4221-05	Off White, Tan / Wall Board / Fibrous / Homogeneous	None Detected	Cellulose 85%	Binding Material
Location: Wall boarding in shop offices / Taken from west wall										
B-284	N/A	N/A	N/A	N/A	111	5522-4221-06	Off White, Tan / Wall Board / Fibrous / Homogeneous	None Detected	Cellulose 85%	Binding Material
Location: Wall boarding in shop offices / Taken from east wall										
B-285	N/A	N/A	N/A	N/A	112	5522-4221-07	White, Grey / 2x2 Ceiling Tile / Fibrous / Homogeneous	None Detected	Cellulose 30% Fibrous Glass 10%	Binding Material
Location: Ceiling tiles in shop office 2'x2' / Taken from west area										



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Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-286	N/A	N/A	N/A	N/A	112	5522-4221-08	White,Grey / 2x2 Ceiling Tile / Fibrous / Homogeneous	None Detected	Cellulose 30% Fibrous Glass 10%	Binding Material
Location: Ceiling tiles in shop office 2'x2' / Taken from east area										
B-287	N/A	N/A	N/A	N/A	112	5522-4221-09	White,Grey / 2x2 Ceiling Tile / Fibrous / Homogeneous	None Detected	Cellulose 30% Fibrous Glass 10%	Binding Material
Location: Ceiling tiles in shop office 2'x2' / Taken from south area										
B-288	N/A	N/A	N/A	N/A	113	5522-4221-10	Off White,Light Brown / Ceiling Tile / Fibrous / Homogeneous	None Detected	Cellulose 85%	Binding Material
Location: 12"x12", off white ceiling tile, above 2'x2' shop office ceiling tile / Taken from west area										
B-289	N/A	N/A	N/A	N/A	113	5522-4221-11	Off White,Light Brown / Ceiling Tile / Fibrous / Homogeneous	None Detected	Cellulose 85%	Binding Material
Location: 12"x12", off white ceiling tile, above 2'x2' shop office ceiling tile / Taken from east area										
B-290	N/A	N/A	N/A	N/A	113	5522-4221-12	Off White,Light Brown / Ceiling Tile / Fibrous / Homogeneous	None Detected	Cellulose 85%	Binding Material
Location: 12"x12", off white ceiling tile, above 2'x2' shop office ceiling tile / Taken from south area										



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Job ID / Site: H22-0546 / Eastman Solutia / Trenton, MI / Building 718

Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-291	N/A	N/A	N/A	N/A	114	5522-4221-13A	White,Silver / Material / Fibrous / Homogeneous	None Detected	Fibrous Glass 10%	Binding Material
Location: White covered wall insulation and ceiling insulation throughout maintenance shop / Taken from north wall										
						5522-4221-13B	Yellow / Insulation / Fibrous / Homogeneous	None Detected	Fibrous Glass 95%	Binding Material
Location: White covered wall insulation and ceiling insulation throughout maintenance shop / Taken from east wall										
B-292	N/A	N/A	N/A	N/A	114	5522-4221-14A	White,Silver / Material / Fibrous / Homogeneous	None Detected	Fibrous Glass 10%	Binding Material
Location: White covered wall insulation and ceiling insulation throughout maintenance shop / Taken from east wall										
						5522-4221-14B	Yellow / Insulation / Fibrous / Homogeneous	None Detected	Fibrous Glass 95%	Binding Material
B-293	N/A	N/A	N/A	N/A	114	5522-4221-15A	White,Silver / Material / Fibrous / Homogeneous	None Detected	Fibrous Glass 10%	Binding Material
Location: White covered wall insulation and ceiling insulation throughout maintenance shop / Taken from north area ceiling										



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Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-293	N/A	N/A	N/A	N/A	114	5522-4221-15B	Yellow / Insulation / Fibrous / Homogeneous	None Detected	Fibrous Glass 95%	Binding Material
Location: White covered wall insulation and ceiling insulation throughout maintenance shop / Taken from north area ceiling										
B-294	N/A	N/A	N/A	N/A	115	5522-4221-16	White,Grey / Brick, Mortar / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: White brick and mortar from various areas in shop / Taken from tower water room										
B-295	N/A	N/A	N/A	N/A	115	5522-4221-17	White,Grey / Brick, Mortar / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: White brick and mortar from various areas in shop / Taken from power room, north of tower water room, north wall										
B-296	N/A	N/A	N/A	N/A	115	5522-4221-18	White,Grey / Brick, Mortar / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: White brick and mortar from various areas in shop / Taken from power room, north of tower water room, south wall										
B-297	N/A	N/A	N/A	N/A	116	5522-4221-19	White, Yellow, Tan / Insulation / Fibrous / Homogeneous	None Detected	Fibrous Glass 95%	Binding Material
Location: White wrapped pipe in tower water room / Taken from center of pipe										



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Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-298	N/A	N/A	N/A	N/A	116	5522-4221-20	White, Yellow, Tan / Insulation / Fibrous / Homogeneous	None Detected	Fibrous Glass 95%	Binding Material
Location: White wrapped pipe in tower water room / Taken from north end of pipe										
B-299	N/A	N/A	N/A	N/A	116	5522-4221-21	White, Yellow, Tan / Insulation / Fibrous / Homogeneous	None Detected	Fibrous Glass 95%	Binding Material
Location: White wrapped pipe in tower water room / Taken from south end of pipe										
B-300	N/A	N/A	N/A	N/A	117	5522-4221-22A	Black / Mastic / Fibrous / Homogeneous	Chrysotile 10%	Fibrous Glass 10%	Binding Material
Location: Stipple jacketing over insulation of NAOH storage tank 2165 / Taken from east side of body										
						5522-4221-22B	Beige, Off White / Insulation / Fibrous / Homogeneous	Chrysotile 35%	None Detected	Binding Material
B-301	N/A	N/A	N/A	N/A	117	5522-4221-23A	Black / Mastic / Fibrous / Homogeneous	Chrysotile 10%	Fibrous Glass 10%	Binding Material
Location: Stipple jacketing over insulation of NAOH storage tank 2165 / Taken from west side of body										



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**Turn-around time: 72 Hour**

Job ID / Site: H22-0546 / Eastman Solutia / Trenton, MI / Building 718

Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-301	N/A	N/A	N/A	N/A	117	5522-4221-23B	Beige, Off White / Insulation / Fibrous / Homogeneous	Chrysotile 35%	None Detected	Binding Material
Location: Stipple jacketing over insulation of NAOH storage tank 2165 / Taken from west side of body										
B-302	N/A	N/A	N/A	N/A	117	5522-4221-24A	Black / Mastic / Fibrous / Homogeneous	Chrysotile 10%	Fibrous Glass 10%	Binding Material
Location: Stipple jacketing over insulation of NAOH storage tank 2165 / Taken from head of tank										
						5522-4221-24B	Beige, Off White / Insulation / Fibrous / Homogeneous	Chrysotile 35%	None Detected	Binding Material
B-303	N/A	N/A	N/A	N/A	118	5522-4221-25	Black, Silver / Roofing Material / Fibrous / Homogeneous	None Detected	Synthetic Fibrous Glass 5% 3%	Binding Material
Location: Black roofing material over tower water building / Taken from north side of roof										
B-304	N/A	N/A	N/A	N/A	118	5522-4221-26	Black, Silver / Roofing Material / Fibrous / Homogeneous	None Detected	Synthetic Fibrous Glass 5% 3%	Binding Material
Location: Black roofing material over tower water building / Taken from east side of roof										



**Apex Precision Analytical Services. Inc.**

306 W. Edgewood Dr., Suite D  
Friendswood, TX, 77546

**PLM (Bulk) - Asbestos Analysis Report - Visual ID**  
(EPA Method 600/R-93-116 Visual Area Estimation)

**Turnstone EH & S, Inc. (Houston)**  
1322 Space Park Drive, Suite A155  
Houston, TX 77058  
281-470-0708  
Contact: Luis Hernandez

**Report Number: 5522-4221**  
**Report Date: October 21, 2022**  
**Collection Date: October 17, 2022**  
**Date Received: October 18, 2022**  
**Turn-around time: 72 Hour**

Job ID / Site: H22-0546 / Eastman Solutia / Trenton, MI / Building 718

Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-305	N/A	N/A	N/A	N/A	118	5522-4221-27	Black, Silver / Roofing Material / Fibrous / Homogeneous	None Detected	Fibrous Glass 2%	Binding Material
Location: Black roofing material over tower water building / Taken from south side of roof										
B-306	N/A	N/A	N/A	N/A	119	5522-4221-28A	White / Material / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: White coating on bio-sphere 250 / Taken from north side of body										
						5522-4221-28B	Yellow / Foam / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
B-307	N/A	N/A	N/A	N/A	119	5522-4221-29A	White / Material / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: White coating on bio-sphere 250 / Taken from south side of body										
						5522-4221-29B	Yellow / Foam / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material



**Apex Precision Analytical Services. Inc.**

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Turnstone EH & S, Inc. (Houston)  
1322 Space Park Drive, Suite A155  
Houston, TX 77058  
281-470-0708  
Contact: Luis Hernandez

Report Number: 5522-4221  
Report Date: October 21, 2022  
Collection Date: October 17, 2022  
Date Received: October 18, 2022  
Turn-around time: 72 Hour

Job ID / Site: H22-0546 / Eastman Solutia / Trenton, MI / Building 718

Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-308	N/A	N/A	N/A	N/A	119	5522-4221-30A	White / Material / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: White coating on bio-sphere 250 / Taken from east side of body										
						5522-4221-30B	Yellow / Foam / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material



## ASBESTOS BULK ANALYSIS REPORT

Date: October 21, 2022

Turnstone EH & S, Inc. (Houston)

Report: 5522-4220  
H22-0546 / Eastman Solutia / Trenton, MI /  
Stones/#9 Building

This document shall be considered a duly signed original report of the results obtained from the analyses performed. All analyses are done within government guidelines and regulations.

A handwritten signature in black ink, appearing to read 'G.R. Simmons', is positioned above a horizontal line.

Gary R. Simmons  
Laboratory Manager

Lab Comments on Project: N/A

Analytical results and reports are generated by Apex Precision Analytical Services at the request of and for the use of the person or entity (client) named on such report. Result, reports or copies of same will not be released by Apex Precision Analytical Services to any third party without the written request from client. These results only represent the materials submitted. Supporting laboratory documentation is available upon request. This report cannot be used to represent conditions at any other location, date or time and does not imply that this space is free from these or any other contaminants. No responsibility or liability is assumed for the manner in which these results are used or interpreted. This must not be used to claim product endorsement by NVLAP or any government agency of the United States. Apex Precision Analytical Services reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified.



**Apex Precision Analytical Services. Inc.**

306 W. Edgewood Dr., Suite D  
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**PLM (Bulk) - Asbestos Analysis Report - Visual ID**  
(EPA Method 600/R-93-116 Visual Area Estimation)

**Turnstone EH & S, Inc. (Houston)**  
1322 Space Park Drive, Suite A155  
Houston, TX 77058  
281-470-0708  
Contact: Luis Hernandez

**Report Number: 5522-4220**  
**Report Date: October 21, 2022**  
**Collection Date: October 17, 2022**  
**Date Received: October 18, 2022**  
**Turn-around time: 72 Hour**

Job ID / Site: H22-0546 / Eastman Solutia / Trenton, MI / Stones/#9 Building

Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-257	N/A	N/A	N/A	N/A	104	5522-4220-01A	Grey / Floor Tile / Fibrous / Homogeneous	Chrysotile 2%	None Detected	Binding Material
Location: Building 9 stores, south offices, grey 9x9 floor tile / Taken from northwest area of south offices										
						5522-4220-01B	Black / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
B-258	N/A	N/A	N/A	N/A	104	5522-4220-02A	Grey / Floor Tile / Fibrous / Homogeneous	Chrysotile 2%	None Detected	Binding Material
Location: Building 9 stores, south offices, grey 9x9 floor tile / Taken from south offices hallway										
						5522-4220-02B	Black / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
B-259	N/A	N/A	N/A	N/A	104	5522-4220-03A	Grey / Floor Tile / Fibrous / Homogeneous	Chrysotile 2%	None Detected	Binding Material
Location: Building 9 stores, south offices, grey 9x9 floor tile / Taken from main office, South offices										



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Houston, TX 77058  
281-470-0708  
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Job ID / Site: H22-0546 / Eastman Solutia / Trenton, MI / Stones/#9 Building

Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-259	N/A	N/A	N/A	N/A	104	5522-4220-03B	Black / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Building 9 stores, south offices, grey 9x9 floor tile / Taken from main office, South offices										
B-260	N/A	N/A	N/A	N/A	105	5522-4220-04	Yellow / Insulation / Fibrous / Homogeneous	None Detected	Fibrous Glass 95%	Binding Material
Location: Wall insulation behind wall panels in south offices / Taken from east wall										
B-261	N/A	N/A	N/A	N/A	105	5522-4220-05	Yellow / Insulation / Fibrous / Homogeneous	None Detected	Fibrous Glass 95%	Binding Material
Location: Wall insulation behind wall panels in south offices / Taken from west wall										
B-262	N/A	N/A	N/A	N/A	105	5522-4220-06	Yellow / Insulation / Fibrous / Homogeneous	None Detected	Fibrous Glass 95%	Binding Material
Location: Wall insulation behind wall panels in south offices / Taken from north wall										
B-263	N/A	N/A	N/A	N/A	106	5522-4220-07A	Off White,Silver / Wrap / Fibrous / Homogeneous	None Detected	Cellulose 30% Fibrous Glass 5%	Binding Material
Location: South bank stores, condensate line and steam line / Taken from condensate line west end										



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Job ID / Site: H22-0546 / Eastman Solutia / Trenton, MI / Stones/#9 Building

Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-263	N/A	N/A	N/A	N/A	106	5522-4220-07B	Yellow / Insulation / Fibrous / Homogeneous	None Detected	Fibrous Glass 95%	Binding Material
Location: South bank stores, condensate line and steam line / Taken from condensate line west end										
B-264	N/A	N/A	N/A	N/A	106	5522-4220-08A	Off White,Silver / Wrap / Fibrous / Homogeneous	None Detected	Cellulose 30% Fibrous Glass 5%	Binding Material
Location: South bank stores, condensate line and steam line / Taken from condensate line east end										
						5522-4220-08B	Yellow / Insulation / Fibrous / Homogeneous	None Detected	Fibrous Glass 95%	Binding Material
B-265	N/A	N/A	N/A	N/A	106	5522-4220-09A	Off White,Silver / Wrap / Fibrous / Homogeneous	None Detected	Cellulose 30% Fibrous Glass 5%	Binding Material
Location: South bank stores, condensate line and steam line / Taken from steam line north end										
						5522-4220-09B	Yellow / Insulation / Fibrous / Homogeneous	None Detected	Fibrous Glass 95%	Binding Material



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281-470-0708  
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**Turn-around time: 72 Hour**

Job ID / Site: H22-0546 / Eastman Solutia / Trenton, MI / Stones/#9 Building

Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-266	N/A	N/A	N/A	N/A	107	5522-4220-10	Light Brown, Off White / Material / Fibrous / Homogeneous	None Detected	Cellulose 90%	Binding Material
Location: Off white, wall and ceiling of north storage building / Taken from north wall										
B-267	N/A	N/A	N/A	N/A	107	5522-4220-11	Light Brown, Off White / Material / Fibrous / Homogeneous	None Detected	Cellulose 90%	Binding Material
Location: Off white, wall and ceiling of north storage building / Taken from south wall										
B-268	N/A	N/A	N/A	N/A	107	5522-4220-12	Light Brown, Off White / Material / Fibrous / Homogeneous	None Detected	Cellulose 90%	Binding Material
Location: Off white, wall and ceiling of north storage building / Taken from east wall										
B-269	N/A	N/A	N/A	N/A	107	5522-4220-13	Light Brown, Off White / Material / Fibrous / Homogeneous	None Detected	Cellulose 90%	Binding Material
Location: Off white, wall and ceiling of north storage building / Taken from west wall										
B-270	N/A	N/A	N/A	N/A	107	5522-4220-14	Light Brown, Off White / Material / Fibrous / Homogeneous	None Detected	Cellulose 90%	Binding Material
Location: Off white, wall and ceiling of north storage building / Taken from north end of ceiling										



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Houston, TX 77058  
281-470-0708  
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**Turn-around time: 72 Hour**

Job ID / Site: H22-0546 / Eastman Solutia / Trenton, MI / Stones/#9 Building

Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-271	N/A	N/A	N/A	N/A	107	5522-4220-15	Off White / Material / Fibrous / Homogeneous	None Detected	Cellulose 90%	Binding Material
Location: Off white, wall and ceiling of north storage building / Taken from south end of ceiling										
B-272	N/A	N/A	N/A	N/A	107	5522-4220-16A	Off White / Material / Fibrous / Homogeneous	None Detected	Cellulose 90%	Binding Material
Location: Off white, wall and ceiling of north storage building / Taken from east end of ceiling										
						5522-4220-16B	Yellow / Foam / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
B-273	N/A	N/A	N/A	N/A	108	5522-4220-17A	Off White / Wrap / Fibrous / Homogeneous	None Detected	Cellulose 90%	Binding Material
Location: Off white, condensate and steam line in north storage / Taken from condensate line east end										
						5522-4220-17B	White / Insulation / Fibrous / Homogeneous	Amosite 30%	None Detected	Binding Material



**PLM (Bulk) - Asbestos Analysis Report - Visual ID**  
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**Turnstone EH & S, Inc. (Houston)**  
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Houston, TX 77058  
281-470-0708  
Contact: Luis Hernandez

**Report Number: 5522-4220**  
**Report Date: October 21, 2022**  
**Collection Date: October 17, 2022**  
**Date Received: October 18, 2022**  
**Turn-around time: 72 Hour**

Job ID / Site: H22-0546 / Eastman Solutia / Trenton, MI / Stones/#9 Building

Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-274	N/A	N/A	N/A	N/A	108	5522-4220-18A	Off White / Wrap / Fibrous / Homogeneous	None Detected	Cellulose 90%	Binding Material
Location: Off white, condensate and steam line in north storage / Taken from steam line east end										
						5522-4220-18B	White / Insulation / Fibrous / Homogeneous	Amosite 30%	None Detected	Binding Material
B-275	N/A	N/A	N/A	N/A	108	5522-4220-19A	Off White / Wrap / Fibrous / Homogeneous	None Detected	Cellulose 90%	Binding Material
Location: Off white, condensate and steam line in north storage / Taken from steam line west end										
						5522-4220-19B	White / Insulation / Fibrous / Homogeneous	Amosite 30%	None Detected	Binding Material
B-276	N/A	N/A	N/A	N/A	109	5522-4220-20	Grey / Material / Fibrous / Homogeneous	Chrysotile 2%	None Detected	Binding Material
Location: Interior window caulking of north bay / Taken from west window										



**Apex Precision Analytical Services. Inc.**

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281-470-0708  
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Turn-around time: 72 Hour

Job ID / Site: H22-0546 / Eastman Solutia / Trenton, MI / Stones/#9 Building

Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-277	N/A	N/A	N/A	N/A	109	5522-4220-21	White / Material / Fibrous / Homogeneous	Chrysotile 2%	None Detected	Binding Material
Location: Interior window caulking of north bay / Taken from west window										
B-278	N/A	N/A	N/A	N/A	109	5522-4220-22	Grey / Material / Fibrous / Homogeneous	Chrysotile 2%	None Detected	Binding Material
Location: Interior window caulking of north bay / Taken from west door										

Turnstone  
EH&S, Inc.  
Chain of  
Custody



**TURNSTONE**  
ENVIRONMENTAL HEALTH AND SAFETY INC.

1322 Space Park Dr, Suite A-155  
Houston, Texas 77058

5522-4220

Project # / Name :		H22-0546- Eastman Solutia - Trenton MI - Stores/#9 Bldg		
<b>TURNAROUND TIME</b>				
<input type="checkbox"/> Same Day		<input type="checkbox"/> 24 Hours		<input checked="" type="checkbox"/> Standard [3 Days]
<small>(NOTE: All Turnaround times are based on the date / time the sample is received by the Laboratory)</small>				
<input type="checkbox"/> Apply Open Lab Fees				
Sample Date	Number of Samples	Type of Sample	Contact Person:	Phone #:
10-17-22	22	Bulk	Luis Hernandez	832-946-3602
<b>Special Instructions</b>				
Email results to <a href="mailto:luis.hernandez@turnstoneehs.com">luis.hernandez@turnstoneehs.com</a> & <a href="mailto:michael.ortiz@turnstoneehs.com">michael.ortiz@turnstoneehs.com</a> / write sample description & location on sample results				

Sample Number	Sample Description / Location	Analyte	Time (min.)	Volume L or ml
B-257	See Attached Data Sheet	Asbestos		
B-278				

Date/ Time:	Sampled By:	Relinquished By:	Accepted by:
	John Pocar		amanda [signature]
			10/18/22 0945

**\*\* LAB USE ONLY \*\***

Lab Ref No: \_\_\_\_\_

Analyst: \_\_\_\_\_

## ASBESTOS BULK ANALYSIS REPORT

Date: October 25, 2022

Turnstone EH & S, Inc. (Houston)

Report: 5522-4256  
H22-0546 / Eastman Solutia / Trenton, MI /  
Chiller/Resin Storage

This document shall be considered a duly signed original report of the results obtained from the analyses performed. All analyses are done within government guidelines and regulations.

A handwritten signature in black ink, appearing to read 'G.R. Simmons', is positioned above a horizontal line.

Gary R. Simmons  
Laboratory Manager

Lab Comments on Project: N/A

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**Turnstone EH & S, Inc. (Houston)**  
1322 Space Park Drive, Suite A155  
Houston, TX 77058  
281-470-0708  
Contact: Luis Hernandez

**Report Number: 5522-4256**  
**Report Date: October 25, 2022**  
**Collection Date: October 18, 2022**  
**Date Received: October 20, 2022**  
**Turn-around time: 72 Hour**

Job ID / Site: H22-0546 / Eastman Solutia / Trenton, MI / Chiller/Resin Storage

Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
P-58	N/A	N/A	N/A	N/A	120	5522-4256-01A	Off White / Material / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Body shell and piping of TA-526 Tank / Taken from pipe to tank										
						5522-4256-01B	Black / Foam / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
P-59	N/A	N/A	N/A	N/A	120	5522-4256-02A	Off White / Material / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Body shell and piping of TA-526 Tank / Taken from pipe to bottom tank										
						5522-4256-02B	Black / Foam / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
P-60	N/A	N/A	N/A	N/A	120	5522-4256-03A	Off White / Material / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Body shell and piping of TA-526 Tank / Taken from body										



**PLM (Bulk) - Asbestos Analysis Report - Visual ID**  
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**Report Number: 5522-4256**  
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Job ID / Site: H22-0546 / Eastman Solutia / Trenton, MI / Chiller/Resin Storage

Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
P-60	N/A	N/A	N/A	N/A	120	5522-4256-03B	Black / Foam / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Body shell and piping of TA-526 Tank / Taken from body										
P-61	N/A	N/A	N/A	N/A	121	5522-4256-04	Black / Foam Glass / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: White wrapped piping throughout chiller building / Taken from D-Limonene line, west										
P-62	N/A	N/A	N/A	N/A	121	5522-4256-05	Black / Foam Glass / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: White wrapped piping throughout chiller building / Taken from D-Limonene line, north										
P-63	N/A	N/A	N/A	N/A	121	5522-4256-06	Black / Foam Glass / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: White wrapped piping throughout chiller building / Taken from D-Limonene line, east										
P-64	N/A	N/A	N/A	N/A	122	5522-4256-07A	Off White,Silver / Wrap / Fibrous / Homogeneous	None Detected	Cellulose 30% Fibrous Glass 5%	Binding Material
Location: Wall insulation throughout chiller building / Taken from north wall										



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Turn-around time: 72 Hour

Job ID / Site: H22-0546 / Eastman Solutia / Trenton, MI / Chiller/Resin Storage

Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
P-64	N/A	N/A	N/A	N/A	122	5522-4256-07B	Brown / Insulation / Fibrous / Homogeneous	None Detected	Fibrous Glass 95%	Binding Material
Location: Wall insulation throughout chiller building / Taken from north wall										
P-65	N/A	N/A	N/A	N/A	122	5522-4256-08A	Off White,Silver / Wrap / Fibrous / Homogeneous	None Detected	Cellulose 30% Fibrous Glass 5%	Binding Material
Location: Wall insulation throughout chiller building / Taken from south wall										
						5522-4256-08B	Brown / Insulation / Fibrous / Homogeneous	None Detected	Fibrous Glass 95%	Binding Material
P-66	N/A	N/A	N/A	N/A	122	5522-4256-09A	Off White,Silver / Wrap / Fibrous / Homogeneous	None Detected	Cellulose 30% Fibrous Glass 5%	Binding Material
Location: Wall insulation throughout chiller building / Taken from west wall										
						5522-4256-09B	Brown / Insulation / Fibrous / Homogeneous	None Detected	Fibrous Glass 95%	Binding Material



**PLM (Bulk) - Asbestos Analysis Report - Visual ID**  
(EPA Method 600/R-93-116 Visual Area Estimation)

**Turnstone EH & S, Inc. (Houston)**  
1322 Space Park Drive, Suite A155  
Houston, TX 77058  
281-470-0708  
Contact: Luis Hernandez

**Report Number: 5522-4256**  
**Report Date: October 25, 2022**  
**Collection Date: October 18, 2022**  
**Date Received: October 20, 2022**  
**Turn-around time: 72 Hour**

Job ID / Site: H22-0546 / Eastman Solutia / Trenton, MI / Chiller/Resin Storage

Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
P-67	N/A	N/A	N/A	N/A	123	5522-4256-10	White, Off White / Material / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: White brick and mortar of nitrogen building / Taken by overhead door										
P-68	N/A	N/A	N/A	N/A	123	5522-4256-11	White, Off White / Material / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: White brick and mortar of nitrogen building / Taken at south wall										
P-69	N/A	N/A	N/A	N/A	123	5522-4256-12	White, Off White / Material / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: White brick and mortar of nitrogen building / Taken at north wall										
P-70	N/A	N/A	N/A	N/A	124	5522-4256-13A	White / Texture, Joint Compound / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: MCC-7 building, wallboard cream / Taken from north wall										
						5522-4256-13B	White / Joint Tape / Fibrous / Homogeneous	None Detected	Fibrous Glass 95%	Binding Material



**Apex Precision Analytical Services. Inc.**

306 W. Edgewood Dr., Suite D  
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Job ID / Site: H22-0546 / Eastman Solutia / Trenton, MI / Chiller/Resin Storage

Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
P-70	N/A	N/A	N/A	N/A	124	5522-4256-13C	Brown,White / Wall Board / Fibrous / Homogeneous	None Detected	Cellulose 10% Fibrous Glass 2%	Binding Material
Location: MCC-7 building, wallboard cream / Taken from north wall										
P-71	N/A	N/A	N/A	N/A	124	5522-4256-14A	White / Compound / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: MCC-7 building, wallboard cream / Taken from south wall										
						5522-4256-14B	Brown,White / Wall Board / Fibrous / Homogeneous	None Detected	Cellulose 10% Fibrous Glass 2%	Binding Material
P-72	N/A	N/A	N/A	N/A	124	5522-4256-15A	White / Texture / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: MCC-7 building, wallboard cream / Taken from east wall										
						5522-4256-15B	Brown,White / Wall Board / Fibrous / Homogeneous	None Detected	Cellulose 10% Fibrous Glass 2%	Binding Material



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Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
P-73	N/A	N/A	N/A	N/A	125	5522-4256-16A	Grey / Baseboard / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Grey base boarding throughout MCC-7 / Taken from west wall										
						5522-4256-16B	Yellow / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Grey base boarding throughout MCC-7 / Taken from east wall										
P-74	N/A	N/A	N/A	N/A	125	5522-4256-17A	Grey / Baseboard / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Grey base boarding throughout MCC-7 / Taken from east wall										
						5522-4256-17B	Yellow / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
P-75	N/A	N/A	N/A	N/A	125	5522-4256-18A	Grey / Baseboard / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Grey base boarding throughout MCC-7 / Taken from north wall										



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Job ID / Site: H22-0546 / Eastman Solutia / Trenton, MI / Chiller/Resin Storage

Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
P-75	N/A	N/A	N/A	N/A	125	5522-4256-18B	Yellow / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Grey base boarding throughout MCC-7 / Taken from north wall										
P-76	N/A	N/A	N/A	N/A	126	5522-4256-19	Red,Grey / Material / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Brick and mortar from MCC-7 and pump room buildings / Taken from pump room wall										
P-77	N/A	N/A	N/A	N/A	126	5522-4256-20	Red,Grey / Material / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Brick and mortar from MCC-7 and pump room buildings / Taken from MCC-7 north wall										
P-78	N/A	N/A	N/A	N/A	126	5522-4256-21	Red,Grey / Material / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Brick and mortar from MCC-7 and pump room buildings / Taken from MCC-7 south wall										
P-79	N/A	N/A	N/A	N/A	127	5522-4256-22	Black,Silver / Mastic,Material / Fibrous / Homogeneous	None Detected	Cellulose 3% Fibrous Glass 10%	Binding Material
Location: Black mastic on heads of southwest facility tanks / Taken from top of head of tank, 1 <sup>st</sup>										



5522-4256

<b>Project # / Name :</b>	H22-0549 - Eastman Sok-tia - Trenton MI - Chillon/ Resin Storage.			
<b>TURNAROUND TIME</b>				
<input type="checkbox"/> Same Day <input type="checkbox"/> 24 Hours <input checked="" type="checkbox"/> Standard [3 Days] <input type="checkbox"/> Apply Open Lab Fees <small>(NOTE: All Turnaround times are based on the date / time the sample is received by the Laboratory)</small>				
<b>Sample Date</b>	<b>Number of Samples</b>	<b>Type of Sample</b>	<b>Contact Person:</b>	<b>Phone #:</b>
10.18.22	60	Bulk	Luis Hernandez	832-946-3602
<b>Special Instructions</b>				
Email results to <a href="mailto:luis.hernandez@turnstoneehs.com">luis.hernandez@turnstoneehs.com</a> & <a href="mailto:michael.ortiz@turnstoneehs.com">michael.ortiz@turnstoneehs.com</a> / write sample description & location on sample results				

Sample Number	Sample Description / Location	Analyte	Time (min.)	Volume L or ml
P-58	See Attached	Asbestos	↘	
↓	Data Sheet	✓		
P-117				

<b>Date/ Time:</b>	<b>Sampled By:</b>	<b>Relinquished By:</b>	<b>Accepted by:</b>
	John Powers	John Powers	<i>[Signature]</i>
			10/20/22 0930

## ASBESTOS BULK ANALYSIS REPORT

Date: October 25, 2022

Turnstone EH & S, Inc. (Houston)

Report: 5522-4255  
H22-0546 / Eastman Solutia / Butvar Bldg

This document shall be considered a duly signed original report of the results obtained from the analyses performed. All analyses are done within government guidelines and regulations.

A handwritten signature in black ink, appearing to read 'G.R. Simmons', is positioned above a horizontal line.

Gary R. Simmons  
Laboratory Manager

Lab Comments on Project: N/A

Analytical results and reports are generated by Apex Precision Analytical Services at the request of and for the use of the person or entity (client) named on such report. Result, reports or copies of same will not be released by Apex Precision Analytical Services to any third party without the written request from client. These results only represent the materials submitted. Supporting laboratory documentation is available upon request. This report cannot be used to represent conditions at any other location, date or time and does not imply that this space is free from these or any other contaminants. No responsibility or liability is assumed for the manner in which these results are used or interpreted. This must not be used to claim product endorsement by NVLAP or any government agency of the United States. Apex Precision Analytical Services reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified.



**Apex Precision Analytical Services. Inc.**

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**Turnstone EH & S, Inc. (Houston)**  
1322 Space Park Drive, Suite A155  
Houston, TX 77058  
281-470-0708  
Contact: Luis Hernandez

**Report Number: 5522-4255**  
**Report Date: October 25, 2022**  
**Collection Date: October 19, 2022**  
**Date Received: October 20, 2022**  
**Turn-around time: 72 Hour**

Job ID / Site: H22-0546 / Eastman Solutia / Butvar Bldg

Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-309	N/A	N/A	N/A	N/A	140	5522-4255-01A	Off White,Black / Mastic Wrap / Fibrous / Homogeneous	Chrysotile 5%	None Detected	Binding Material
Location: Black/grey mastic on 12" line off TA-171 and TA-172 / Taken from horizontal to TA-172										
						5522-4255-01B	Off White / Insulation / Fibrous / Homogeneous	Chrysotile 15% Amosite 15%	None Detected	Binding Material
B-310	N/A	N/A	N/A	N/A	140	5522-4255-02A	Off White,Black / Mastic Wrap / Fibrous / Homogeneous	Chrysotile 5%	None Detected	Binding Material
Location: Black/grey mastic on 12" line off TA-171 and TA-172 / Taken from elbow										
						5522-4255-02B	Off White / Insulation / Fibrous / Homogeneous	Chrysotile 15% Amosite 15%	None Detected	Binding Material
B-311	N/A	N/A	N/A	N/A	140	5522-4255-03A	Off White,Black / Mastic Wrap / Fibrous / Homogeneous	Chrysotile 5%	None Detected	Binding Material
Location: Black/grey mastic on 12" line off TA-171 and TA-172 / Taken from horizontal to TA-171										



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Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-311	N/A	N/A	N/A	N/A	140	5522-4255-03B	Off White / Insulation / Fibrous / Homogeneous	Chrysotile 15% Amosite 15%	None Detected	Binding Material
Location: Black/grey mastic on 12" line off TA-171 and TA-172 / Taken from horizontal to TA-171										
B-312	N/A	N/A	N/A	N/A	141	5522-4255-04	Purple / Foam / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: 2 <sup>nd</sup> deck, south side of building, exchanger piping / Taken from east side of exchanger										
B-313	N/A	N/A	N/A	N/A	141	5522-4255-05A	Off White,Silver / Wrap / Fibrous / Homogeneous	None Detected	Cellulose 20% Fibrous Glass 5%	Binding Material
Location: 2 <sup>nd</sup> deck, south side of building, exchanger piping / Taken from horizontal run										
						5522-4255-05B	Purple / Foam / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
B-314	N/A	N/A	N/A	N/A	141	5522-4255-06A	Off White,Silver / Wrap / Fibrous / Homogeneous	None Detected	Cellulose 20% Fibrous Glass 5%	Binding Material
Location: 2 <sup>nd</sup> deck, south side of building, exchanger piping / Taken from west side of exchanger										



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Job ID / Site: H22-0546 / Eastman Solutia / Butvar Bldg

Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-314	N/A	N/A	N/A	N/A	141	5522-4255-06B	Purple / Foam / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: 2 <sup>nd</sup> deck, south side of building, exchanger piping / Taken from west side of exchanger										
B-315	N/A	N/A	N/A	N/A	142	5522-4255-07A	Black / Mastic,Material / Fibrous / Homogeneous	Chrysotile 10%	None Detected	Binding Material
Location: Grey wrapped 4" line from TA-172 to Butvar Building / Taken from TA-172 connection										
						5522-4255-07B	White / Insulation / Fibrous / Homogeneous	Chrysotile 15% Amosite 15%	None Detected	Binding Material
B-316	N/A	N/A	N/A	N/A	142	5522-4255-08A	Black / Mastic,Material / Fibrous / Homogeneous	Chrysotile 10%	None Detected	Binding Material
Location: Grey wrapped 4" line from TA-172 to Butvar Building / Taken from vertical run										
						5522-4255-08B	White / Insulation / Fibrous / Homogeneous	Chrysotile 15% Amosite 15%	None Detected	Binding Material



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Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-317	N/A	N/A	N/A	N/A	142	5522-4255-09A	Black / Mastic,Material / Fibrous / Homogeneous	Chrysotile 10%	None Detected	Binding Material
Location: Grey wrapped 4" line from TA-172 to Butvar Building / Taken from area to building										
						5522-4255-09B	White / Insulation / Fibrous / Homogeneous	Chrysotile 15% Amosite 15%	None Detected	Binding Material
B-318	N/A	N/A	N/A	N/A	143	5522-4255-10A	Silver,Black / Mastic,Material / Fibrous / Homogeneous	Chrysotile 10%	None Detected	Binding Material
Location: Gelva varnish line, 1 <sup>st</sup> deck travels from deck to 3rd floor building / Taken at deck level										
						5522-4255-10B	Grey / Insulation / Fibrous / Homogeneous	Amosite 30%	None Detected	Binding Material
B-319	N/A	N/A	N/A	N/A	143	5522-4255-11A	Silver,Black / Mastic,Material / Fibrous / Homogeneous	Chrysotile 10%	None Detected	Binding Material
Location: Gelva varnish line, 1 <sup>st</sup> deck travels from deck to 3rd floor building / Taken at vertical run										



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B-319	N/A	N/A	N/A	N/A	143	5522-4255-11B	Grey / Insulation / Fibrous / Homogeneous	Amosite 30%	None Detected	Binding Material
Location: Gelva varnish line, 1 <sup>st</sup> deck travels from deck to 3rd floor building / Taken at vertical run										
B-320	N/A	N/A	N/A	N/A	143	5522-4255-12A	Silver,Black / Mastic,Material / Fibrous / Homogeneous	Chrysotile 10%	None Detected	Binding Material
Location: Gelva varnish line, 1 <sup>st</sup> deck travels from deck to 3rd floor building / Taken at building entry										
						5522-4255-12B	Grey / Insulation / Fibrous / Homogeneous	Amosite 30%	None Detected	Binding Material
B-321	N/A	N/A	N/A	N/A	144	5522-4255-13A	White / Mastic,Material / Fibrous / Homogeneous	None Detected	Cellulose 2%	Binding Material
Location: HP steam line, first deck to 2 <sup>nd</sup> floor Butvar building / Taken at decking										
						5522-4255-13B	Off White / Insulation / Fibrous / Homogeneous	Chrysotile 25% Amosite 5%	None Detected	Binding Material



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B-322	N/A	N/A	N/A	N/A	144	5522-4255-14A	White / Mastic,Material / Fibrous / Homogeneous	None Detected	Cellulose 2%	Binding Material
Location: HP steam line, first deck to 2 <sup>nd</sup> floor Butvar building / Taken at horizontal along building										
						5522-4255-14B	Brown,Black / Mastic,Material / Fibrous / Homogeneous	Chrysotile 10%	None Detected	Binding Material
						5522-4255-14C	Grey / Insulation / Fibrous / Homogeneous	Chrysotile 20% Amosite 10%	None Detected	Binding Material
B-323	N/A	N/A	N/A	N/A	144	5522-4255-15A	Brown,Black / Mastic,Material / Fibrous / Homogeneous	Chrysotile 10%	None Detected	Binding Material
Location: HP steam line, first deck to 2 <sup>nd</sup> floor Butvar building / Taken at building entry										
						5522-4255-15B	Off White / Insulation / Fibrous / Homogeneous	Chrysotile 20% Amosite 10%	None Detected	Binding Material



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Job ID / Site: H22-0546 / Eastman Solutia / Butvar Bldg

Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-324	N/A	N/A	N/A	N/A	145	5522-4255-16	Black / Foam / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Piping on roof of Butvar building / Taken from east side exchanger piping										
B-325	N/A	N/A	N/A	N/A	145	5522-4255-17	Black / Foam / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Piping on roof of Butvar building / Taken from central pipe run										
B-326	N/A	N/A	N/A	N/A	145	5522-4255-18	Black / Foam / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Piping on roof of Butvar building / Taken from west side exchanger piping										
B-327	N/A	N/A	N/A	N/A	146	5522-4255-19	White / Insulation / Fibrous / Homogeneous	Chrysotile 30%	None Detected	Binding Material
Location: LP steam line, southeast corner 1 <sup>st</sup> roof of Butvar building / Taken from roof level										
B-328	N/A	N/A	N/A	N/A	146	5522-4255-20	White / Insulation / Fibrous / Homogeneous	Chrysotile 30%	None Detected	Binding Material
Location: LP steam line, southeast corner 1 <sup>st</sup> roof of Butvar building / Taken from vertical run										



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**Collection Date: October 19, 2022**  
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**Turn-around time: 72 Hour**

Job ID / Site: H22-0546 / Eastman Solutia / Butvar Bldg

Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-329	N/A	N/A	N/A	N/A	146	5522-4255-21	White / Insulation / Fibrous / Homogeneous	Chrysotile 30%	None Detected	Binding Material
Location: LP steam line, southeast corner 1 <sup>st</sup> roof of Butvar building / Taken from elbow										
B-330	N/A	N/A	N/A	N/A	147	5522-4255-22	Silver,Black / Roofing Material / Fibrous / Homogeneous	None Detected	Synthetic 10%	Binding Material
Location: Roofing materials from 1 <sup>st</sup> and 2 <sup>nd</sup> roof of Butvar building / Taken from southeast corner of 1 <sup>st</sup> roof										
B-331	N/A	N/A	N/A	N/A	147	5522-4255-23	Silver,Black / Roofing Material / Fibrous / Homogeneous	None Detected	Synthetic 10%	Binding Material
Location: Roofing materials from 1 <sup>st</sup> and 2 <sup>nd</sup> roof of Butvar building / Taken from northeast corner of 1 <sup>st</sup> roof										
B-332	N/A	N/A	N/A	N/A	147	5522-4255-24	Silver,Black / Roofing Material / Fibrous / Homogeneous	None Detected	Synthetic 10%	Binding Material
Location: Roofing materials from 1 <sup>st</sup> and 2 <sup>nd</sup> roof of Butvar building / Taken from 2 <sup>nd</sup> roof										
B-333	N/A	N/A	N/A	N/A	148	5522-4255-25	White / Insulation / Fibrous / Homogeneous	Chrysotile 30% Amosite 5%	None Detected	Binding Material
Location: Drain lines north side 3 <sup>rd</sup> floor, Butvar 5ft south of VE-212 / Taken from floor level of drain										



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(EPA Method 600/R-93-116 Visual Area Estimation)

**Turnstone EH & S, Inc. (Houston)**  
1322 Space Park Drive, Suite A155  
Houston, TX 77058  
281-470-0708  
Contact: Luis Hernandez

**Report Number: 5522-4255**  
**Report Date: October 25, 2022**  
**Collection Date: October 19, 2022**  
**Date Received: October 20, 2022**  
**Turn-around time: 72 Hour**

Job ID / Site: H22-0546 / Eastman Solutia / Butvar Bldg

Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-334	N/A	N/A	N/A	N/A	148	5522-4255-26	White / Insulation / Fibrous / Homogeneous	Chrysotile 30% Amosite 5%	None Detected	Binding Material
Location: Drain lines north side 3 <sup>rd</sup> floor, Butvar 5ft south of VE-212 / Taken from drain 3ft elevation										
B-335	N/A	N/A	N/A	N/A	148	5522-4255-27	White / Insulation / Fibrous / Homogeneous	Chrysotile 30% Amosite 5%	None Detected	Binding Material
Location: Drain lines north side 3 <sup>rd</sup> floor, Butvar 5ft south of VE-212 / Taken from drain 5ft elevation										
B-336	N/A	N/A	N/A	N/A	149	5522-4255-28A	Yellow / Wrap / Fibrous / Homogeneous	None Detected	Cellulose 30%	Binding Material
Location: Yellow painted steam line throughout Butvar, visible west side 3 <sup>rd</sup> floor / Taken from line at entryway										
						5522-4255-28B	White / Insulation / Fibrous / Homogeneous	Chrysotile 20% Amosite 10%	None Detected	Binding Material
B-337	N/A	N/A	N/A	N/A	149	5522-4255-29A	Yellow / Wrap / Fibrous / Homogeneous	None Detected	Cellulose 30%	Binding Material
Location: Yellow painted steam line throughout Butvar, visible west side 3 <sup>rd</sup> floor / Taken from vertical run, 3ft elevation										



**Apex Precision Analytical Services. Inc.**

306 W. Edgewood Dr., Suite D  
Friendswood, TX, 77546

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Turnstone EH & S, Inc. (Houston)  
1322 Space Park Drive, Suite A155  
Houston, TX 77058  
281-470-0708  
Contact: Luis Hernandez

Report Number: 5522-4255  
Report Date: October 25, 2022  
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Date Received: October 20, 2022  
Turn-around time: 72 Hour

Job ID / Site: H22-0546 / Eastman Solutia / Butvar Bldg

Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-337	N/A	N/A	N/A	N/A	149	5522-4255-29B	White / Insulation / Fibrous / Homogeneous	Chrysotile 20% Amosite 10%	None Detected	Binding Material
Location: Yellow painted steam line throughout Butvar, visible west side 3 <sup>rd</sup> floor / Taken from vertical run, 3ft elevation										
B-338	N/A	N/A	N/A	N/A	149	5522-4255-30A	Yellow / Wrap / Fibrous / Homogeneous	None Detected	Cellulose 30%	Binding Material
Location: Yellow painted steam line throughout Butvar, visible west side 3 <sup>rd</sup> floor / Taken from vertical run, 5ft elevation										
						5522-4255-30B	White / Insulation / Fibrous / Homogeneous	Chrysotile 20% Amosite 10%	None Detected	Binding Material
B-339	N/A	N/A	N/A	N/A	150	5522-4255-31A	Green / Wrap / Fibrous / Homogeneous	None Detected	Cellulose 30%	Binding Material
Location: Green painted city water line, 3 <sup>rd</sup> floor Butvar, 5ft east of Butvar buffer tank / Taken from valve wrap										
						5522-4255-31B	Off White / Insulation / Fibrous / Homogeneous	Chrysotile 5%	None Detected	Binding Material



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Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-340	N/A	N/A	N/A	N/A	150	5522-4255-32A	Green / Wrap / Fibrous / Homogeneous	None Detected	Cellulose 30%	Binding Material
Location: Green painted city water line, 3 <sup>rd</sup> floor Butvar, 5ft east of Butvar buffer tank / Taken from under valve										
						5522-4255-32B	Off White / Insulation / Fibrous / Homogeneous	Chrysotile 5%	None Detected	Binding Material
B-341	N/A	N/A	N/A	N/A	150	5522-4255-33A	Green / Wrap / Fibrous / Homogeneous	None Detected	Cellulose 30%	Binding Material
Location: Green painted city water line, 3 <sup>rd</sup> floor Butvar, 5ft east of Butvar buffer tank / Taken above valve										
						5522-4255-33B	Off White / Insulation / Fibrous / Homogeneous	Chrysotile 5%	None Detected	Binding Material
B-342	N/A	N/A	N/A	N/A	151	5522-4255-34A	Orange / Wrap / Fibrous / Homogeneous	None Detected	Cellulose 30%	Binding Material
Location: Orange painted line, throughout Butvar building, visible 3 <sup>rd</sup> floor, east of Butvar buffer tank / Taken from end above entry door										



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 Houston, TX 77058  
 281-470-0708  
 Contact: Luis Hernandez

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Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-342	N/A	N/A	N/A	N/A	151	5522-4255-34B	Grey / Insulation / Fibrous / Homogeneous	None Detected	Cellulose 2% Fibrous Glass 10%	Binding Material
Location: Orange painted line, throughout Butvar building, visible 3 <sup>rd</sup> floor, east of Butvar buffer tank / Taken from end above entry door										
B-343	N/A	N/A	N/A	N/A	151	5522-4255-35A	Orange / Wrap / Fibrous / Homogeneous	None Detected	Cellulose 30%	Binding Material
Location: Orange painted line, throughout Butvar building, visible 3 <sup>rd</sup> floor, east of Butvar buffer tank / Taken from horizontal run										
						5522-4255-35B	Grey / Insulation / Fibrous / Homogeneous	None Detected	Cellulose 2% Fibrous Glass 10%	Binding Material
B-344	N/A	N/A	N/A	N/A	151	5522-4255-36A	Orange / Wrap / Fibrous / Homogeneous	None Detected	Cellulose 30%	Binding Material
Location: Orange painted line, throughout Butvar building, visible 3 <sup>rd</sup> floor, east of Butvar buffer tank / Taken from vertical run to ground										
						5522-4255-36B	Grey / Insulation / Fibrous / Homogeneous	None Detected	Cellulose 2% Fibrous Glass 10%	Binding Material



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1322 Space Park Drive, Suite A155  
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281-470-0708  
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Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-345	N/A	N/A	N/A	N/A	152	5522-4255-37A	Black / Mastic,Material / Fibrous / Homogeneous	Chrysotile 5%	None Detected	Binding Material
Location: Gelva varnish line, 3 <sup>rd</sup> floor, Butvar building, south #4 hydro vessel / Taken from 45°										
						5522-4255-37B	Off White / Insulation / Fibrous / Homogeneous	Chrysotile 15% Amosite 15%	None Detected	Binding Material
B-346	N/A	N/A	N/A	N/A	152	5522-4255-38A	Black / Mastic,Material / Fibrous / Homogeneous	Chrysotile 5%	None Detected	Binding Material
Location: Gelva varnish line, 3 <sup>rd</sup> floor, Butvar building, south #4 hydro vessel / Taken from horizontal run										
						5522-4255-38B	Off White / Insulation / Fibrous / Homogeneous	Chrysotile 15% Amosite 15%	None Detected	Binding Material
B-347	N/A	N/A	N/A	N/A	152	5522-4255-39A	Black / Mastic,Material / Fibrous / Homogeneous	Chrysotile 5%	None Detected	Binding Material
Location: Gelva varnish line, 3 <sup>rd</sup> floor, Butvar building, south #4 hydro vessel / Taken from line to building line exit										



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Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-347	N/A	N/A	N/A	N/A	152	5522-4255-39B	Off White / Insulation / Fibrous / Homogeneous	Chrysotile 15% Amosite 15%	None Detected	Binding Material
Location: Gelva varnish line, 3 <sup>rd</sup> floor, Butvar building, south #4 hydro vessel / Taken from line to building line exit										
B-348	N/A	N/A	N/A	N/A	153	5522-4255-40A	White,Silver / Wrap / Fibrous / Homogeneous	None Detected	Cellulose 30% Fibrous Glass 5%	Binding Material
Location: Various piping throughout 3 <sup>rd</sup> floor Butvar building / Taken from piping, north end										
						5522-4255-40B	Yellow / Insulation / Fibrous / Homogeneous	None Detected	Fibrous Glass 95%	Binding Material
B-349	N/A	N/A	N/A	N/A	153	5522-4255-41A	White,Silver / Wrap / Fibrous / Homogeneous	None Detected	Cellulose 30% Fibrous Glass 5%	Binding Material
Location: Various piping throughout 3 <sup>rd</sup> floor Butvar building / Taken from piping, south end										
						5522-4255-41B	Yellow / Insulation / Fibrous / Homogeneous	None Detected	Fibrous Glass 95%	Binding Material



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Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-350	N/A	N/A	N/A	N/A	153	5522-4255-42A	White, Silver / Wrap / Fibrous / Homogeneous	None Detected	Cellulose 30% Fibrous Glass 5%	Binding Material
Location: Various piping throughout 3 <sup>rd</sup> floor Butvar building / Taken from piping, east end										
						5522-4255-42B	Yellow / Insulation / Fibrous / Homogeneous	None Detected	Fibrous Glass 95%	Binding Material
Location: Various piping throughout 3 <sup>rd</sup> floor Butvar building / Taken from piping, east end										
B-351	N/A	N/A	N/A	N/A	154	5522-4255-43A	Yellow, White / Material / Fibrous / Homogeneous	None Detected	Cellulose 10%	Binding Material
Location: Southwest side, 3 <sup>rd</sup> floor Butvar building, LP steam line, southwest door / Taken from ground level										
						5522-4255-43B	White / Insulation / Fibrous / Homogeneous	Chrysotile 30% Amosite 3%	None Detected	Binding Material
Location: Various piping throughout 3 <sup>rd</sup> floor Butvar building / Taken from piping, east end										
B-352	N/A	N/A	N/A	N/A	154	5522-4255-44A	Yellow, White / Material / Fibrous / Homogeneous	None Detected	Cellulose 10%	Binding Material
Location: Southwest side, 3 <sup>rd</sup> floor Butvar building, LP steam line, southwest door / Taken from 3ft elevation										



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Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-352	N/A	N/A	N/A	N/A	154	5522-4255-44B	White / Insulation / Fibrous / Homogeneous	Chrysotile 30% Amosite 3%	None Detected	Binding Material
Location: Southwest side, 3 <sup>rd</sup> floor Butvar building, LP steam line, southwest door / Taken from 3ft elevation										
B-353	N/A	N/A	N/A	N/A	154	5522-4255-45A	Yellow, White / Material / Fibrous / Homogeneous	None Detected	Cellulose 10%	Binding Material
Location: Southwest side, 3 <sup>rd</sup> floor Butvar building, LP steam line, southwest door / Taken from 5ft elevation										
						5522-4255-45B	White / Insulation / Fibrous / Homogeneous	Chrysotile 30% Amosite 3%	None Detected	Binding Material
B-354	N/A	N/A	N/A	N/A	155	5522-4255-46A	White, Green, Brown / Wrap / Fibrous / Homogeneous	None Detected	Cellulose 30% Fibrous Glass 30%	Binding Material
Location: Southwest side of 2 <sup>nd</sup> floor on decking, white mastic, west of VE-141 / Taken from south end of pipe										
						5522-4255-46B	Yellow / Insulation / Fibrous / Homogeneous	None Detected	Fibrous Glass 95%	Binding Material



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B-355	N/A	N/A	N/A	N/A	155	5522-4255-47A	White, Green, Brown / Wrap / Fibrous / Homogeneous	None Detected	Cellulose 30% Fibrous Glass 30%	Binding Material
Location: Southwest side of 2 <sup>nd</sup> floor on decking, white mastic, west of VE-141 / Taken from center of pipe										
						5522-4255-47B	Yellow / Insulation / Fibrous / Homogeneous	None Detected	Fibrous Glass 95%	Binding Material
Location: Southwest side of 2 <sup>nd</sup> floor on decking, white mastic, west of VE-141 / Taken from center of pipe										
B-356	N/A	N/A	N/A	N/A	155	5522-4255-48A	White, Green, Brown / Wrap / Fibrous / Homogeneous	None Detected	Cellulose 30% Fibrous Glass 30%	Binding Material
Location: Southwest side of 2 <sup>nd</sup> floor on decking, white mastic, west of VE-141 / Taken from north end of pipe										
						5522-4255-48B	Yellow / Insulation / Fibrous / Homogeneous	None Detected	Fibrous Glass 95%	Binding Material
Location: Southwest side of 2 <sup>nd</sup> floor on decking, white mastic, west of VE-141 / Taken from north end of pipe										
B-357	N/A	N/A	N/A	N/A	156	5522-4255-49A	Green, Black, White / Material / Fibrous / Homogeneous	Chrysotile 15%	None Detected	Binding Material
Location: White mastic on tower water return line, west of VE-222X / Taken from upper elbow										



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Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-357	N/A	N/A	N/A	N/A	156	5522-4255-49B	Yellow / Insulation / Fibrous / Homogeneous	None Detected	Fibrous Glass 95%	Binding Material
Location: White mastic on tower water return line, west of VE-222X / Taken from upper elbow										
B-358	N/A	N/A	N/A	N/A	156	5522-4255-50A	Green,Black,White / Material / Fibrous / Homogeneous	Chrysotile 15%	None Detected	Binding Material
Location: White mastic on tower water return line, west of VE-222X / Taken from horizontal run										
						5522-4255-50B	Yellow / Insulation / Fibrous / Homogeneous	None Detected	Fibrous Glass 95%	Binding Material
B-359	N/A	N/A	N/A	N/A	156	5522-4255-51A	Green,Black,White / Material / Fibrous / Homogeneous	Chrysotile 15%	None Detected	Binding Material
Location: White mastic on tower water return line, west of VE-222X / Taken from lower elbow										
						5522-4255-51B	Yellow / Insulation / Fibrous / Homogeneous	None Detected	Fibrous Glass 95%	Binding Material



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B-360	N/A	N/A	N/A	N/A	157	5522-4255-52	Off White / Insulation / Fibrous / Homogeneous	Chrysotile 30% Amosite 15%	None Detected	Binding Material
Location: White, condensate line south of VE-225, 2 <sup>nd</sup> floor Butvar / Taken from floor level										
B-361	N/A	N/A	N/A	N/A	157	5522-4255-53A	Off White / Mastic Wrap / Fibrous / Homogeneous	None Detected	Fibrous Glass 30%	Binding Material
Location: White, condensate line south of VE-225, 2 <sup>nd</sup> floor Butvar / Taken from vertical run, 3ft elevation										
						5522-4255-53B	Off White / Insulation / Fibrous / Homogeneous	Chrysotile 30% Amosite 15%	None Detected	Binding Material
B-362	N/A	N/A	N/A	N/A	157	5522-4255-54A	Off White / Mastic Wrap / Fibrous / Homogeneous	None Detected	Fibrous Glass 30%	Binding Material
Location: White, condensate line south of VE-225, 2 <sup>nd</sup> floor Butvar / Taken from vertical run, 5ft elevation										
						5522-4255-54B	Off White / Insulation / Fibrous / Homogeneous	Chrysotile 30% Amosite 15%	None Detected	Binding Material



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Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-363	N/A	N/A	N/A	N/A	158	5522-4255-55	Grey / Material / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Brick and mortar throughout Butvar building / Taken from west wall										
B-364	N/A	N/A	N/A	N/A	158	5522-4255-56	Grey / Material / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Brick and mortar throughout Butvar building / Taken from east wall										
B-365	N/A	N/A	N/A	N/A	158	5522-4255-57	Grey / Material / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Brick and mortar throughout Butvar building / Taken from north wall										
B-366	N/A	N/A	N/A	N/A	159	5522-4255-58	Grey, Tan / Material / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Floor surfacing throughout Butvar Building / Taken from 1 <sup>st</sup> floor ground										
B-367	N/A	N/A	N/A	N/A	159	5522-4255-59	White / Material / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Floor surfacing throughout Butvar Building / Taken from 2 <sup>nd</sup> floor ground										



**Apex Precision Analytical Services. Inc.**

306 W. Edgewood Dr., Suite D  
Friendswood, TX, 77546

**PLM (Bulk) - Asbestos Analysis Report - Visual ID**  
(EPA Method 600/R-93-116 Visual Area Estimation)

**Turnstone EH & S, Inc. (Houston)**  
1322 Space Park Drive, Suite A155  
Houston, TX 77058  
281-470-0708  
Contact: Luis Hernandez

**Report Number: 5522-4255**  
**Report Date: October 25, 2022**  
**Collection Date: October 19, 2022**  
**Date Received: October 20, 2022**  
**Turn-around time: 72 Hour**

Job ID / Site: H22-0546 / Eastman Solutia / Butvar Bldg

Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-368	N/A	N/A	N/A	N/A	159	5522-4255-60	Grey, Brown / Material / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Floor surfacing throughout Butvar Building / Taken from 3 <sup>rd</sup> floor ground										
B-369	N/A	N/A	N/A	N/A	160	5522-4255-61	White / Material / Fibrous / Homogeneous	Chrysotile 2%	None Detected	Binding Material
Location: Window caulking throughout Butvar building / Taken from 2 <sup>nd</sup> floor, south side										
B-370	N/A	N/A	N/A	N/A	160	5522-4255-62	White / Material / Fibrous / Homogeneous	Chrysotile 2%	None Detected	Binding Material
Location: Window caulking throughout Butvar building / Taken from 2 <sup>nd</sup> floor, west side										
B-371	N/A	N/A	N/A	N/A	160	5522-4255-63	White / Material / Fibrous / Homogeneous	Chrysotile 2%	None Detected	Binding Material
Location: Window caulking throughout Butvar building / Taken from 3 <sup>rd</sup> floor, west side										



## ASBESTOS BULK ANALYSIS REPORT

Date: October 27, 2022

Turnstone EH & S, Inc. (Houston)

Report: 5522-4290  
H22-0546 / Eastman Solutia / Gelva Building

This document shall be considered a duly signed original report of the results obtained from the analyses performed. All analyses are done within government guidelines and regulations.

A handwritten signature in black ink, appearing to read 'G.R. Simmons', is positioned above a horizontal line.

Gary R. Simmons  
Laboratory Manager

Lab Comments on Project: N/A

Analytical results and reports are generated by Apex Precision Analytical Services at the request of and for the use of the person or entity (client) named on such report. Result, reports or copies of same will not be released by Apex Precision Analytical Services to any third party without the written request from client. These results only represent the materials submitted. Supporting laboratory documentation is available upon request. This report cannot be used to represent conditions at any other location, date or time and does not imply that this space is free from these or any other contaminants. No responsibility or liability is assumed for the manner in which these results are used or interpreted. This must not be used to claim product endorsement by NVLAP or any government agency of the United States. Apex Precision Analytical Services reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified.



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1322 Space Park Drive, Suite A155  
Houston, TX 77058  
281-470-0708  
Contact: Luis Hernandez

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**Report Date: October 27, 2022**  
**Collection Date: October 20, 2022**  
**Date Received: October 24, 2022**  
**Turn-around time: 72 Hour**

Job ID / Site: H22-0546 / Eastman Solutia / Gelva Building

Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-372	N/A	N/A	N/A	N/A	161	5522-4290-01	Black / Foam Glass / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Gelva Building, TK-VE-134, insulation of body and head / Taken from body top head										
B-373	N/A	N/A	N/A	N/A	161	5522-4290-02	Black / Foam Glass / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Gelva Building, TK-VE-134, insulation of body and head / Taken from body										
B-374	N/A	N/A	N/A	N/A	161	5522-4290-03	Black / Foam Glass / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Gelva Building, TK-VE-134, insulation of body and head / Taken from lower head										
B-375	N/A	N/A	N/A	N/A	162	5522-4290-04A	Black / Mastic / Fibrous / Homogeneous	None Detected	Cellulose 5%	Binding Material
Location: Gelva building, TK-TA-137, insulation of body and head / Taken from body top head										
						5522-4290-04B	White / Insulation / Fibrous / Homogeneous	Chrysotile 30%	None Detected	Binding Material



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Job ID / Site: H22-0546 / Eastman Solutia / Gelva Building

Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-376	N/A	N/A	N/A	N/A	162	5522-4290-05A	Grey / Mastic Wrap / Fibrous / Homogeneous	Chrysotile 2%	Fibrous Glass 10%	Binding Material
Location: Gelva building, TK-TA-137, insulation of body and head / Taken from body										
						5522-4290-05B	Off White / Insulation / Fibrous / Homogeneous	None Detected	Cellulose 2% Fibrous Glass 2%	Binding Material
B-377	N/A	N/A	N/A	N/A	162	5522-4290-06A	Black / Mastic / Fibrous / Homogeneous	None Detected	Cellulose 5%	Binding Material
Location: Gelva building, TK-TA-137, insulation of body and head / Taken from body bottom head										
						5522-4290-06B	Off White / Insulation / Fibrous / Homogeneous	Chrysotile 30%	None Detected	Binding Material
B-378	N/A	N/A	N/A	N/A	163	5522-4290-07	Tan / Mastic Wrap / Fibrous / Homogeneous	None Detected	Cellulose 20%	Binding Material
Location: Mastic from body of TA-125, white/black mastic / Taken from tank body										



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Job ID / Site: H22-0546 / Eastman Solutia / Gelva Building

Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-379	N/A	N/A	N/A	N/A	163	5522-4290-08A	Tan / Mastic Wrap / Fibrous / Homogeneous	None Detected	Cellulose 20%	Binding Material
Location: Mastic from body of TA-125, white/black mastic / Taken from tank bottom										
						5522-4290-08B	Black / Foam / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Mastic from body of TA-125, white/black mastic / Taken from tank bottom										
B-380	N/A	N/A	N/A	N/A	163	5522-4290-09A	Tan / Mastic Wrap / Fibrous / Homogeneous	None Detected	Cellulose 20%	Binding Material
Location: Mastic from body of TA-125, white/black mastic / Taken from tank body south side										
						5522-4290-09B	Black / Foam / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Mastic from body of TA-125, white/black mastic / Taken from tank body south side										
B-381	N/A	N/A	N/A	N/A	164	5522-4290-10	Grey / Material / Fibrous / Homogeneous	Chrysotile 60%	None Detected	Binding Material
Location: White mastic wrap on valves and joints on city water lines, Gelva / Taken from bottom joint										



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Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-382	N/A	N/A	N/A	N/A	164	5522-4290-11A	Red / Material / Fibrous / Homogeneous	None Detected	Cellulose 2% Fibrous Glass 10%	Binding Material
Location: White mastic wrap on valves and joints on city water lines, Gelva / Taken from valve										
						5522-4290-11B	Grey / Material / Fibrous / Homogeneous	Chrysotile 10%	Fibrous Glass 10%	Binding Material
B-383	N/A	N/A	N/A	N/A	164	5522-4290-12A	Red / Material / Fibrous / Homogeneous	None Detected	Cellulose 2% Fibrous Glass 10%	Binding Material
Location: White mastic wrap on valves and joints on city water lines, Gelva / Taken from top joint										
						5522-4290-12B	Grey / Material / Fibrous / Homogeneous	Chrysotile 10%	Fibrous Glass 10%	Binding Material
B-384	N/A	N/A	N/A	N/A	165	5522-4290-13	Black / Foam / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Body and head coatings from TA-128 and 129, black/grey Gelva / Taken from head of TA-128										



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Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-385	N/A	N/A	N/A	N/A	165	5522-4290-14	Black / Foam / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Body and head coatings from TA-128 and 129, black/grey Gelva / Taken from body of TA-128										
B-386	N/A	N/A	N/A	N/A	165	5522-4290-15	Black / Foam / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Body and head coatings from TA-128 and 129, black/grey Gelva / Taken from head of TA-129										
B-387	N/A	N/A	N/A	N/A	166	5522-4290-16	Yellow / Insulation / Fibrous / Homogeneous	None Detected	Fibrous Glass 95%	Binding Material
Location: Yellow insulation on steam condensate lines throughout 1 <sup>st</sup> floor / Taken from 1 <sup>st</sup> floor										
B-388	N/A	N/A	N/A	N/A	166	5522-4290-17	Yellow / Insulation / Fibrous / Homogeneous	None Detected	Fibrous Glass 95%	Binding Material
Location: Yellow insulation on steam condensate lines throughout 1 <sup>st</sup> floor / Taken from 1 <sup>st</sup> floor stairway										
B-389	N/A	N/A	N/A	N/A	166	5522-4290-18	Yellow / Insulation / Fibrous / Homogeneous	None Detected	Fibrous Glass 95%	Binding Material
Location: Yellow insulation on steam condensate lines throughout 1 <sup>st</sup> floor / Taken from 1 <sup>st</sup> floor entryway										



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Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-390	N/A	N/A	N/A	N/A	167	5522-4290-19	Green,Grey / Material / Fibrous / Homogeneous	None Detected	Fibrous Glass 3%	Binding Material
Location: Fireproofing on columns south side, 2 <sup>nd</sup> floor / Taken from southwest column										
B-391	N/A	N/A	N/A	N/A	167	5522-4290-20	Green,Grey / Material / Fibrous / Homogeneous	None Detected	Fibrous Glass 3%	Binding Material
Location: Fireproofing on columns south side, 2 <sup>nd</sup> floor / Taken from southeast column										
B-392	N/A	N/A	N/A	N/A	167	5522-4290-21	Green,Grey / Material / Fibrous / Homogeneous	None Detected	Fibrous Glass 3%	Binding Material
Location: Fireproofing on columns south side, 2 <sup>nd</sup> floor / Taken from southeast column										
B-393	N/A	N/A	N/A	N/A	168	5522-4290-22A	Green,Off-White / Wrap / Fibrous / Homogeneous	None Detected	Cellulose 30%	Binding Material
Location: Green wrapped city water line throughout 2 <sup>nd</sup> floor / Taken from ground level										
						5522-4290-22B	Yellow / Insulation / Fibrous / Homogeneous	None Detected	Fibrous Glass 95%	Binding Material



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Job ID / Site: H22-0546 / Eastman Solutia / Gelva Building

Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-394	N/A	N/A	N/A	N/A	168	5522-4290-23A	Green, Off-White / Wrap / Fibrous / Homogeneous	None Detected	Cellulose 30%	Binding Material
Location: Green wrapped city water line throughout 2 <sup>nd</sup> floor / Taken from 3ft elevation										
						5522-4290-23B	Yellow / Insulation / Fibrous / Homogeneous	None Detected	Fibrous Glass 95%	Binding Material
B-395	N/A	N/A	N/A	N/A	168	5522-4290-24A	Green, Off-White / Wrap / Fibrous / Homogeneous	None Detected	Cellulose 30%	Binding Material
Location: Green wrapped city water line throughout 2 <sup>nd</sup> floor / Taken from 5ft elevation										
						5522-4290-24B	Yellow / Insulation / Fibrous / Homogeneous	None Detected	Fibrous Glass 95%	Binding Material
B-396	N/A	N/A	N/A	N/A	169	5522-4290-25A	Off White / Wrap / Fibrous / Homogeneous	None Detected	Cellulose 60%	Binding Material
Location: White wrap on city water joints and valves, 3 <sup>rd</sup> floor, Gelva / Taken from joint above bathroom										



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Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-396	N/A	N/A	N/A	N/A	169	5522-4290-25B	Off White / Insulation / Fibrous / Homogeneous	Chrysotile 30%	None Detected	Binding Material
Location: White wrap on city water joints and valves, 3 <sup>rd</sup> floor, Gelva / Taken from joint above bathroom										
B-397	N/A	N/A	N/A	N/A	169	5522-4290-26A	White / Mastic Wrap / Fibrous / Homogeneous	None Detected	Cellulose 30%	Binding Material
Location: White wrap on city water joints and valves, 3 <sup>rd</sup> floor, Gelva / Taken from joint above entry										
						5522-4290-26B	Yellow / Insulation / Fibrous / Homogeneous	None Detected	Fibrous Glass 95%	Binding Material
B-398	N/A	N/A	N/A	N/A	169	5522-4290-27A	White / Mastic Wrap / Fibrous / Homogeneous	None Detected	Cellulose 30%	Binding Material
Location: White wrap on city water joints and valves, 3 <sup>rd</sup> floor, Gelva / Taken from valve above entry										
						5522-4290-27B	Off White / Insulation / Fibrous / Homogeneous	Chrysotile 30%	None Detected	Binding Material



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Job ID / Site: H22-0546 / Eastman Solutia / Gelva Building

Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-399	N/A	N/A	N/A	N/A	170	5522-4290-28	Silver,Black / Mastic Wrap / Fibrous / Homogeneous	Chrysotile 5%	Fibrous Glass 15%	Binding Material
Location: Coating and insulation on TA-133, 3 <sup>rd</sup> floor Gelva / Taken from body										
B-400	N/A	N/A	N/A	N/A	170	5522-4290-29	Silver,Black / Mastic Wrap / Fibrous / Homogeneous	Chrysotile 5%	Fibrous Glass 15%	Binding Material
Location: Coating and insulation on TA-133, 3 <sup>rd</sup> floor Gelva / Taken from head										
B-401	N/A	N/A	N/A	N/A	170	5522-4290-30	Silver,Black / Mastic Wrap / Fibrous / Homogeneous	Chrysotile 5%	Fibrous Glass 15%	Binding Material
Location: Coating and insulation on TA-133, 3 <sup>rd</sup> floor Gelva / Taken from bottom body										
B-402	N/A	N/A	N/A	N/A	171	5522-4290-31	Yellow / Insulation / Fibrous / Homogeneous	None Detected	Fibrous Glass 95%	Binding Material
Location: Rippled jacket steam line, rooftop, west wide of Gelva / Taken from north side of line										
B-403	N/A	N/A	N/A	N/A	171	5522-4290-32	Yellow / Insulation / Fibrous / Homogeneous	None Detected	Fibrous Glass 95%	Binding Material
Location: Rippled jacket steam line, rooftop, west wide of Gelva / Taken from center of line										



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Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-404	N/A	N/A	N/A	N/A	171	5522-4290-33	Yellow / Insulation / Fibrous / Homogeneous	None Detected	Fibrous Glass 95%	Binding Material
Location: Rippled jacket steam line, rooftop, west wide of Gelva / Taken from south side of line										
B-405	N/A	N/A	N/A	N/A	172	5522-4290-34	Silver,Black / Roofing Material / Fibrous / Homogeneous	None Detected	Cellulose 3% Fibrous Glass 5%	Binding Material
Location: Roofing material from Gelva roof / Taken from north area										
B-406	N/A	N/A	N/A	N/A	172	5522-4290-35	Silver,Black / Roofing Material / Fibrous / Homogeneous	None Detected	Cellulose 3% Fibrous Glass 5%	Binding Material
Location: Roofing material from Gelva roof / Taken from west area										
B-407	N/A	N/A	N/A	N/A	172	5522-4290-36	Silver,Black / Roofing Material / Fibrous / Homogeneous	None Detected	Cellulose 3% Fibrous Glass 5%	Binding Material
Location: Roofing material from Gelva roof / Taken from south area										
B-408	N/A	N/A	N/A	N/A	173	5522-4290-37	Black / Foam Glass / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Scrubber body and piping on Gelva roof / Taken from PK #3 body										



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B-409	N/A	N/A	N/A	N/A	173	5522-4290-38	Black / Foam Glass / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Scrubber body and piping on Gelva roof / Taken from PK #2 body										
B-410	N/A	N/A	N/A	N/A	173	5522-4290-39	Black / Foam Glass / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Scrubber body and piping on Gelva roof / Taken from piping from PK #2										
B-411	N/A	N/A	N/A	N/A	174	5522-4290-40	Red / Brick / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Rooftop brick and mortar, red, Gelva building / Taken from north area										
B-412	N/A	N/A	N/A	N/A	174	5522-4290-41	Red / Brick / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Rooftop brick and mortar, red, Gelva building / Taken from south area										
B-413	N/A	N/A	N/A	N/A	174	5522-4290-42	Red / Brick / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Rooftop brick and mortar, red, Gelva building / Taken from east area										



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**Turn-around time: 72 Hour**

Job ID / Site: H22-0546 / Eastman Solutia / Gelva Building

Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-414	N/A	N/A	N/A	N/A	175	5522-4290-43	Off White,Grey / Material / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Interior brick and mortar of Gelva building, white / Taken from 3 <sup>rd</sup> floor										
B-415	N/A	N/A	N/A	N/A	175	5522-4290-44	Off White,Grey / Material / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Interior brick and mortar of Gelva building, white / Taken from 2 <sup>nd</sup> floor										
B-416	N/A	N/A	N/A	N/A	175	5522-4290-45	Off White,Grey / Material / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Interior brick and mortar of Gelva building, white / Taken from 1 <sup>st</sup> floor										



## ASBESTOS BULK ANALYSIS REPORT

Date: October 27, 2022

Turnstone EH & S, Inc. (Houston)

Report: 5522-4291  
H22-0546 / Eastman Solutia / Green  
Warehouse

This document shall be considered a duly signed original report of the results obtained from the analyses performed. All analyses are done within government guidelines and regulations.

A handwritten signature in black ink, appearing to read 'G.R. Simmons', is positioned above a horizontal line.

Gary R. Simmons  
Laboratory Manager

Lab Comments on Project: N/A

Analytical results and reports are generated by Apex Precision Analytical Services at the request of and for the use of the person or entity (client) named on such report. Result, reports or copies of same will not be released by Apex Precision Analytical Services to any third party without the written request from client. These results only represent the materials submitted. Supporting laboratory documentation is available upon request. This report cannot be used to represent conditions at any other location, date or time and does not imply that this space is free from these or any other contaminants. No responsibility or liability is assumed for the manner in which these results are used or interpreted. This must not be used to claim product endorsement by NVLAP or any government agency of the United States. Apex Precision Analytical Services reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified.



**Apex Precision Analytical Services. Inc.**

306 W. Edgewood Dr., Suite D  
Friendswood, TX, 77546

**PLM (Bulk) - Asbestos Analysis Report - Visual ID**  
(EPA Method 600/R-93-116 Visual Area Estimation)

Turnstone EH & S, Inc. (Houston)  
1322 Space Park Drive, Suite A155  
Houston, TX 77058  
281-470-0708  
Contact: Luis Hernandez

Report Number: 5522-4291  
Report Date: October 27, 2022  
Collection Date: October 20, 2022  
Date Received: October 24, 2022  
Turn-around time: 72 Hour

Job ID / Site: H22-0546 / Eastman Solutia / Green Warehouse

Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-417	N/A	N/A	N/A	N/A	176	5522-4291-01A	Off White,Silver / Wrap / Fibrous / Homogeneous	None Detected	Cellulose 30% Fibrous Glass 5%	Binding Material
Location: Green warehouse, southeast corner, utility lines throughout warehouse white / Taken from southeast corner										
						5522-4291-01B	Yellow / Insulation / Fibrous / Homogeneous	None Detected	Fibrous Glass 95%	Binding Material
Location: Green warehouse, southeast corner, utility lines throughout warehouse white / Taken from 3ft elevation										
B-418	N/A	N/A	N/A	N/A	176	5522-4291-02	Yellow / Insulation / Fibrous / Homogeneous	None Detected	Fibrous Glass 95%	Binding Material
Location: Green warehouse, southeast corner, utility lines throughout warehouse white / Taken from 3ft elevation										
B-419	N/A	N/A	N/A	N/A	176	5522-4291-03A	Off White,Silver / Wrap / Fibrous / Homogeneous	None Detected	Cellulose 30% Fibrous Glass 5%	Binding Material
Location: Green warehouse, southeast corner, utility lines throughout warehouse white / Taken from center run of line										
						5522-4291-03B	Yellow / Insulation / Fibrous / Homogeneous	None Detected	Fibrous Glass 95%	Binding Material
Location: Green warehouse, southeast corner, utility lines throughout warehouse white / Taken from center run of line										



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281-470-0708  
Contact: Luis Hernandez

**Report Number: 5522-4291**  
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**Turn-around time: 72 Hour**

Job ID / Site: H22-0546 / Eastman Solutia / Green Warehouse

Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-420	N/A	N/A	N/A	N/A	177	5522-4291-04A	Brown / Wrap / Fibrous / Homogeneous	None Detected	Cellulose 95%	Binding Material
Location: Tan wrapped utility lines throughout warehouse / Taken from southeast corner										
						5522-4291-04B	Yellow / Insulation / Fibrous / Homogeneous	None Detected	Fibrous Glass 95%	Binding Material
Location: Tan wrapped utility lines throughout warehouse / Taken from southeast corner										
B-421	N/A	N/A	N/A	N/A	177	5522-4291-05A	Brown / Wrap / Fibrous / Homogeneous	None Detected	Cellulose 95%	Binding Material
Location: Tan wrapped utility lines throughout warehouse / Taken from 7ft elevated										
						5522-4291-05B	Yellow / Insulation / Fibrous / Homogeneous	None Detected	Fibrous Glass 95%	Binding Material
Location: Tan wrapped utility lines throughout warehouse / Taken from 7ft elevated										
B-422	N/A	N/A	N/A	N/A	177	5522-4291-06A	Brown / Wrap / Fibrous / Homogeneous	None Detected	Cellulose 95%	Binding Material
Location: Tan wrapped utility lines throughout warehouse / Taken from center tun of line										



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Job ID / Site: H22-0546 / Eastman Solutia / Green Warehouse

Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
						5522-4291-06B	Yellow / Insulation / Fibrous / Homogeneous	None Detected	Fibrous Glass 95%	Binding Material
B-423	N/A	N/A	N/A	N/A	178	5522-4291-07A	Silver,Brown / Wrap / Fibrous / Homogeneous	None Detected	Cellulose 30% Fibrous Glass 5%	Binding Material
Location: Wall and Ceiling insulation of green warehouse / Taken from northwest wall corner										
						5522-4291-07B	Grey / Insulation / Fibrous / Homogeneous	None Detected	Fibrous Glass 95%	Binding Material
B-424	N/A	N/A	N/A	N/A	178	5522-4291-08A	Silver,Brown / Wrap / Fibrous / Homogeneous	None Detected	Cellulose 30% Fibrous Glass 5%	Binding Material
Location: Wall and Ceiling insulation of green warehouse / Taken from southwest wall corner										
						5522-4291-08B	Grey / Insulation / Fibrous / Homogeneous	None Detected	Fibrous Glass 95%	Binding Material



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Job ID / Site: H22-0546 / Eastman Solutia / Green Warehouse

Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-425	N/A	N/A	N/A	N/A	178	5522-4291-09A	Silver,Brown / Wrap / Fibrous / Homogeneous	None Detected	Cellulose 30% Fibrous Glass 5%	Binding Material
Location: Wall and Ceiling insulation of green warehouse / Taken from southeast wall corner										
						5522-4291-09B	Grey / Insulation / Fibrous / Homogeneous	None Detected	Fibrous Glass 95%	Binding Material
Location: Wall and Ceiling insulation of green warehouse / Taken from southeast wall corner										
B-426	N/A	N/A	N/A	N/A	178	5522-4291-10A	Silver,Brown / Wrap / Fibrous / Homogeneous	None Detected	Cellulose 30% Fibrous Glass 5%	Binding Material
Location: Wall and Ceiling insulation of green warehouse / Taken from northeast ceiling corner										
						5522-4291-10B	Grey / Insulation / Fibrous / Homogeneous	None Detected	Fibrous Glass 95%	Binding Material
Location: Wall and Ceiling insulation of green warehouse / Taken from northeast ceiling corner										
B-427	N/A	N/A	N/A	N/A	178	5522-4291-11A	Silver,Brown / Wrap / Fibrous / Homogeneous	None Detected	Cellulose 30% Fibrous Glass 5%	Binding Material
Location: Wall and Ceiling insulation of green warehouse / Taken from southwest ceiling corner										



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Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
						5522-4291-11B	Grey / Insulation / Fibrous / Homogeneous	None Detected	Fibrous Glass 95%	Binding Material
B-428	N/A	N/A	N/A	N/A	179	5522-4291-12	Grey / Material / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Green warehouse, foundation / Taken from east-most area										
B-429	N/A	N/A	N/A	N/A	179	5522-4291-13	Grey / Material / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Green warehouse, foundation / Taken from west-most area										
B-430	N/A	N/A	N/A	N/A	179	5522-4291-14	Grey / Material / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Green warehouse, foundation / Taken from north-most area										



## ASBESTOS BULK ANALYSIS REPORT

Date: November 1, 2022

Turnstone EH & S, Inc. (Houston)

Report: 5522-4394  
H22-0546 / Eastman Solutia / Dryer Bldg

This document shall be considered a duly signed original report of the results obtained from the analyses performed. All analyses are done within government guidelines and regulations.

A handwritten signature in black ink, appearing to read 'G.R. Simmons', is positioned above a horizontal line.

Gary R. Simmons  
Laboratory Manager

Lab Comments on Project: N/A

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**Turnstone EH & S, Inc. (Houston)**  
1322 Space Park Drive, Suite A155  
Houston, TX 77058  
281-470-0708  
Contact: Luis Hernandez

**Report Number: 5522-4394**  
**Report Date: November 1, 2022**  
**Collection Date: October 25, 2022**  
**Date Received: October 27, 2022**  
**Turn-around time: 72 Hour**

Job ID / Site: H22-0546 / Eastman Solutia / Dryer Bldg

Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-475	N/A	N/A	N/A	N/A	209	5522-4394-01	White / Insulation / Fibrous / Homogeneous	Chrysotile 20% Amosite 20%	None Detected	Binding Material
Location: Dryer building warehouse, drain line by bathroom, 2 <sup>nd</sup> line 1 <sup>st</sup> floor / Taken from ground level										
B-476	N/A	N/A	N/A	N/A	209	5522-4394-02	White / Insulation / Fibrous / Homogeneous	Chrysotile 20% Amosite 20%	None Detected	Binding Material
Location: Dryer building warehouse, drain line by bathroom, 2 <sup>nd</sup> line 1 <sup>st</sup> floor / Taken from 3ft elevation										
B-477	N/A	N/A	N/A	N/A	209	5522-4394-03	White / Insulation / Fibrous / Homogeneous	Chrysotile 20% Amosite 20%	None Detected	Binding Material
Location: Dryer building warehouse, drain line by bathroom, 2 <sup>nd</sup> line 1 <sup>st</sup> floor / Taken from 5ft elevation										
B-478	N/A	N/A	N/A	N/A	210	5522-4394-04	Brown / Material / Fibrous / Homogeneous	None Detected	Cellulose 70%	Binding Material
Location: Yellow radiator line in bathroom, warehouse 1 <sup>st</sup> floor / Taken from lower line										
B-479	N/A	N/A	N/A	N/A	210	5522-4394-05A	Yellow / Material / Fibrous / Homogeneous	None Detected	Cellulose 20%	Binding Material
Location: Yellow radiator line in bathroom, warehouse 1 <sup>st</sup> floor / Taken from elbow										



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Job ID / Site: H22-0546 / Eastman Solutia / Dryer Bldg

Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-479	N/A	N/A	N/A	N/A	210	5522-4394-05B	White / Insulation / Fibrous / Homogeneous	Chrysotile 20% Amosite 20%	None Detected	Binding Material
Location: Yellow radiator line in bathroom, warehouse 1 <sup>st</sup> floor / Taken from elbow										
B-480	N/A	N/A	N/A	N/A	210	5522-4394-06A	Yellow,Brown / Material / Fibrous / Homogeneous	None Detected	Cellulose 40%	Binding Material
Location: Yellow radiator line in bathroom, warehouse 1 <sup>st</sup> floor / Taken from upper line										
						5522-4394-06B	White / Insulation / Fibrous / Homogeneous	Chrysotile 20% Amosite 20%	None Detected	Binding Material
B-481	N/A	N/A	N/A	N/A	211	5522-4394-07	Off White,Grey / Material / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: White brick and mortar, pack out system 1 <sup>st</sup> floor warehouse dryer / Taken from east wall										
B-482	N/A	N/A	N/A	N/A	211	5522-4394-08	Off White,Grey / Material / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: White brick and mortar, pack out system 1 <sup>st</sup> floor warehouse dryer / Taken from south wall										



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Job ID / Site: H22-0546 / Eastman Solutia / Dryer Bldg

Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-483	N/A	N/A	N/A	N/A	211	5522-4394-09	Off White, Grey / Material / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: White brick and mortar, pack out system 1 <sup>st</sup> floor warehouse dryer / Taken from west wall										
B-484	N/A	N/A	N/A	N/A	212	5522-4394-10A	Yellow / Material / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Yellow coated steam line throughout dryer building / Taken from 3 <sup>rd</sup> floor, at grated floor										
						5522-4394-10B	Grey / Insulation / Fibrous / Homogeneous	Chrysotile 5% Amosite 40%	None Detected	Binding Material
B-485	N/A	N/A	N/A	N/A	212	5522-4394-11A	Yellow / Material / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Yellow coated steam line throughout dryer building / Taken from 3 <sup>rd</sup> floor, 3ft elevation										
						5522-4394-11B	Grey / Insulation / Fibrous / Homogeneous	Chrysotile 5% Amosite 40%	None Detected	Binding Material



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Job ID / Site: H22-0546 / Eastman Solutia / Dryer Bldg

Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-486	N/A	N/A	N/A	N/A	212	5522-4394-12A	Yellow / Material / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Yellow coated steam line throughout dryer building / Taken from 3 <sup>rd</sup> floor, 5ft elevation										
						5522-4394-12B	Grey / Insulation / Fibrous / Homogeneous	Chrysotile 5% Amosite 40%	None Detected	Binding Material
B-487	N/A	N/A	N/A	N/A	213	5522-4394-13	White / Insulation / Fibrous / Homogeneous	Chrysotile 20% Amosite 20%	None Detected	Binding Material
Location: Orange coated condensate line throughout dryer building / Taken from 3 <sup>rd</sup> floor at grated floor										
B-488	N/A	N/A	N/A	N/A	213	5522-4394-14	White / Insulation / Fibrous / Homogeneous	Chrysotile 20% Amosite 20%	None Detected	Binding Material
Location: Orange coated condensate line throughout dryer building / Taken from 3 <sup>rd</sup> floor at 3ft elevation										
B-489	N/A	N/A	N/A	N/A	213	5522-4394-15	White / Insulation / Fibrous / Homogeneous	Chrysotile 20% Amosite 20%	None Detected	Binding Material
Location: Orange coated condensate line throughout dryer building / Taken from 3 <sup>rd</sup> floor at 5ft elevation										



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Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-490	N/A	N/A	N/A	N/A	214	5522-4394-16A	Black / Roofing Material / Fibrous / Homogeneous	None Detected	Synthetic 5% Fibrous Glass 5%	Binding Material
Location: Roofing materials from roof of dryer warehouse / Taken from north area of roof										
						5522-4394-16B	Silver,Black / Material / Fibrous / Homogeneous	Chrysotile 5%	None Detected	Binding Material
Location: Roofing materials from roof of dryer warehouse / Taken from east area of roof										
B-491	N/A	N/A	N/A	N/A	214	5522-4394-17	Black / Roofing Material / Fibrous / Homogeneous	None Detected	Synthetic 5% Fibrous Glass 5%	Binding Material
Location: Roofing materials from roof of dryer warehouse / Taken from east area of roof										
B-492	N/A	N/A	N/A	N/A	214	5522-4394-18	Silver,Black / Roofing Material / Fibrous / Homogeneous	None Detected	Synthetic 10%	Binding Material
Location: Roofing materials from roof of dryer warehouse / Taken from west area of roof										
B-493	N/A	N/A	N/A	N/A	215	5522-4394-19	Yellow / Insulation / Fibrous / Homogeneous	None Detected	Fibrous Glass 95%	Binding Material
Location: Dryer body insulation, 1 <sup>st</sup> floor / Taken from east end dryer										



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Job ID / Site: H22-0546 / Eastman Solutia / Dryer Bldg

Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-494	N/A	N/A	N/A	N/A	215	5522-4394-20	Yellow / Insulation / Fibrous / Homogeneous	None Detected	Fibrous Glass 95%	Binding Material
Location: Dryer body insulation, 1 <sup>st</sup> floor / Taken from central dryer										
B-495	N/A	N/A	N/A	N/A	215	5522-4394-21	Yellow / Insulation / Fibrous / Homogeneous	None Detected	Fibrous Glass 95%	Binding Material
Location: Dryer body insulation, 1 <sup>st</sup> floor / Taken from west end dryer										
B-496	N/A	N/A	N/A	N/A	216	5522-4394-22A	White,Silver / Wrap / Fibrous / Homogeneous	None Detected	Cellulose 30% Fibrous Glass 5%	Binding Material
Location: White wrapped utility pipe throughout dryer building / Taken from east end dryer tube area 3ft elevation										
						5522-4394-22B	Yellow / Insulation / Fibrous / Homogeneous	None Detected	Fibrous Glass 95%	Binding Material
B-497	N/A	N/A	N/A	N/A	216	5522-4394-23A	White,Silver / Wrap / Fibrous / Homogeneous	None Detected	Cellulose 30% Fibrous Glass 5%	Binding Material
Location: White wrapped utility pipe throughout dryer building / Taken from east end dryer tube area 5ft elevation										



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Job ID / Site: H22-0546 / Eastman Solutia / Dryer Bldg

Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-497	N/A	N/A	N/A	N/A	216	5522-4394-23B	Yellow / Insulation / Fibrous / Homogeneous	None Detected	Fibrous Glass 95%	Binding Material
Location: White wrapped utility pipe throughout dryer building / Taken from east end dryer tube area 5ft elevation										
B-498	N/A	N/A	N/A	N/A	216	5522-4394-24A	White,Silver / Wrap / Fibrous / Homogeneous	None Detected	Cellulose 30% Fibrous Glass 5%	Binding Material
Location: White wrapped utility pipe throughout dryer building / Taken from east end dryer tube area 7ft elevation										
						5522-4394-24B	Yellow / Insulation / Fibrous / Homogeneous	None Detected	Fibrous Glass 95%	Binding Material
B-499	N/A	N/A	N/A	N/A	217	5522-4394-25	Off White,Grey / Material / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Cream brick and mortar of dryer enclosure building / Taken from east wall										
B-500	N/A	N/A	N/A	N/A	217	5522-4394-26	Off White,Grey / Material / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Cream brick and mortar of dryer enclosure building / Taken from north wall										



**Apex Precision Analytical Services. Inc.**

306 W. Edgewood Dr., Suite D  
Friendswood, TX, 77546

**PLM (Bulk) - Asbestos Analysis Report - Visual ID**  
(EPA Method 600/R-93-116 Visual Area Estimation)

**Turnstone EH & S, Inc. (Houston)**  
1322 Space Park Drive, Suite A155  
Houston, TX 77058  
281-470-0708  
Contact: Luis Hernandez

**Report Number: 5522-4394**  
**Report Date: November 1, 2022**  
**Collection Date: October 25, 2022**  
**Date Received: October 27, 2022**  
**Turn-around time: 72 Hour**

Job ID / Site: H22-0546 / Eastman Solutia / Dryer Bldg

Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-501	N/A	N/A	N/A	N/A	217	5522-4394-27	Off White,Grey / Material / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Cream brick and mortar of dryer enclosure building / Taken from west wall										
B-502	N/A	N/A	N/A	N/A	218	5522-4394-28A	Brown,Silver / Wrap / Fibrous / Homogeneous	None Detected	Cellulose 30% Fibrous Glass 5%	Binding Material
Location: MCC-11, wall insulation / Taken from east wall										
						5522-4394-28B	Yellow / Insulation / Fibrous / Homogeneous	None Detected	Fibrous Glass 95%	Binding Material
B-503	N/A	N/A	N/A	N/A	218	5522-4394-29A	Brown,Silver / Wrap / Fibrous / Homogeneous	None Detected	Cellulose 30% Fibrous Glass 5%	Binding Material
Location: MCC-11, wall insulation / Taken from west wall										
						5522-4394-29B	Yellow / Insulation / Fibrous / Homogeneous	None Detected	Fibrous Glass 95%	Binding Material



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Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-504	N/A	N/A	N/A	N/A	218	5522-4394-30A	Brown,Silver / Wrap / Fibrous / Homogeneous	None Detected	Cellulose 30% Fibrous Glass 5%	Binding Material
Location: MCC-11, wall insulation / Taken from west wall										
						5522-4394-30B	Yellow / Insulation / Fibrous / Homogeneous	None Detected	Fibrous Glass 95%	Binding Material
Location: MCC-11, wall insulation / Taken from west wall										
B-505	N/A	N/A	N/A	N/A	219	5522-4394-31A	Brown,Silver / Wrap / Fibrous / Homogeneous	None Detected	Cellulose 30% Fibrous Glass 5%	Binding Material
Location: Wall insulation of TA-232 bottom enclosure / Taken from north wall										
						5522-4394-31B	Yellow / Insulation / Fibrous / Homogeneous	None Detected	Fibrous Glass 95%	Binding Material
Location: Wall insulation of TA-232 bottom enclosure / Taken from north wall										
B-506	N/A	N/A	N/A	N/A	219	5522-4394-32A	Brown,Silver / Wrap / Fibrous / Homogeneous	None Detected	Cellulose 30% Fibrous Glass 5%	Binding Material
Location: Wall insulation of TA-232 bottom enclosure / Taken from west wall										



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Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-506	N/A	N/A	N/A	N/A	219	5522-4394-32B	Yellow / Insulation / Fibrous / Homogeneous	None Detected	Fibrous Glass 95%	Binding Material
Location: Wall insulation of TA-232 bottom enclosure / Taken from west wall										
B-507	N/A	N/A	N/A	N/A	219	5522-4394-33A	Brown, Silver / Wrap / Fibrous / Homogeneous	None Detected	Cellulose 30% Fibrous Glass 5%	Binding Material
Location: Wall insulation of TA-232 bottom enclosure / Taken from south wall										
						5522-4394-33B	Yellow / Insulation / Fibrous / Homogeneous	None Detected	Fibrous Glass 95%	Binding Material
B-508	N/A	N/A	N/A	N/A	219	5522-4394-34A	Red / Brick / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Red brick and mortar exterior dryer building / Taken from west wall										
						5522-4394-34B	Grey / Mortar / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material



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Job ID / Site: H22-0546 / Eastman Solutia / Dryer Bldg

Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-509	N/A	N/A	N/A	N/A	219	5522-4394-35A	Red / Brick / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Red brick and mortar exterior dryer building / Taken from north wall										
						5522-4394-35B	Grey / Mortar / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Red brick and mortar exterior dryer building / Taken from north wall										
B-510	N/A	N/A	N/A	N/A	219	5522-4394-36A	Red / Brick / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Red brick and mortar exterior dryer building / Taken from south wall										
						5522-4394-36B	Grey / Mortar / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Red brick and mortar exterior dryer building / Taken from south wall										
B-511	N/A	N/A	N/A	N/A	220	5522-4394-37	Green / Material / Fibrous / Homogeneous	None Detected	Fibrous Glass 30%	Binding Material
Location: Green paneling on north side of dryer building exterior / Taken from north side wall										



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Job ID / Site: H22-0546 / Eastman Solutia / Dryer Bldg

Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-512	N/A	N/A	N/A	N/A	220	5522-4394-38	Green / Material / Fibrous / Homogeneous	None Detected	Fibrous Glass 30%	Binding Material
Location: Green paneling on north side of dryer building exterior / Taken from north side wall										
B-513	N/A	N/A	N/A	N/A	220	5522-4394-39	Green / Material / Fibrous / Homogeneous	None Detected	Fibrous Glass 30%	Binding Material
Location: Green paneling on north side of dryer building exterior / Taken from north side wall										
B-514	N/A	N/A	N/A	N/A	221	5522-4394-40	Grey / Material / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Grey foundation of dryer building / Taken from north side of building										
B-515	N/A	N/A	N/A	N/A	221	5522-4394-41	Grey / Material / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Grey foundation of dryer building / Taken from east side of building										
B-516	N/A	N/A	N/A	N/A	221	5522-4394-42	Grey / Material / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Grey foundation of dryer building / Taken from south side of building										



## ASBESTOS BULK ANALYSIS REPORT

Date: November 1, 2022

Turnstone EH & S, Inc. (Houston)

Report: 5522-4393  
H22-0546 / Eastman Solutia / Saflex  
Workshop

This document shall be considered a duly signed original report of the results obtained from the analyses performed. All analyses are done within government guidelines and regulations.

A handwritten signature in black ink, appearing to read 'G.R. Simmons', is positioned above a horizontal line.

Gary R. Simmons  
Laboratory Manager

Lab Comments on Project: N/A

Analytical results and reports are generated by Apex Precision Analytical Services at the request of and for the use of the person or entity (client) named on such report. Result, reports or copies of same will not be released by Apex Precision Analytical Services to any third party without the written request from client. These results only represent the materials submitted. Supporting laboratory documentation is available upon request. This report cannot be used to represent conditions at any other location, date or time and does not imply that this space is free from these or any other contaminants. No responsibility or liability is assumed for the manner in which these results are used or interpreted. This must not be used to claim product endorsement by NVLAP or any government agency of the United States. Apex Precision Analytical Services reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified.



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Turn-around time: 72 Hour

Job ID / Site: H22-0546 / Eastman Solutia / Saflex Workshop

Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-517	N/A	N/A	N/A	N/A	222	5522-4393-01A	Orange / 12x12 Floor Tile / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Brown floor tiles 12x12 throughout Saflex maintenance shop / Taken from I&E shop										
						5522-4393-01B	Black / Mastic / Fibrous / Homogeneous	None Detected	Cellulose 3%	Binding Material
Location: Brown floor tiles 12x12 throughout Saflex maintenance shop / Taken from break room										
B-518	N/A	N/A	N/A	N/A	222	5522-4393-02A	Orange / 12x12 Floor Tile / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Brown floor tiles 12x12 throughout Saflex maintenance shop / Taken from break room										
						5522-4393-02B	Black / Mastic / Fibrous / Homogeneous	None Detected	Cellulose 3%	Binding Material
Location: Brown floor tiles 12x12 throughout Saflex maintenance shop / Taken from bathroom										
B-519	N/A	N/A	N/A	N/A	222	5522-4393-03A	Orange / 12x12 Floor Tile / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Brown floor tiles 12x12 throughout Saflex maintenance shop / Taken from bathroom										



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B-519	N/A	N/A	N/A	N/A	222	5522-4393-03B	Black / Mastic / Fibrous / Homogeneous	None Detected	Cellulose 3%	Binding Material
Location: Brown floor tiles 12x12 throughout Saflex maintenance shop / Taken from bathroom										
B-520	N/A	N/A	N/A	N/A	223	5522-4393-04A	Brown / Baseboard / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Brown base boarding throughout Saflex maintenance shop / Taken from I&E shop										
						5522-4393-04B	Yellow / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
B-521	N/A	N/A	N/A	N/A	223	5522-4393-05A	Brown / Baseboard / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Brown base boarding throughout Saflex maintenance shop / Taken from bathroom										
						5522-4393-05B	Yellow / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material



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Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-522	N/A	N/A	N/A	N/A	223	5522-4393-06A	Brown / Baseboard / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Brown base boarding throughout Saflex maintenance shop / Taken from north supply room										
						5522-4393-06B	Yellow / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Brown base boarding throughout Saflex maintenance shop / Taken from north supply room										
B-523	N/A	N/A	N/A	N/A	224	5522-4393-07	White,Grey / Ceiling Tile / Fibrous / Homogeneous	None Detected	Cellulose 40% Fibrous Glass 20%	Binding Material
Location: White 2'x3' ceiling tiles throughout Saflex maintenance shop / Taken from bathroom										
B-524	N/A	N/A	N/A	N/A	224	5522-4393-08	White,Grey / Ceiling Tile / Fibrous / Homogeneous	None Detected	Cellulose 40% Fibrous Glass 20%	Binding Material
Location: White 2'x3' ceiling tiles throughout Saflex maintenance shop / Taken from north supply room										
B-525	N/A	N/A	N/A	N/A	224	5522-4393-09	White,Grey / Ceiling Tile / Fibrous / Homogeneous	None Detected	Cellulose 40% Fibrous Glass 20%	Binding Material
Location: White 2'x3' ceiling tiles throughout Saflex maintenance shop / Taken from break room										



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B-526	N/A	N/A	N/A	N/A	225	5522-4393-10A	Off White,Silver / Wrap / Fibrous / Homogeneous	None Detected	Cellulose 30% Fibrous Glass 5%	Binding Material
Location: White wrapped utility lines, 2 <sup>nd</sup> floor, Saflex maintenance shop / Taken from southwest corner lines										
						5522-4393-10B	Yellow / Insulation / Fibrous / Homogeneous	None Detected	Fibrous Glass 95%	Binding Material
Location: White wrapped utility lines, 2 <sup>nd</sup> floor, Saflex maintenance shop / Taken from north utility lines										
B-527	N/A	N/A	N/A	N/A	225	5522-4393-11A	Off White,Silver / Wrap / Fibrous / Homogeneous	None Detected	Cellulose 30% Fibrous Glass 5%	Binding Material
Location: White wrapped utility lines, 2 <sup>nd</sup> floor, Saflex maintenance shop / Taken from north utility lines										
						5522-4393-11B	Yellow / Insulation / Fibrous / Homogeneous	None Detected	Fibrous Glass 95%	Binding Material
Location: White wrapped utility lines, 2 <sup>nd</sup> floor, Saflex maintenance shop / Taken from northeast corner lines										
B-528	N/A	N/A	N/A	N/A	225	5522-4393-12A	Off White,Silver / Wrap / Fibrous / Homogeneous	None Detected	Cellulose 30% Fibrous Glass 5%	Binding Material
Location: White wrapped utility lines, 2 <sup>nd</sup> floor, Saflex maintenance shop / Taken from northeast corner lines										



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B-528	N/A	N/A	N/A	N/A	225	5522-4393-12B	Yellow / Insulation / Fibrous / Homogeneous	None Detected	Fibrous Glass 95%	Binding Material
Location: White wrapped utility lines, 2 <sup>nd</sup> floor, Saflex maintenance shop / Taken from northeast corner lines										
B-529	N/A	N/A	N/A	N/A	226	5522-4393-13A	Off White,Silver / Wrap / Fibrous / Homogeneous	None Detected	Cellulose 30% Fibrous Glass 5%	Binding Material
Location: Wrapped wall insulation 2 <sup>nd</sup> floor Saflex maintenance shop / Taken from west wall										
						5522-4393-13B	Yellow / Insulation / Fibrous / Homogeneous	None Detected	Fibrous Glass 95%	Binding Material
B-530	N/A	N/A	N/A	N/A	226	5522-4393-14A	Off White,Silver / Wrap / Fibrous / Homogeneous	None Detected	Cellulose 30% Fibrous Glass 5%	Binding Material
Location: Wrapped wall insulation 2 <sup>nd</sup> floor Saflex maintenance shop / Taken from north wall										
						5522-4393-14B	Yellow / Insulation / Fibrous / Homogeneous	None Detected	Fibrous Glass 95%	Binding Material



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Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-531	N/A	N/A	N/A	N/A	226	5522-4393-15A	Off White,Silver / Wrap / Fibrous / Homogeneous	None Detected	Cellulose 30% Fibrous Glass 5%	Binding Material
Location: Wrapped wall insulation 2 <sup>nd</sup> floor Saflex maintenance shop / Taken from south wall										
						5522-4393-15B	Yellow / Insulation / Fibrous / Homogeneous	None Detected	Fibrous Glass 95%	Binding Material
Location: Cream/white interior brick and mortar Saflex maintenance shop / Taken from break room										
B-532	N/A	N/A	N/A	N/A	227	5522-4393-16	Tan,Grey / Material / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Cream/white interior brick and mortar Saflex maintenance shop / Taken from I&E shop										
B-533	N/A	N/A	N/A	N/A	227	5522-4393-17	Tan,Grey / Material / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Cream/white interior brick and mortar Saflex maintenance shop / Taken from bathroom										
B-534	N/A	N/A	N/A	N/A	227	5522-4393-18	Tan,Grey / Material / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material



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Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-535	N/A	N/A	N/A	N/A	228	5522-4393-19	Brown,White / Wall Board / Fibrous / Homogeneous	None Detected	Cellulose 10%	Binding Material
Location: Wall boarding throughout 1 <sup>st</sup> floor Saflex maintenance shop / Taken from west wall break room										
B-536	N/A	N/A	N/A	N/A	228	5522-4393-20	Brown,White / Wall Board / Fibrous / Homogeneous	None Detected	Cellulose 10%	Binding Material
Location: Wall boarding throughout 1 <sup>st</sup> floor Saflex maintenance shop / Taken from east wall break room										
B-537	N/A	N/A	N/A	N/A	228	5522-4393-21	Brown,White / Wall Covering, Wall Board / Fibrous / Homogeneous	None Detected	Cellulose 10%	Binding Material
Location: Wall boarding throughout 1 <sup>st</sup> floor Saflex maintenance shop / Taken from west wall entrance										
B-538	N/A	N/A	N/A	N/A	228	5522-4393-22	Brown,White / Wall Covering, Wall Board / Fibrous / Homogeneous	None Detected	Cellulose 10%	Binding Material
Location: Wall boarding throughout 1 <sup>st</sup> floor Saflex maintenance shop / Taken from east wall entrance										
B-539	N/A	N/A	N/A	N/A	228	5522-4393-23	Brown,White / Wall Board / Fibrous / Homogeneous	None Detected	Cellulose 10%	Binding Material
Location: Wall boarding throughout 1 <sup>st</sup> floor Saflex maintenance shop / Taken from west wall I&E shop										



**PLM (Bulk) - Asbestos Analysis Report - Visual ID**  
(EPA Method 600/R-93-116 Visual Area Estimation)

**Turnstone EH & S, Inc. (Houston)**  
1322 Space Park Drive, Suite A155  
Houston, TX 77058  
281-470-0708  
Contact: Luis Hernandez

**Report Number: 5522-4393**  
**Report Date: November 1, 2022**  
**Collection Date: October 25, 2022**  
**Date Received: October 27, 2022**  
**Turn-around time: 72 Hour**

Job ID / Site: H22-0546 / Eastman Solutia / Saflex Workshop

Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-540	N/A	N/A	N/A	N/A	229	5522-4393-24	Tan,Grey / Material / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Exterior brick and mortar Saflex maintenance shop / Taken from south wall										
B-541	N/A	N/A	N/A	N/A	229	5522-4393-25	Tan,Grey / Material / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Exterior brick and mortar Saflex maintenance shop / Taken from west wall										
B-542	N/A	N/A	N/A	N/A	229	5522-4393-26	Tan,Grey / Material / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Exterior brick and mortar Saflex maintenance shop / Taken from north wall										



## ASBESTOS BULK ANALYSIS REPORT

Date: November 2, 2022

Turnstone EH & S, Inc. (Houston)

Report: 5522-4417  
H22-0546 / Eastman Solutia / Safley Admin  
Bldg

This document shall be considered a duly signed original report of the results obtained from the analyses performed. All analyses are done within government guidelines and regulations.

A handwritten signature in black ink, appearing to read 'G.R. Simmons', is positioned above a horizontal line.

Gary R. Simmons  
Laboratory Manager

Lab Comments on Project: N/A

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**Apex Precision Analytical Services. Inc.**

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**Turnstone EH & S, Inc. (Houston)**  
1322 Space Park Drive, Suite A155  
Houston, TX 77058  
281-470-0708  
Contact: Luis Hernandez

**Report Number: 5522-4417**  
**Report Date: November 2, 2022**  
**Collection Date: October 27, 2022**  
**Date Received: October 28, 2022**  
**Turn-around time: 72 Hour**

Job ID / Site: H22-0546 / Eastman Solutia / Safley Admin Bldg

Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
P-272	N/A	N/A	N/A	N/A	264	5522-4417-01A	White,Blue / 12x12 Floor Tile / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: White w/ blue specs, 12x12 floor tile southeast office break room central / Taken from southeast area										
						5522-4417-01B	Yellow / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: White w/ blue specs, 12x12 floor tile southeast office break room central / Taken from central room										
P-273	N/A	N/A	N/A	N/A	264	5522-4417-02A	White,Blue / 12x12 Floor Tile / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: White w/ blue specs, 12x12 floor tile southeast office break room central / Taken from central room										
						5522-4417-02B	Yellow / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: White w/ blue specs, 12x12 floor tile southeast office break room central / Taken from northwest area										
P-274	N/A	N/A	N/A	N/A	264	5522-4417-03A	White,Blue / 12x12 Floor Tile / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: White w/ blue specs, 12x12 floor tile southeast office break room central / Taken from northwest area										



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281-470-0708  
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**Collection Date: October 27, 2022**  
**Date Received: October 28, 2022**  
**Turn-around time: 72 Hour**

Job ID / Site: H22-0546 / Eastman Solutia / Safley Admin Bldg

Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
P-274	N/A	N/A	N/A	N/A	264	5522-4417-03B	Yellow / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: White w/ blue specs, 12x12 floor tile southeast office break room central / Taken from northwest area										
P-275	N/A	N/A	N/A	N/A	265	5522-4417-04A	Black / Baseboard / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Black base boarding in southeast office break room central / Taken along east wall										
						5522-4417-04B	Yellow / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
P-276	N/A	N/A	N/A	N/A	265	5522-4417-05A	Black / Baseboard / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Black base boarding in southeast office break room central / Taken along west wall										
						5522-4417-05B	Yellow / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material



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Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
P-277	N/A	N/A	N/A	N/A	265	5522-4417-06A	Black / Baseboard / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Black base boarding in southeast office break room central / Taken along north wall										
						5522-4417-06B	Yellow / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
P-278	N/A	N/A	N/A	N/A	266	5522-4417-07A	White / Paint,Texture / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Throughout Saflex lab wallboard system in office break room central smooth white / Taken from office break room east wall										
						5522-4417-07B	Brown,White / Wall Board / Fibrous / Homogeneous	None Detected	Cellulose 10% Fibrous Glass 2%	Binding Material
P-279	N/A	N/A	N/A	N/A	266	5522-4417-08A	White / Paint,Texture / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Throughout Saflex lab wallboard system in office break room central smooth white / Taken from office break room west wall										



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Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
P-279	N/A	N/A	N/A	N/A	266	5522-4417-08B	Brown,White / Wall Board / Fibrous / Homogeneous	None Detected	Cellulose 10% Fibrous Glass 2%	Binding Material
Location: Throughout Saflex lab wallboard system in office break room central smooth white / Taken from office break room west wall										
P-280	N/A	N/A	N/A	N/A	266	5522-4417-09A	White / Paint,Texture / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Throughout Saflex lab wallboard system in office break room central smooth white / Taken from office break room south wall										
						5522-4417-09B	Brown,White / Wall Board / Fibrous / Homogeneous	None Detected	Cellulose 10% Fibrous Glass 2%	Binding Material
P-281	N/A	N/A	N/A	N/A	266	5522-4417-10A	White / Paint,Texture / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Throughout Saflex lab wallboard system in office break room central smooth white / Taken from main lab area east wall										
						5522-4417-10B	Brown,White / Wall Board / Fibrous / Homogeneous	None Detected	Cellulose 10% Fibrous Glass 2%	Binding Material



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Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
P-282	N/A	N/A	N/A	N/A	266	5522-4417-11A	White / Paint,Texture / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Throughout Saflex lab wallboard system in office break room central smooth white / Taken from office east of main lab										
						5522-4417-11B	Brown,White / Wall Board / Fibrous / Homogeneous	None Detected	Cellulose 10% Fibrous Glass 2%	Binding Material
P-283	N/A	N/A	N/A	N/A	267	5522-4417-12	White,Grey / 2x4 Ceiling Tile / Fibrous / Homogeneous	None Detected	Cellulose 45% Fibrous Glass 15%	Binding Material
Location: 2'x4' Ceiling tile, southeast office break room / Taken from north area ceiling tile										
P-284	N/A	N/A	N/A	N/A	267	5522-4417-13	White,Grey / 2x4 Ceiling Tile / Fibrous / Homogeneous	None Detected	Cellulose 45% Fibrous Glass 15%	Binding Material
Location: 2'x4' Ceiling tile, southeast office break room / Taken from central area ceiling										
P-285	N/A	N/A	N/A	N/A	267	5522-4417-14	White,Grey / 2x4 Ceiling Tile / Fibrous / Homogeneous	None Detected	Cellulose 45% Fibrous Glass 15%	Binding Material
Location: 2'x4' Ceiling tile, southeast office break room / Taken from west area ceiling										



# Apex Precision Analytical Services, Inc.

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## PLM (Bulk) - Asbestos Analysis Report - Visual ID (EPA Method 600/R-93-116 Visual Area Estimation)

Turnstone EH & S, Inc. (Houston)  
1322 Space Park Drive, Suite A155  
Houston, TX 77058  
281-470-0708  
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Turn-around time: 72 Hour

Job ID / Site: H22-0546 / Eastman Solutia / Safley Admin Bldg

Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
P-286	N/A	N/A	N/A	N/A	268	5522-4417-15	Yellow / Foam / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Wall insulation from lab freezer room / Taken from east wall										
P-287	N/A	N/A	N/A	N/A	268	5522-4417-16	Yellow / Foam / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Wall insulation from lab freezer room / Taken from west wall										
P-288	N/A	N/A	N/A	N/A	268	5522-4417-17	Yellow / Foam / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Wall insulation from lab freezer room / Taken from north wall										
P-289	N/A	N/A	N/A	N/A	269	5522-4417-18	White,Grey,Silver / Ceiling Tile / Fibrous / Homogeneous	None Detected	Cellulose 10% Fibrous Glass 50%	Binding Material
Location: White rough ceiling tile throughout Saflex lab / Taken from main lab										
P-290	N/A	N/A	N/A	N/A	269	5522-4417-19	White,Grey,Silver / Ceiling Tile / Fibrous / Homogeneous	None Detected	Cellulose 10% Fibrous Glass 50%	Binding Material
Location: White rough ceiling tile throughout Saflex lab / Taken from lab hallway										



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Job ID / Site: H22-0546 / Eastman Solutia / Safley Admin Bldg

Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
P-291	N/A	N/A	N/A	N/A	269	5522-4417-20	White,Grey,Silver / Ceiling Tile / Fibrous / Homogeneous	None Detected	Cellulose 10% Fibrous Glass 50%	Binding Material
Location: White rough ceiling tile throughout Saflex lab / Taken from lab east office										
P-292	N/A	N/A	N/A	N/A	270	5522-4417-21	Off White,Brown / Ceiling Tile / Fibrous / Homogeneous	None Detected	Cellulose 30% Fibrous Glass 30%	Binding Material
Location: White textured perforated ceiling tiles throughout lab offices / Taken from atrium										
P-293	N/A	N/A	N/A	N/A	270	5522-4417-22	Off White,Brown / Ceiling Tile / Fibrous / Homogeneous	None Detected	Cellulose 30% Fibrous Glass 30%	Binding Material
Location: White textured perforated ceiling tiles throughout lab offices / Taken from offices hallway										
P-294	N/A	N/A	N/A	N/A	270	5522-4417-23	Off White,Brown / Ceiling Tile / Fibrous / Homogeneous	None Detected	Cellulose 30% Fibrous Glass 30%	Binding Material
Location: White textured perforated ceiling tiles throughout lab offices / Taken from west most office										
P-295	N/A	N/A	N/A	N/A	271	5522-4417-24A	Dark Tan / 12x12 Floor Tile / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Dark tan 12x12 floor tile, central lab, also under carpet / Taken from under carpet in lab										



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Job ID / Site: H22-0546 / Eastman Solutia / Safley Admin Bldg

Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
P-295	N/A	N/A	N/A	N/A	271	5522-4417-24B	Black / Mastic / Fibrous / Homogeneous	None Detected	Cellulose 2%	Binding Material
Location: Dark tan 12x12 floor tile, central lab, also under carpet / Taken from under carpet in lab										
P-296	N/A	N/A	N/A	N/A	271	5522-4417-25A	Dark Tan / 12x12 Floor Tile / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Dark tan 12x12 floor tile, central lab, also under carpet / Taken from room center										
						5522-4417-25B	Black / Mastic / Fibrous / Homogeneous	None Detected	Cellulose 2%	Binding Material
P-297	N/A	N/A	N/A	N/A	271	5522-4417-26A	Dark Tan / 12x12 Floor Tile / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Dark tan 12x12 floor tile, central lab, also under carpet / Taken from west wall area										
						5522-4417-26B	Black / Mastic / Fibrous / Homogeneous	None Detected	Cellulose 2%	Binding Material



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Job ID / Site: H22-0546 / Eastman Solutia / Safley Admin Bldg

Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
P-298	N/A	N/A	N/A	N/A	272	5522-4417-27A	Light Tan / 12x12 Floor Tile / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Cream 12x12 floor tile, west Saflex lab / Taken along east wall										
						5522-4417-27B	Black / Mastic / Fibrous / Homogeneous	None Detected	Cellulose 2%	Binding Material
Location: Cream 12x12 floor tile, west Saflex lab / Taken along east wall										
P-299	N/A	N/A	N/A	N/A	272	5522-4417-28A	Light Tan / 12x12 Floor Tile / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Cream 12x12 floor tile, west Saflex lab / Taken along south wall										
						5522-4417-28B	Black / Mastic / Fibrous / Homogeneous	None Detected	Cellulose 2%	Binding Material
Location: Cream 12x12 floor tile, west Saflex lab / Taken along south wall										
P-300	N/A	N/A	N/A	N/A	272	5522-4417-29A	Light Tan / 12x12 Floor Tile / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Cream 12x12 floor tile, west Saflex lab / Taken center of room										



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Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
P-300	N/A	N/A	N/A	N/A	272	5522-4417-29B	Black / Mastic / Fibrous / Homogeneous	None Detected	Cellulose 2%	Binding Material
Location: Cream 12x12 floor tile, west Saflex lab / Taken center of room										
P-301	N/A	N/A	N/A	N/A	273	5522-4417-30A	Tan / Floor Tile / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Tan with black specks in ball drop room floor tile / Taken from east area										
						5522-4417-30B	Black / Mastic / Fibrous / Homogeneous	None Detected	Cellulose 2%	Binding Material
P-302	N/A	N/A	N/A	N/A	273	5522-4417-31A	Tan / Floor Tile / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Tan with black specks in ball drop room floor tile / Taken centrally										
						5522-4417-31B	Black / Mastic / Fibrous / Homogeneous	None Detected	Cellulose 2%	Binding Material



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P-303	N/A	N/A	N/A	N/A	273	5522-4417-32A	Tan / Floor Tile / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Tan with black specks in ball drop room floor tile / Taken from north area										
						5522-4417-32B	Black / Mastic / Fibrous / Homogeneous	None Detected	Cellulose 2%	Binding Material
Location: Tan with black specks in ball drop room floor tile / Taken from north area										
P-304	N/A	N/A	N/A	N/A	274	5522-4417-33A	Off White, Light Tan / Floor Tile / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Cream marbled floor tiles in exam rooms, Saflex admin / Taken from exam room #2, center of room										
						5522-4417-33B	Black / Mastic / Fibrous / Homogeneous	None Detected	Cellulose 2%	Binding Material
Location: Cream marbled floor tiles in exam rooms, Saflex admin / Taken from exam room #2, center of room										
P-305	N/A	N/A	N/A	N/A	274	5522-4417-34A	Off White, Light Tan / Floor Tile / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Cream marbled floor tiles in exam rooms, Saflex admin / Taken from exam room #2, east area										



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**Turn-around time: 72 Hour**

Job ID / Site: H22-0546 / Eastman Solutia / Safley Admin Bldg

Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
P-305	N/A	N/A	N/A	N/A	274	5522-4417-34B	Black / Mastic / Fibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Cream marbled floor tiles in exam rooms, Saflex admin / Taken from exam room #2, east area										
P-306	N/A	N/A	N/A	N/A	274	5522-4417-35A	Off White, Light Tan / Floor Tile / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Cream marbled floor tiles in exam rooms, Saflex admin / Taken from exam room #1, center of room										
						5522-4417-35B	Black / Mastic / Fibrous / Homogeneous	None Detected	None Detected	Binding Material
P-307A	N/A	N/A	N/A	N/A	275	5522-4417-36A	Black / Baseboard / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Black base boarding throughout Saflex admin / Taken from admin atrium										
						5522-4417-36B	Yellow / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material



**PLM (Bulk) - Asbestos Analysis Report - Visual ID**  
(EPA Method 600/R-93-116 Visual Area Estimation)

**Turnstone EH & S, Inc. (Houston)**  
1322 Space Park Drive, Suite A155  
Houston, TX 77058  
281-470-0708  
Contact: Luis Hernandez

**Report Number: 5522-4417**  
**Report Date: November 2, 2022**  
**Collection Date: October 27, 2022**  
**Date Received: October 28, 2022**  
**Turn-around time: 72 Hour**

Job ID / Site: H22-0546 / Eastman Solutia / Safley Admin Bldg

Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
P-307B	N/A	N/A	N/A	N/A	275	5522-4417-37A	Black / Baseboard / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Black base boarding throughout Saflex admin / Taken from admin hallway										
						5522-4417-37B	Yellow / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Black base boarding throughout Saflex admin / Taken from admin hallway										
P-308	N/A	N/A	N/A	N/A	275	5522-4417-38A	Black / Baseboard / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Black base boarding throughout Saflex admin / Taken from admin hallway to lab										
						5522-4417-38B	Yellow / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Black base boarding throughout Saflex admin / Taken from admin hallway										
P-309	N/A	N/A	N/A	N/A	276	5522-4417-39A	Tan / Flooring / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Tan linoleum flooring throughout resin admin / Taken from administration atrium										



**Apex Precision Analytical Services. Inc.**

306 W. Edgewood Dr., Suite D  
Friendswood, TX, 77546

**PLM (Bulk) - Asbestos Analysis Report - Visual ID**  
(EPA Method 600/R-93-116 Visual Area Estimation)

**Turnstone EH & S, Inc. (Houston)**  
1322 Space Park Drive, Suite A155  
Houston, TX 77058  
281-470-0708  
Contact: Luis Hernandez

**Report Number: 5522-4417**  
**Report Date: November 2, 2022**  
**Collection Date: October 27, 2022**  
**Date Received: October 28, 2022**  
**Turn-around time: 72 Hour**

Job ID / Site: H22-0546 / Eastman Solutia / Safley Admin Bldg

Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
P-309	N/A	N/A	N/A	N/A	276	5522-4417-39B	Yellow,Grey / Mastic,Material / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Tan linoleum flooring throughout resin admin / Taken from administration atrium										
P-310	N/A	N/A	N/A	N/A	276	5522-4417-40A	Tan / Flooring / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Tan linoleum flooring throughout resin admin / Taken from main hallway, west										
						5522-4417-40B	Yellow,Grey / Mastic,Material / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
P-311	N/A	N/A	N/A	N/A	276	5522-4417-41A	Tan / Flooring / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Tan linoleum flooring throughout resin admin / Taken from north most office										
						5522-4417-41B	Yellow,Grey / Mastic,Material / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material



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Houston, TX 77058  
281-470-0708  
Contact: Luis Hernandez

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Turn-around time: 72 Hour

Job ID / Site: H22-0546 / Eastman Solutia / Safley Admin Bldg

Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
P-312	N/A	N/A	N/A	N/A	277	5522-4417-42A	White / Texture / Fibrous / Homogeneous	Chrysotile <1%	None Detected	Binding Material
Location: Smooth walling from office spaces / Taken from west most office										
						5522-4417-42B	Brown,White / Wall Board / Fibrous / Homogeneous	None Detected	Cellulose 10%	Binding Material
Location: Smooth walling from office spaces / Taken from west most office										
P-313	N/A	N/A	N/A	N/A	277	5522-4417-43A	White / Texture / Fibrous / Homogeneous	Chrysotile <1%	None Detected	Binding Material
Location: Smooth walling from office spaces / Taken from office hallway										
						5522-4417-43B	Brown,White / Wall Board / Fibrous / Homogeneous	None Detected	Cellulose 10%	Binding Material
Location: Smooth walling from office spaces / Taken from office hallway										
P-314	N/A	N/A	N/A	N/A	277	5522-4417-44A	White / Texture / Fibrous / Homogeneous	Chrysotile <1%	None Detected	Binding Material
Location: Smooth walling from office spaces / Taken from northwest most office										



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**Turnstone EH & S, Inc. (Houston)**  
1322 Space Park Drive, Suite A155  
Houston, TX 77058  
281-470-0708  
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**Turn-around time: 72 Hour**

Job ID / Site: H22-0546 / Eastman Solutia / Safley Admin Bldg

Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
P-314	N/A	N/A	N/A	N/A	277	5522-4417-44B	Brown,White / Wall Board / Fibrous / Homogeneous	None Detected	Cellulose 10%	Binding Material
Location: Smooth walling from office spaces / Taken from northwest most office										
P-315	N/A	N/A	N/A	N/A	277	5522-4417-45A	Tan / Wall Covering / Fibrous / Homogeneous	None Detected	Cellulose 30%	Binding Material
Location: Tan wall boarding throughout resin admin / Taken from admin entrance										
						5522-4417-45B	Brown,White / Wall Board / Fibrous / Homogeneous	None Detected	Cellulose 10%	Binding Material
P-316	N/A	N/A	N/A	N/A	277	5522-4417-46A	Tan / Wall Covering / Fibrous / Homogeneous	None Detected	Cellulose 30%	Binding Material
Location: Tan wall boarding throughout resin admin / Taken from admin east hallway										
						5522-4417-46B	Brown,White / Wall Board / Fibrous / Homogeneous	None Detected	Cellulose 10%	Binding Material



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Houston, TX 77058  
281-470-0708  
Contact: Luis Hernandez

**Report Number: 5522-4417**  
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**Date Received: October 28, 2022**  
**Turn-around time: 72 Hour**

Job ID / Site: H22-0546 / Eastman Solutia / Safley Admin Bldg

Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
P-317	N/A	N/A	N/A	N/A	277	5522-4417-47A	Tan / Wall Covering / Fibrous / Homogeneous	None Detected	Cellulose 30%	Binding Material
Location: Tan wall boarding throughout resin admin / Taken from admin north hallway										
						5522-4417-47B	Brown,White / Wall Board / Fibrous / Homogeneous	None Detected	Cellulose 10%	Binding Material
Location: Tan wall boarding throughout resin admin / Taken from admin north hallway										
P-318	N/A	N/A	N/A	N/A	277	5522-4417-48A	Tan / Wall Covering / Fibrous / Homogeneous	None Detected	Cellulose 30%	Binding Material
Location: Tan wall boarding throughout resin admin / Taken from admin west hallway										
						5522-4417-48B	Brown,White / Wall Board / Fibrous / Homogeneous	None Detected	Cellulose 10%	Binding Material
Location: Tan wall boarding throughout resin admin / Taken from admin west hallway										
P-319	N/A	N/A	N/A	N/A	277	5522-4417-49A	Tan / Wall Covering / Fibrous / Homogeneous	None Detected	Cellulose 30%	Binding Material
Location: Tan wall boarding throughout resin admin / Taken from admin south hallway										



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 1322 Space Park Drive, Suite A155  
 Houston, TX 77058  
 281-470-0708  
 Contact: Luis Hernandez

**Report Number: 5522-4417**  
**Report Date: November 2, 2022**  
**Collection Date: October 27, 2022**  
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**Turn-around time: 72 Hour**

Job ID / Site: H22-0546 / Eastman Solutia / Safley Admin Bldg

Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
P-319	N/A	N/A	N/A	N/A	277	5522-4417-49B	Brown,White / Wall Board / Fibrous / Homogeneous	None Detected	Cellulose 10%	Binding Material
Location: Tan wall boarding throughout resin admin / Taken from admin south hallway										
P-320	N/A	N/A	N/A	N/A	277	5522-4417-50A	Tan / Wall Covering / Fibrous / Homogeneous	None Detected	Cellulose 30%	Binding Material
Location: Tan wall boarding throughout resin admin / Taken from admin north hallway to break room										
						5522-4417-50B	Brown,White / Wall Board / Fibrous / Homogeneous	None Detected	Cellulose 10%	Binding Material
P-321	N/A	N/A	N/A	N/A	277	5522-4417-51A	Tan / Wall Covering / Fibrous / Homogeneous	None Detected	Cellulose 30%	Binding Material
Location: Tan wall boarding throughout resin admin / Taken from admin atrium to shop										
						5522-4417-51B	Brown,White / Wall Board / Fibrous / Homogeneous	None Detected	Cellulose 10%	Binding Material



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**Turn-around time: 72 Hour**

Job ID / Site: H22-0546 / Eastman Solutia / Safley Admin Bldg

Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
P-322	N/A	N/A	N/A	N/A	278	5522-4417-52	White / Material / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Decorative plaster on ceiling in men's and women's locker room / Taken from men's locker room north side										
P-323	N/A	N/A	N/A	N/A	278	5522-4417-53	White / Material / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Decorative plaster on ceiling in men's and women's locker room / Taken from men's locker room centrally										
P-324	N/A	N/A	N/A	N/A	278	5522-4417-54	White / Material / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Decorative plaster on ceiling in men's and women's locker room / Taken from women's locker room centrally										
P-325	N/A	N/A	N/A	N/A	279	5522-4417-55	White,Grey / Material / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: White interior brick and mortar resin admin / Taken from east entrance										
P-326	N/A	N/A	N/A	N/A	279	5522-4417-56	White,Grey / Material / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: White interior brick and mortar resin admin / Taken from hallway to shop										



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Houston, TX 77058  
281-470-0708  
Contact: Luis Hernandez

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Job ID / Site: H22-0546 / Eastman Solutia / Safley Admin Bldg

Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
P-327	N/A	N/A	N/A	N/A	279	5522-4417-57	White,Grey / Material / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: White interior brick and mortar resin admin / Taken from men's room										
P-328	N/A	N/A	N/A	N/A	280	5522-4417-58A	Red / Brick / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Brick and mortar exterior Saflex building / Taken from north wall										
						5522-4417-58B	Grey / Mortar / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
P-329	N/A	N/A	N/A	N/A	280	5522-4417-59A	Red / Brick / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Brick and mortar exterior Saflex building / Taken from east wall										
						5522-4417-59B	Grey / Mortar / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material



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281-470-0708  
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Job ID / Site: H22-0546 / Eastman Solutia / Safley Admin Bldg

Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
P-330	N/A	N/A	N/A	N/A	280	5522-4417-60A	Red / Brick / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Brick and mortar exterior Saflex building / Taken from south wall										
						5522-4417-60B	Grey / Mortar / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material

Turnstone  
EH&S, Inc.  
Chain of  
Custody



**TURNSTONE**  
ENVIRONMENTAL, HEALTH AND SAFETY, INC.

1322 Space Park Dr, Suite A-155  
Houston, Texas 77058

5522-4417

Project # / Name :		H22-0546 - Eastman Solutia - Saflex Admin. Bldg		
<b>TURNAROUND TIME</b>				
<input type="checkbox"/> Same Day		<input type="checkbox"/> 24 Hours		<input checked="" type="checkbox"/> Standard [3 Days]
<input type="checkbox"/> Apply Open Lab Fees				
<small>(NOTE: All Turnaround times are based on the date / time the sample is received by the Laboratory)</small>				
Sample Date	Number of Samples	Type of Sample	Contact Person:	Phone #:
10-27-22	59 60 imp	Bulk	Luis Hernandez	832-946-3602
<b>10-27-22 Special Instructions</b>				
Email results to <a href="mailto:luis.hernandez@turnstoneehs.com">luis.hernandez@turnstoneehs.com</a> & <a href="mailto:michael.ortiz@turnstoneehs.com">michael.ortiz@turnstoneehs.com</a> / write sample description & location on sample results				

Sample Number	Sample Description / Location	Analyte	Time (min.)	Volume L or ml
P-272	See Attached	Asbestos	/	
L	Da ta sheet	L		
P-330				

Date/ Time:	Sampled By:	Relinquished By:	Accepted by:
	J. Powers	J. Powers.	<i>alrin</i>
			10/28/22 0845

## ASBESTOS BULK ANALYSIS REPORT

Date: November 4, 2022

Turnstone EH & S, Inc. (Houston)

Report: 5522-4454  
H22-0546 / Eastman Solutia / Training Center

This document shall be considered a duly signed original report of the results obtained from the analyses performed. All analyses are done within government guidelines and regulations.

A handwritten signature in black ink, appearing to read 'G.R. Simmons', is positioned above a horizontal line.

Gary R. Simmons  
Laboratory Manager

Lab Comments on Project: N/A

Analytical results and reports are generated by Apex Precision Analytical Services at the request of and for the use of the person or entity (client) named on such report. Result, reports or copies of same will not be released by Apex Precision Analytical Services to any third party without the written request from client. These results only represent the materials submitted. Supporting laboratory documentation is available upon request. This report cannot be used to represent conditions at any other location, date or time and does not imply that this space is free from these or any other contaminants. No responsibility or liability is assumed for the manner in which these results are used or interpreted. This must not be used to claim product endorsement by NVLAP or any government agency of the United States. Apex Precision Analytical Services reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified.



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**Turnstone EH & S, Inc. (Houston)**  
1322 Space Park Drive, Suite A155  
Houston, TX 77058  
281-470-0708  
Contact: Luis Hernandez

**Report Number: 5522-4454**  
**Report Date: November 4, 2022**  
**Collection Date: October 28, 2022**  
**Date Received: November 1, 2022**  
**Turn-around time: 72 Hour**

Job ID / Site: H22-0546 / Eastman Solutia / Training Center

Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-568	N/A	N/A	N/A	N/A	288	5522-4454-01A	Tan / 12x12 Floor Tile / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: 12X12 Tan speckled floor tile, learning center, mechanical shop / Taken from center of room										
						5522-4454-01B	Yellow / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: 12X12 Tan speckled floor tile, learning center, mechanical shop / Taken from west side										
B-569	N/A	N/A	N/A	N/A	288	5522-4454-02A	Tan / 12x12 Floor Tile / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: 12X12 Tan speckled floor tile, learning center, mechanical shop / Taken from west side										
						5522-4454-02B	Yellow / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: 12X12 Tan speckled floor tile, learning center, mechanical shop / Taken from east side										
B-570	N/A	N/A	N/A	N/A	288	5522-4454-03A	Tan / 12x12 Floor Tile / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: 12X12 Tan speckled floor tile, learning center, mechanical shop / Taken from east side										



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281-470-0708  
Contact: Luis Hernandez

**Report Number: 5522-4454**  
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**Turn-around time: 72 Hour**

Job ID / Site: H22-0546 / Eastman Solutia / Training Center

Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-570	N/A	N/A	N/A	N/A	288	5522-4454-03B	Yellow / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: 12X12 Tan speckled floor tile, learning center, mechanical shop / Taken from east side										
B-571	N/A	N/A	N/A	N/A	289	5522-4454-04	Off White,Grey / Material / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: White interior brick and mortar of learning center, mechanical shop / Taken from north wall										
B-572	N/A	N/A	N/A	N/A	289	5522-4454-05	Off White,Grey / Material / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: White interior brick and mortar of learning center, mechanical shop / Taken from east wall										
B-573	N/A	N/A	N/A	N/A	289	5522-4454-06	Off White,Grey / Material / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: White interior brick and mortar of learning center, mechanical shop / Taken from south wall										
B-574	N/A	N/A	N/A	N/A	290	5522-4454-07A	Brown / Cove Base / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Brown base boarding, mechanical shop, learning center / Taken along west wall										



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 281-470-0708  
 Contact: Luis Hernandez

**Report Number: 5522-4454**  
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**Turn-around time: 72 Hour**

Job ID / Site: H22-0546 / Eastman Solutia / Training Center

Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-574	N/A	N/A	N/A	N/A	290	5522-4454-07B	Yellow / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Brown base boarding, mechanical shop, learning center / Taken along west wall										
B-575	N/A	N/A	N/A	N/A	290	5522-4454-08A	Brown / Cove Base / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Brown base boarding, mechanical shop, learning center / Taken along east wall										
						5522-4454-08B	Yellow / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
B-576	N/A	N/A	N/A	N/A	290	5522-4454-09A	Brown / Cove Base / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Brown base boarding, mechanical shop, learning center / Taken along south wall										
						5522-4454-09B	Yellow / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material



# Apex Precision Analytical Services. Inc.

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Friendswood, TX, 77546

## PLM (Bulk) - Asbestos Analysis Report - Visual ID (EPA Method 600/R-93-116 Visual Area Estimation)

Turnstone EH & S, Inc. (Houston)  
1322 Space Park Drive, Suite A155  
Houston, TX 77058  
281-470-0708  
Contact: Luis Hernandez

Report Number: 5522-4454  
Report Date: November 4, 2022  
Collection Date: October 28, 2022  
Date Received: November 1, 2022  
Turn-around time: 72 Hour

Job ID / Site: H22-0546 / Eastman Solutia / Training Center

Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-577	N/A	N/A	N/A	N/A	291	5522-4454-10	White,Grey / Ceiling Tile / Fibrous / Homogeneous	None Detected	Cellulose 45% Fibrous Glass 15%	Binding Material
Location: White perforated 12x12 ceiling tile throughout learning center / Taken from main hallway										
B-578	N/A	N/A	N/A	N/A	291	5522-4454-11	White,Grey / Ceiling Tile / Fibrous / Homogeneous	None Detected	Cellulose 45% Fibrous Glass 15%	Binding Material
Location: White perforated 12x12 ceiling tile throughout learning center / Taken from conference room										
B-579	N/A	N/A	N/A	N/A	291	5522-4454-12	White,Grey / Ceiling Tile / Fibrous / Homogeneous	None Detected	Cellulose 45% Fibrous Glass 15%	Binding Material
Location: White perforated 12x12 ceiling tile throughout learning center / Taken from main room										
B-580	N/A	N/A	N/A	N/A	292	5522-4454-13A	Brown / Carpet / Fibrous / Homogeneous	None Detected	Synthetic 90%	Binding Material
Location: Carpeted base boarding throughout learning center / Taken from main hallway										
						5522-4454-13B	Yellow / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material



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B-581	N/A	N/A	N/A	N/A	292	5522-4454-14A	Brown / Carpet / Fibrous / Homogeneous	None Detected	Synthetic 90%	Binding Material
Location: Carpeted base boarding throughout learning center / Taken from showcase room										
						5522-4454-14B	Yellow / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Carpeted base boarding throughout learning center / Taken from conference room										
B-582	N/A	N/A	N/A	N/A	292	5522-4454-15A	Brown / Carpet / Fibrous / Homogeneous	None Detected	Synthetic 90%	Binding Material
Location: Carpeted base boarding throughout learning center / Taken from conference room										
						5522-4454-15B	Yellow / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: White tile 12x12 in break room, utility room, learning center / Taken from center break room										
B-583	N/A	N/A	N/A	N/A	293	5522-4454-16A	Tan / 12x12 Floor Tile / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: White tile 12x12 in break room, utility room, learning center / Taken from center break room										



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Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-583	N/A	N/A	N/A	N/A	293	5522-4454-16B	Black / Mastic / Fibrous / Homogeneous	None Detected	Cellulose 2%	Binding Material
Location: White tile 12x12 in break room, utility room, learning center / Taken from center break room										
B-584	N/A	N/A	N/A	N/A	293	5522-4454-17A	Tan / 12x12 Floor Tile / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: White tile 12x12 in break room, utility room, learning center / Taken from break room entry										
						5522-4454-17B	Black / Mastic / Fibrous / Homogeneous	None Detected	Cellulose 2%	Binding Material
B-585	N/A	N/A	N/A	N/A	293	5522-4454-18A	Tan / 12x12 Floor Tile / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: White tile 12x12 in break room, utility room, learning center / Taken from utility room										
						5522-4454-18B	Black / Mastic / Fibrous / Homogeneous	None Detected	Cellulose 2%	Binding Material



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Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-586	N/A	N/A	N/A	N/A	294	5522-4454-19	Brown,White / Drywall / Fibrous / Homogeneous	None Detected	Cellulose 10% Fibrous Glass 2%	Binding Material
Location: White smooth wall system in storage closet in south conference room / Taken from storage closet wall										
B-587	N/A	N/A	N/A	N/A	294	5522-4454-20A	White / Paint,Texture / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: White smooth wall system in storage closet in south conference room / Taken from storage closet wall										
						5522-4454-20B	Brown,White / Drywall / Fibrous / Homogeneous	None Detected	Cellulose 10% Fibrous Glass 2%	Binding Material
B-588	N/A	N/A	N/A	N/A	294	5522-4454-21A	White / Paint,Texture / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: White smooth wall system in storage closet in south conference room / Taken from storage closet wall										
						5522-4454-21B	Brown,White / Drywall / Fibrous / Homogeneous	None Detected	Cellulose 10% Fibrous Glass 2%	Binding Material



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Job ID / Site: H22-0546 / Eastman Solutia / Training Center

Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-589	N/A	N/A	N/A	N/A	295	5522-4454-22A	White,Silver / Wrap / Fibrous / Homogeneous	None Detected	Cellulose 30% Fibrous Glass 5%	Binding Material
Location: Wall insulation behind metal paneling south side of building / Taken from southwest wall corner										
						5522-4454-22B	Yellow / Insulation / Fibrous / Homogeneous	None Detected	Fibrous Glass 95%	Binding Material
Location: Wall insulation behind metal paneling south side of building / Taken from southwest wall corner										
B-590	N/A	N/A	N/A	N/A	295	5522-4454-23A	White,Silver / Wrap / Fibrous / Homogeneous	None Detected	Cellulose 30% Fibrous Glass 5%	Binding Material
Location: Wall insulation behind metal paneling south side of building / Taken from south wall center										
						5522-4454-23B	Yellow / Insulation / Fibrous / Homogeneous	None Detected	Fibrous Glass 95%	Binding Material
Location: Wall insulation behind metal paneling south side of building / Taken from south wall center										
B-591	N/A	N/A	N/A	N/A	295	5522-4454-24A	White,Silver / Wrap / Fibrous / Homogeneous	None Detected	Cellulose 30% Fibrous Glass 5%	Binding Material
Location: Wall insulation behind metal paneling south side of building / Taken from southeast wall corner										



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Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-591	N/A	N/A	N/A	N/A	295	5522-4454-24B	Yellow / Insulation / Fibrous / Homogeneous	None Detected	Fibrous Glass 95%	Binding Material
Location: Wall insulation behind metal paneling south side of building / Taken from southeast wall corner										
B-592	N/A	N/A	N/A	N/A	296	5522-4454-25	Grey,White, Brown / Wall Covering, Drywall / Fibrous / Homogeneous	None Detected	Cellulose 10% Fibrous Glass 2%	Binding Material
Location: Tan textured wall system throughout learning center / Taken from south conference room, west wall										
B-593	N/A	N/A	N/A	N/A	296	5522-4454-26	Grey,White, Brown / Wall Covering, Drywall / Fibrous / Homogeneous	None Detected	Cellulose 10% Fibrous Glass 2%	Binding Material
Location: Tan textured wall system throughout learning center / Taken from south conference room, east wall										
B-594	N/A	N/A	N/A	N/A	296	5522-4454-27	Grey,White, Brown / Wall Covering, Drywall / Fibrous / Homogeneous	None Detected	Cellulose 10% Fibrous Glass 2%	Binding Material
Location: Tan textured wall system throughout learning center / Taken from conference room west wall										
B-595	N/A	N/A	N/A	N/A	296	5522-4454-28	Grey,White, Brown / Wall Covering, Drywall / Fibrous / Homogeneous	None Detected	Cellulose 10% Fibrous Glass 2%	Binding Material
Location: Tan textured wall system throughout learning center / Taken from main hallway north wall										



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Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-596	N/A	N/A	N/A	N/A	296	5522-4454-29	Grey,White, Brown / Wall Covering, Drywall / Fibrous / Homogeneous	None Detected	Cellulose 10% Fibrous Glass 2%	Binding Material
Location: Tan textured wall system throughout learning center / Taken from main hallway south wall										
B-597	N/A	N/A	N/A	N/A	296	5522-4454-30	Grey,White, Brown / Wall Covering, Drywall / Fibrous / Homogeneous	None Detected	Cellulose 10% Fibrous Glass 2%	Binding Material
Location: Tan textured wall system throughout learning center / Taken from showcase room west wall										
B-598	N/A	N/A	N/A	N/A	296	5522-4454-31	Grey,White, Brown / Wall Covering, Drywall / Fibrous / Homogeneous	None Detected	Cellulose 10% Fibrous Glass 2%	Binding Material
Location: Tan textured wall system throughout learning center / Taken from showcase room north wall										
B-599	N/A	N/A	N/A	N/A	297	5522-4454-32A	Brown,Grey / Carpet / Fibrous / Homogeneous	None Detected	Synthetic 90%	Binding Material
Location: Carpeting throughout learning center / Taken from south conference room										
						5522-4454-32B	Yellow / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material



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Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-600	N/A	N/A	N/A	N/A	297	5522-4454-33A	Brown,Grey / Carpet / Fibrous / Homogeneous	None Detected	Synthetic 90%	Binding Material
Location: Carpeting throughout learning center / Taken from main hallway										
						5522-4454-33B	Yellow / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
B-601	N/A	N/A	N/A	N/A	297	5522-4454-34A	Brown,Grey / Carpet / Fibrous / Homogeneous	None Detected	Synthetic 90%	Binding Material
Location: Carpeting throughout learning center / Taken from showcase room										
						5522-4454-34B	Yellow / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
B-602	N/A	N/A	N/A	N/A	298	5522-4454-35A	Maroon / Brick / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Exterior brick and mortar, learning center / Taken from south wall										



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Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-602	N/A	N/A	N/A	N/A	298	5522-4454-35B	Grey / Mortar / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Exterior brick and mortar, learning center / Taken from south wall										
B-603	N/A	N/A	N/A	N/A	298	5522-4454-36A	Maroon / Brick / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Exterior brick and mortar, learning center / Taken from west wall										
						5522-4454-36B	Grey / Mortar / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
B-604	N/A	N/A	N/A	N/A	298	5522-4454-37A	Maroon / Brick / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Exterior brick and mortar, learning center / Taken from north wall										
						5522-4454-37B	Grey / Mortar / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material



## ASBESTOS BULK ANALYSIS REPORT

Date: November 4, 2022

Turnstone EH & S, Inc. (Houston)

Report: 5522-4453  
H22-0546 / Eastman Solutia / Tech Annex  
Building

This document shall be considered a duly signed original report of the results obtained from the analyses performed. All analyses are done within government guidelines and regulations.

A handwritten signature in black ink, appearing to read 'G.R. Simmons', is positioned above a horizontal line.

Gary R. Simmons  
Laboratory Manager

Lab Comments on Project: N/A

Analytical results and reports are generated by Apex Precision Analytical Services at the request of and for the use of the person or entity (client) named on such report. Result, reports or copies of same will not be released by Apex Precision Analytical Services to any third party without the written request from client. These results only represent the materials submitted. Supporting laboratory documentation is available upon request. This report cannot be used to represent conditions at any other location, date or time and does not imply that this space is free from these or any other contaminants. No responsibility or liability is assumed for the manner in which these results are used or interpreted. This must not be used to claim product endorsement by NVLAP or any government agency of the United States. Apex Precision Analytical Services reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified.



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B-543	N/A	N/A	N/A	N/A	281	5522-4453-01A	Grey,Off-White / 12x12 Floor Tile / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Off white floor tile 12x12 utility room Tech annex / Taken from east side										
						5522-4453-01B	Yellow / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Off white floor tile 12x12 utility room Tech annex / Taken from east side										
B-544	N/A	N/A	N/A	N/A	281	5522-4453-02A	Grey,Off-White / 12x12 Floor Tile / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Off white floor tile 12x12 utility room Tech annex / Taken from south side										
						5522-4453-02B	Yellow / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Off white floor tile 12x12 utility room Tech annex / Taken from south side										
B-545	N/A	N/A	N/A	N/A	281	5522-4453-03A	Grey,Off-White / 12x12 Floor Tile / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Off white floor tile 12x12 utility room Tech annex / Taken from west side										



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B-545	N/A	N/A	N/A	N/A	281	5522-4453-03B	Yellow / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Off white floor tile 12x12 utility room Tech annex / Taken from west side										
B-546	N/A	N/A	N/A	N/A	282	5522-4453-04	White,Grey / Ceiling Tile / Fibrous / Homogeneous	None Detected	Cellulose 45% Fibrous Glass 15%	Binding Material
Location: White perforated ceiling tile throughout Tech annex / Taken from utility room										
B-547	N/A	N/A	N/A	N/A	282	5522-4453-05	White,Grey / Ceiling Tile / Fibrous / Homogeneous	None Detected	Cellulose 45% Fibrous Glass 15%	Binding Material
Location: White perforated ceiling tile throughout Tech annex / Taken from conference room										
B-548	N/A	N/A	N/A	N/A	282	5522-4453-06	White,Grey / Ceiling Tile / Fibrous / Homogeneous	None Detected	Cellulose 45% Fibrous Glass 15%	Binding Material
Location: White perforated ceiling tile throughout Tech annex / Taken from men's room										
B-549	N/A	N/A	N/A	N/A	283	5522-4453-07A	Grey / Baseboard / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Grey base boarding throughout Tech annex / Taken from conference room										



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B-549	N/A	N/A	N/A	N/A	283	5522-4453-07B	Yellow / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Grey base boarding throughout Tech annex / Taken from conference room										
B-550	N/A	N/A	N/A	N/A	283	5522-4453-08A	Grey / Baseboard / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Grey base boarding throughout Tech annex / Taken from lunch room										
						5522-4453-08B	Yellow / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
B-551	N/A	N/A	N/A	N/A	283	5522-4453-09A	Grey / Baseboard / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Grey base boarding throughout Tech annex / Taken from women's room										
						5522-4453-09B	Yellow / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material



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B-552	N/A	N/A	N/A	N/A	284	5522-4453-10	Grey,White, Brown / Wall Covering, Drywall / Fibrous / Homogeneous	None Detected	Cellulose 10% Fibrous Glass 2%	Binding Material
Location: Off white wall system throughout tech annex / Taken from entry way										
B-553	N/A	N/A	N/A	N/A	284	5522-4453-11	Grey,White, Brown / Wall Covering, Drywall / Fibrous / Homogeneous	None Detected	Cellulose 10% Fibrous Glass 2%	Binding Material
Location: Off white wall system throughout tech annex / Taken from southeast most office										
B-554	N/A	N/A	N/A	N/A	284	5522-4453-12	Grey,White, Brown / Wall Covering, Drywall / Fibrous / Homogeneous	None Detected	Cellulose 10% Fibrous Glass 2%	Binding Material
Location: Off white wall system throughout tech annex / Taken from northeast most office										
B-555	N/A	N/A	N/A	N/A	284	5522-4453-13	Grey,White, Brown / Wall Covering, Drywall / Fibrous / Homogeneous	None Detected	Cellulose 10% Fibrous Glass 2%	Binding Material
Location: Off white wall system throughout tech annex / Taken from lunch room										
B-556	N/A	N/A	N/A	N/A	284	5522-4453-14	Grey,White, Brown / Wall Covering, Drywall / Fibrous / Homogeneous	None Detected	Cellulose 10% Fibrous Glass 2%	Binding Material
Location: Off white wall system throughout tech annex / Taken from east hallway north side										



**Apex Precision Analytical Services. Inc.**

306 W. Edgewood Dr., Suite D  
Friendswood, TX, 77546

**PLM (Bulk) - Asbestos Analysis Report - Visual ID**  
(EPA Method 600/R-93-116 Visual Area Estimation)

**Turnstone EH & S, Inc. (Houston)**  
1322 Space Park Drive, Suite A155  
Houston, TX 77058  
281-470-0708  
Contact: Luis Hernandez

**Report Number: 5522-4453**  
**Report Date: November 4, 2022**  
**Collection Date: October 28, 2022**  
**Date Received: November 1, 2022**  
**Turn-around time: 72 Hour**

Job ID / Site: H22-0546 / Eastman Solutia / Tech Annex Building

Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-557	N/A	N/A	N/A	N/A	284	5522-4453-15	Grey,White, Brown / Wall Covering, Drywall / Fibrous / Homogeneous	None Detected	Cellulose 10% Fibrous Glass 2%	Binding Material
Location: Off white wall system throughout tech annex / Taken from east hallway south side										
B-558	N/A	N/A	N/A	N/A	284	5522-4453-16	Grey,White, Brown / Wall Covering, Drywall / Fibrous / Homogeneous	None Detected	Cellulose 10% Fibrous Glass 2%	Binding Material
Location: Off white wall system throughout tech annex / Taken from west hallway south side										
B-559	N/A	N/A	N/A	N/A	285	5522-4453-17A	Multi-Colored / Carpet / Fibrous / Homogeneous	None Detected	Synthetic 90%	Binding Material
Location: Grey/blue carpet throughout tech annex / Taken from east entry										
						5522-4453-17B	Yellow / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
B-560	N/A	N/A	N/A	N/A	285	5522-4453-18A	Multi-Colored / Carpet / Fibrous / Homogeneous	None Detected	Synthetic 90%	Binding Material
Location: Grey/blue carpet throughout tech annex / Taken from east hallway										



**Apex Precision Analytical Services. Inc.**

306 W. Edgewood Dr., Suite D  
Friendswood, TX, 77546

**PLM (Bulk) - Asbestos Analysis Report - Visual ID**  
(EPA Method 600/R-93-116 Visual Area Estimation)

**Turnstone EH & S, Inc. (Houston)**  
1322 Space Park Drive, Suite A155  
Houston, TX 77058  
281-470-0708  
Contact: Luis Hernandez

**Report Number: 5522-4453**  
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**Collection Date: October 28, 2022**  
**Date Received: November 1, 2022**  
**Turn-around time: 72 Hour**

Job ID / Site: H22-0546 / Eastman Solutia / Tech Annex Building

Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-560	N/A	N/A	N/A	N/A	285	5522-4453-18B	Yellow / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Grey/blue carpet throughout tech annex / Taken from east hallway										
B-561	N/A	N/A	N/A	N/A	285	5522-4453-19A	Multi-Colored / Carpet / Fibrous / Homogeneous	None Detected	Synthetic 90%	Binding Material
Location: Grey/blue carpet throughout tech annex / Taken from west entry										
						5522-4453-19B	Yellow / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
B-562	N/A	N/A	N/A	N/A	286	5522-4453-20A	Maroon / Brick / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Exterior brick and mortar tech annex / Taken from north wall										
						5522-4453-20B	Grey / Mortar / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material



**Apex Precision Analytical Services. Inc.**

306 W. Edgewood Dr., Suite D  
Friendswood, TX, 77546

**PLM (Bulk) - Asbestos Analysis Report - Visual ID**  
(EPA Method 600/R-93-116 Visual Area Estimation)

Turnstone EH & S, Inc. (Houston)  
1322 Space Park Drive, Suite A155  
Houston, TX 77058  
281-470-0708  
Contact: Luis Hernandez

Report Number: 5522-4453  
Report Date: November 4, 2022  
Collection Date: October 28, 2022  
Date Received: November 1, 2022  
Turn-around time: 72 Hour

Job ID / Site: H22-0546 / Eastman Solutia / Tech Annex Building

Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-563	N/A	N/A	N/A	N/A	286	5522-4453-21A	Maroon / Brick / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Exterior brick and mortar tech annex / Taken from east wall										
						5522-4453-21B	Grey / Mortar / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Exterior brick and mortar tech annex / Taken from east wall										
B-564	N/A	N/A	N/A	N/A	286	5522-4453-22A	Maroon / Brick / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Exterior brick and mortar tech annex / Taken from south wall										
						5522-4453-22B	Grey / Mortar / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Exterior brick and mortar tech annex / Taken from south wall										
B-565	N/A	N/A	N/A	N/A	287	5522-4453-23	Black / Window Caulking / Fibrous / Homogeneous	None Detected	Cellulose 3%	Binding Material
Location: Black window caulking, exterior, tech annex / Taken from east windows northeast corner										



**PLM (Bulk) - Asbestos Analysis Report - Visual ID**  
 (EPA Method 600/R-93-116 Visual Area Estimation)

**Turnstone EH & S, Inc. (Houston)**  
 1322 Space Park Drive, Suite A155  
 Houston, TX 77058  
 281-470-0708  
 Contact: Luis Hernandez

**Report Number: 5522-4453**  
**Report Date: November 4, 2022**  
**Collection Date: October 28, 2022**  
**Date Received: November 1, 2022**  
**Turn-around time: 72 Hour**

Job ID / Site: H22-0546 / Eastman Solutia / Tech Annex Building

Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
B-566	N/A	N/A	N/A	N/A	287	5522-4453-24	Black / Window Caulking / Fibrous / Homogeneous	None Detected	Cellulose 3%	Binding Material
Location: Black window caulking, exterior, tech annex / Taken from north windows northeast corner										
B-567	N/A	N/A	N/A	N/A	287	5522-4453-25	Black / Window Caulking / Fibrous / Homogeneous	None Detected	Cellulose 3%	Binding Material
Location: Black window caulking, exterior, tech annex / Taken from south windows southeast corner										



**Appendix 3: Spreadsheet Summarizing PLM samples and Homogenous Areas**

**Please see Appendix 3 Attachment sent as a separate Excel Spreadsheet**

## **Appendix 4: Inspector Credentials**

**State of Michigan**  
 Department of Labor and Economic Opportunity  
 Michigan Occupational Safety & Health Administration - Asbestos Program



**Asbestos Inspector**





**Andrew, J. Steranko**  
 526 Forest Lake Drive  
 Taylor Lake Village, TX 77586

**Accreditation Number**  
A60056

**Expiration Date**  
09/26/2023

DOB: 04/06/1962

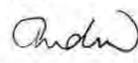
This individual has satisfactorily met or exceeded the requirements of Michigan Public Act 440 of 1988, as amended, to be accredited as an Asbestos Inspector.

Accreditation card is not valid if altered. 161019

Your accreditation card is valid for a period of one year, as indicated by the expiration date on the card. Your card must be present on any project site where you are conducting asbestos-related work. If a replacement card is needed, the replacement fee will be \$25.00.

All questions regarding your accreditation should be directed to 517-284-7096.

Cardholder's Signature Not valid unless signed




Please visit our website at: [www.michigan.gov/asbestos](http://www.michigan.gov/asbestos)

60056-161019



If found please return to:  
 MIOSHA - Asbestos Program  
 530 West Allegan Street  
 P.O. Box 30671  
 Lansing, MI 48933

Information contained in the bar code is limited to ID# and control#.

MIOSHA-CSH-209 (03/18)  
 Authority: Michigan Public Act 440 of 1988, as amended

**98468**

**State of Michigan**  
Department of Labor and Economic Opportunity  
Michigan Occupational Safety & Health Administration - Asbestos Program

MICHIGAN MICHIGAN

**Asbestos Inspector**



**John W. Powers**  
301 North Wesley Drive  
Apartment 315  
League City, TX 77573

**Accreditation Number**  
A60076

**Expiration Date**  
10/11/2023

DOB: 07/01/1992

This individual has satisfactorily met or exceeded the requirements of Michigan Public Act 440 of 1988, as amended, to be accredited as an Asbestos Inspector.

Accreditation card is not valid if altered.

161094

# TURNSTONE

ENVIRONMENTAL, HEALTH AND SAFETY, INC.

*Certifies that*

## Kyle Bihn

**ID: 0636**

*Has attended and satisfied all the requirements of the course entitled:*

**24-Hour Asbestos Building Inspector Initial Training**

**Required by 40 CFR 763, Subpart E, Appendix C (EPA MAP), and TSCA Title II Meets  
the requirements of the Texas Department of State Health Services**

**Certificate #: H21-0873-03**



**Course Instructor**

Date of Training: 12/20-12/22/2021

Expiration Date: 12/22/2022



**Director of Training**

**Training Location: Houston**





Apex Laboratory grab sample results (dated  
August 9, 2023)

## ASBESTOS BULK ANALYSIS REPORT

Date: August 9, 2023

Turnstone EH & S, Inc. (Houston)

Report: 5523-3441  
H23-0597 / Arc Abatement / ELT Solutia

This document shall be considered a duly signed original report of the results obtained from the analyses performed. All analyses are done within government guidelines and regulations.

A handwritten signature in black ink, appearing to read 'G.R. Simmons', is positioned above a horizontal line.

Gary R. Simmons  
Laboratory Manager

Lab Comments on Project: N/A

Analytical results and reports are generated by Apex Precision Analytical Services at the request of and for the use of the person or entity (client) named on such report. Result, reports or copies of same will not be released by Apex Precision Analytical Services to any third party without the written request from client. These results only represent the materials submitted. Supporting laboratory documentation is available upon request. This report cannot be used to represent conditions at any other location, date or time and does not imply that this space is free from these or any other contaminants. No responsibility or liability is assumed for the manner in which these results are used or interpreted. This must not be used to claim product endorsement by NVLAP or any government agency of the United States. Apex Precision Analytical Services reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified.



**PLM (Bulk) - Asbestos Analysis Report - Visual ID**

EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials and EPA – 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples

**Turnstone EH & S, Inc. (Houston)**  
**1322 Space Park Drive, Suite A155**  
**Houston, TX 77058**  
**281-470-0708**  
**Contact: Luis Hernandez**

**Report Number: 5523-3441**  
**Report Date: August 9, 2023**  
**Collection Date: July 27, 2023**  
**Date Received: August 4, 2023**  
**Turn-around time: 72 Hour**

Job ID / Site: H23-0597 / Arc Abatement / ELT Solutia

Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
1	N/A	N/A	N/A	N/A	N/A	5523-3441-01	Off White,Brown / Material / Fibrous / Homogeneous	None Detected	Cellulose 90%	Binding Material
Location: Duct sample #1, air handling units										
2	N/A	N/A	N/A	N/A	N/A	5523-3441-02	Off White,Brown / Material / Fibrous / Homogeneous	None Detected	Cellulose 90%	Binding Material
Location: Pipe sample #2, air handling units										
3	N/A	N/A	N/A	N/A	N/A	5523-3441-03	Off White / Plaster / Fibrous / Homogeneous	None Detected	Cellulose 5%	Binding Material
Location: P. Admin north building wall, conference room #1, sample #100 "plaster"										
4	N/A	N/A	N/A	N/A	N/A	5523-3441-04	Off White / Plaster / Fibrous / Homogeneous	None Detected	Cellulose 5%	Binding Material
Location: P. Admin middle hallway, sample #101 "plaster"										
5	N/A	N/A	N/A	N/A	N/A	5523-3441-05	Off White / Plaster / Fibrous / Homogeneous	None Detected	Cellulose 5%	Binding Material
Location: P. Admin north end hallway, sample #102 "plaster"										



**PLM (Bulk) - Asbestos Analysis Report - Visual ID**

EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials and EPA – 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples

**Turnstone EH & S, Inc. (Houston)**  
**1322 Space Park Drive, Suite A155**  
**Houston, TX 77058**  
**281-470-0708**  
**Contact: Luis Hernandez**

**Report Number: 5523-3441**  
**Report Date: August 9, 2023**  
**Collection Date: July 27, 2023**  
**Date Received: August 4, 2023**  
**Turn-around time: 72 Hour**

Job ID / Site: H23-0597 / Arc Abatement / ELT Solutia

Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
6	N/A	N/A	N/A	N/A	N/A	5523-3441-06A	White,Tan,White / Paint,Compound / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: P. Service building, north end main hallway #103 "plaster"										
						5523-3441-06B	Light Grey / Plaster / Fibrous / Homogeneous	None Detected	Synthetic 3%	Binding Material
7	N/A	N/A	N/A	N/A	N/A	5523-3441-07A	White,Tan,White / Paint,Compound / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: P. Service, unisex restroom westside, sample #104 "plaster"										
						5523-3441-07B	Light Grey / Plaster / Fibrous / Homogeneous	None Detected	Synthetic 3%	Binding Material
8	N/A	N/A	N/A	N/A	N/A	5523-3441-08A	White / Paint,Compound / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Wall systems #1										



**PLM (Bulk) - Asbestos Analysis Report - Visual ID**

EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials and EPA – 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples

**Turnstone EH & S, Inc. (Houston)**  
**1322 Space Park Drive, Suite A155**  
**Houston, TX 77058**  
**281-470-0708**  
**Contact: Luis Hernandez**

**Report Number: 5523-3441**  
**Report Date: August 9, 2023**  
**Collection Date: July 27, 2023**  
**Date Received: August 4, 2023**  
**Turn-around time: 72 Hour**

Job ID / Site: H23-0597 / Arc Abatement / ELT Solutia

Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
8	N/A	N/A	N/A	N/A	N/A	5523-3441-08B	Light Grey / Material / Fibrous / Homogeneous	None Detected	Cellulose 3%	Binding Material
Location: Wall systems #1										
9	N/A	N/A	N/A	N/A	N/A	5523-3441-09A	White / Paint,Compound / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: Wall systems #2										
						5523-3441-09B	Light Grey / Material / Fibrous / Homogeneous	None Detected	Cellulose 3%	Binding Material
10	N/A	N/A	N/A	N/A	N/A	5523-3441-10A	White / Paint,Compound / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: North wall systems										
						5523-3441-10B	Light Grey / Material / Fibrous / Homogeneous	None Detected	Cellulose 3%	Binding Material



Apex

5523-3441

Project # / Job Site/Unit : <b>H23-0597 / ARC Abatement / ELT Solutia</b>				
<b>TURNAROUND TIME</b>				
<input type="checkbox"/> Same Day		<input type="checkbox"/> 24 Hours		<input checked="" type="checkbox"/> Standard [3 Days]
<input type="checkbox"/> Apply Open Lab Fees				
<small>(NOTE: All Turnaround times are based on the date / time the sample is received by the Laboratory.)</small>				
Sample Date	Number of Samples	Type of Sample	Contact Person:	Phone #:
<b>July 27, 2023</b>	<b>Ten (10)</b>	<b>Bulk</b>	<b>Luis Hernandez</b>	<b>832-946-3602</b>
<b>Special Instructions</b>				
Email results to <a href="mailto:luis.hernandez@turnstoneehs.com">luis.hernandez</a> , <a href="mailto:michael.ortiz@turnstoneehs.com">michael.ortiz</a> and <a href="mailto:arnold.peters@turnstoneehs.com">arnold.peters</a> @turnstoneehs.com / write sample description & location on sample results				

Sample Number	Sample Description / Location	Analyte	Time (min.)	Volume L or ml	
1	Duct Sample #1, Air Handling Units	Asbestos			
2	Pipe Sample #2, "				
3	P. Admin North Bldg Wall, Conf. Rm. #1, Sample #100		"Plaster"		
4	P. Admin Middle Hallway, Sample #101		"Plaster"		
5	P. Admin North End Hallway, Sample #102		"Plaster"		
6	P. Service Building, North End Main Hallway #103		"Plaster"		
7	P. Service, Unisex Restroom Westside, Sample #104		"Plaster"		
8	Wall Systems #1				
9	Wall Systems #2				
10	North Wall Systems				

Date/ Time:	Sampled By:	Relinquished By:	Accepted by:
<b>August 4, 2023 /</b>	<b>Client</b>	<b>RAFAEL ZAMORA</b> <i>Rafael Zamora</i> 08/04/23	<b>C. Simmons</b> <i>C. Simmons</i> 8/4/23 1440

\*\* LAB USE ONLY \*\*

Lab Ref No: \_\_\_\_\_

Analyst: \_\_\_\_\_



# Resampling results and analyses (dated November 29, 2024)



# **TURNSTONE EH&S, INC.**

---

## **Asbestos Resampling at Eastman Solutia, Trenton, Michigan**

**FOR WORK PERFORMED AT:  
Eastman Solutia, Trenton, Michigan  
Facility Buildings  
5045 W Jefferson Ave  
Trenton, Michigan 48183**

**TURNSTONE PROJECT NUMBER:  
H24-0795**

**Prepared For:  
FH ARC Abatement Industrial Division  
Mr. Aaron Beacock**

**Report Date: November 29, 2024**

**Prepared by:**



**Andrew Steranko  
Turnstone EH&S, Inc.  
Senior HSE Consultant  
Licensed Michigan Asbestos Inspector (No. A60056)  
EPA Accredited Asbestos Building Inspector**



**1322 Space Park Drive, Suite A155  
Houston, Texas 77058  
281-470-0708**

# Report Introduction

PROJECT NUMBER: H24-0795

## SCOPE OF WORK

Turnstone EH&S, Inc. (Turnstone) was contracted by FH ARC to perform a limited asbestos to address areas of interest highlighted by a Michigan State Inspector. This resampling event was conducted on November 19, 2024, by Andy Steranko (Licensed Michigan Asbestos Inspector (No. A60056)) and Luis Hernandez (EPA MAP Accredited Asbestos Inspector).

## PROJECT LOCATION

All the work described within this report was conducted at the Eastman Solutia, Trenton, Michigan Facility throughout the listed buildings:

1. Service Building
2. Administration Building
3. Learning Center
4. Resins Storage Building
5. Laboratory

## TESTING & METHODOLOGY

Turnstone EH&S, Inc. performed all asbestos sampling in accordance with the appropriate regulatory methodology and/or guidelines as indicated in the table below.

Anal	Method	Description
Asbestos Bulk	EPA Method 600/R-93-116	Bulk samples were collected, placed in separate plastic bags, and labeled with unique identification numbers. Chain-of-custody forms were completed, signed, dated. The samples and chain-of-custody forms were transported to the lab for analysis.

## LABORATORY ANALYSIS

Based on results of the visual observation, suspect ACMs were collected in general accordance with AHERA sampling protocols. Bulk samples were collected, placed in separate plastic bags, and labeled with unique identification numbers. Chain-of-custody forms were completed, signed, dated. The samples and chain-of-custody forms were transported to Apex Precision Analytical Services, Inc. for analysis by polarized light microscopy per EPA methodology EPA/600R-93/116.

# Project Overview

---

PROJECT NUMBER: H24-0795

---

## **SAMPLING PROTOCOL**

The survey was conducted in general accordance with the sample collection protocols established in EPA regulation 40 CFR 763, the Asbestos Hazard Emergency Response Act (AHERA). The existing facility components were assessed to identify suspect ACMs, which were then grouped into three categories according to their intended use:

- Surfacing Materials – material that is sprayed on, troweled on, or otherwise applied to surfaces, such as acoustical plaster on ceilings and fireproofing materials on structural members, or other material on surfaces for acoustical, fireproofing, or other purposes.
- Thermal System Insulation (TSI) – material applied to pipes, fittings, boilers, breeching tanks, ducts, or other interior structural components to prevent heat loss or gain, water condensation, or for other purposes.
- Miscellaneous Materials – interior building materials on structural components, structural members, or fixtures, such as floor and ceiling tiles, but does not include surfacing materials or thermal system insulation.

## **VISUAL ASSESSMENT**

Initial survey activities included visual observation of the interior areas of the facility structures, equipment, piping, and components to identify homogeneous areas of suspect ACM. A homogeneous area consists of materials that appear similar throughout in terms of color, texture and consideration given to date of application. Interior assessment was conducted throughout visually accessible areas of the buildings. Materials identified as glass, wood, masonry, metal or rubber were not considered suspect ACM.

## **PHYSICAL ASSESSMENT**

A physical assessment of each homogeneous area of suspect ACM was conducted to assess the friability and condition of the materials. A friable material is defined by the EPA as a material which can be crumbled, pulverized, or reduced to powder by hand pressure when dry. Friability was assessed by physically touching suspect materials.

## **SAMPLE COLLECTION AND ANALYTICAL**

Based on results of the visual observation, samples of suspect ACMs were collected in general accordance with AHERA sampling protocols. Bulk samples were collected, placed in plastic bags, and labeled with unique identification number. Chain-of-custody forms were completed, signed, dated, and along with the bulk samples transported to Apex Precision Analytical Services, Inc. for analysis by polarized light microscopy per EPA methodology EPA/600R-93/116.

## **REGULATORY OVERVIEW**

The asbestos NESHAP (40 CFR Part 61, Subpart M) and Texas Asbestos Health Protection Rules (Chapter 295, Subchapter C - Texas Administrative Code) regulates asbestos fiber emissions and asbestos waste disposal practices. It also requires the identification and classification of existing building materials prior to demolition or renovation activity. Under NESHAP, asbestos-containing building materials are classified as either friable, Category I non-friable or Category II non-friable ACM. Friable materials are those that, when dry, may be crumbled, pulverized or reduced to powder by hand pressure and contain more than 1% asbestos. Category I non-friable ACM includes packing's, gaskets, resilient floor coverings & associated mastics and asphalt roofing products containing more than 1% asbestos. Category II non-friable ACM are any materials other than Category I materials that contain more than 1% asbestos. Friable ACM, Category I and Category II non-friable ACM which is in poor condition and has become friable or which will be subjected to drilling, sanding, grinding, cutting or abrading and which could be crushed or pulverized during anticipated renovation or demolition activities are considered regulated ACM (RACM).

Before performing any demolition in a facility, facility owners shall ensure that all friable asbestos-containing material (ACM) or ACM which may become friable (i.e. Category II nonfriable ACM) are surveyed and abated in accordance with 40 CFR Part 61, Subpart M. Before performing any renovation in a facility, facility owners are required to survey and perform asbestos abatement for all asbestos-containing building material (ACBM) that could foreseeably be disturbed in the area to be renovated in accordance with these rules. The asbestos survey and abatement for the demolition and/or renovation shall be conducted by persons accredited in accordance with these rules, and according to the standards for removal specified in §§295.58 - 295.60 of this title.

# Survey Limitations

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## DESCRIPTION OF SURVEY AND REPORT LIMITATIONS

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Survey findings and recommendations are subject to the following limitations:

1. This sampling was based on conditions existing at the time the sampling was conducted.
2. The samples collected are representative of the specific time and location where they were collected and may or may not be indicative of all conditions throughout the entire facility.
3. Despite using destructive sampling protocols some areas were not accessible for sampling at the time of the survey. Limitations on confined space entry prevented access to internals of some areas between walls, large equipment, and internal spaces. Access was also limited to equipment and piping joins such as flange faces, friction surfaces, and equipment pads. Special care should be taken to identify suspect materials when accessing these spaces.

The recommendations and conclusions contained within this report represent the best professional judgment of Turnstone EH&S, Inc. based on the data contained herein and should be reviewed in its entirety. Turnstone EH&S, Inc. is not responsible for third party review of this document or for the use of this information outside of its intended purpose.

All occupational health inquiries should be referred to an occupational physician knowledgeable in the chemical and/or physical exposures found in the workplace.

# Survey Results

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PROJECT NUMBER: H24-0795

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## Service Building Summary of Results

Building	HA no.	Sample no.	Description	Sample Result
Service Building	HA-1	SB01	Smooth Plaster Ceiling	None Detected
Service Building	HA-1	SB02	Smooth Plaster Ceiling	None Detected
Service Building	HA-1	SB03	Smooth Plaster Ceiling	None Detected
Service Building	HA-1	SB04	Smooth Plaster Ceiling	None Detected
Service Building	HA-1	SB05	Smooth Plaster Ceiling	None Detected
Service Building	HA-1	SB06	Smooth Plaster Ceiling	None Detected
Service Building	HA-1	SB07	Smooth Plaster Ceiling	None Detected

- All PLM results for Homogeneous Area 1 (HA-1) are “none detected”.

## Admin Building Summary of Results

Building	HA no.	Sample no.	Description	Sample Result
Admin Building	HA-2	ADM14	Textured Plaster Ceiling-1st floor	2% Chrysotile
Admin Building	HA-2	ADM15	Textured Plaster Ceiling-1st floor	2% Chrysotile
Admin Building	HA-2	ADM16	Textured Plaster Ceiling-1st floor	2% Chrysotile
Admin Building	HA-2	ADM17	Textured Plaster Ceiling-1st floor	2% Chrysotile
Admin Building	HA-3	ADM18	Textured Plaster Ceiling-basement	None Detected
Admin Building	HA-3	ADM19	Textured Plaster Ceiling-basement	None Detected
Admin Building	HA-3	ADM20	Textured Plaster Ceiling-basement	None Detected
Admin Building	HA-4	ADM21	Vermiculite-light brown	None Detected
Admin Building	HA-4	ADM22	Vermiculite-light brown	None Detected
Admin Building	HA-5	ADM23	Vermiculite-dark	2% Chrysotile
Admin Building	HA-5	ADM24	Vermiculite-dark	2% Chrysotile
Admin Building	HA-5	ADM25	Vermiculite-dark	2% Chrysotile
Admin Building	HA-6	ADM26	Computer room hockey pucks	None Detected
Admin Building	HA-6	ADM27	Computer room hockey pucks	2% Chrysotile
Admin Building	HA-6	ADM28	Computer room hockey pucks	2% Chrysotile
Admin Building	H7-7	ADM29	Basement ceiling	None Detected
Admin Building	HA-7	ADM30	Basement ceiling	None Detected

- Homogeneous Areas 2 (HA-2) is positive for asbestos. This represents the Textured Plaster Ceiling on the first floor.
- Homogeneous Areas 5 (HA-5) is positive for asbestos. This represents the trace amount of dark colored vermiculite in the back of the building, on the ground near paneled walls.
- Homogeneous Areas 5 (HA-5) is positive for asbestos. This represents the “hockey pucks” white mastic material in the subfloor of the IT room.
- PLM results for Homogeneous Areas 3, 4, and 7 (HA-3, HA-4, and HA-7) are “none detected”.

## Learning Center Summary of Results\

Building	HA no.	Sample no.	Description	Sample Result
Learning Center	HA-8	LC31	Vermiculite from wall cavity	None Detected
Learning Center	HA-8	LC32	Vermiculite from wall cavity	None Detected
Learning Center	HA-8	LC33	Vermiculite from wall cavity	None Detected

- All PLM results for Homogeneous Area 8 (HA-8) are “none detected”.

## Resins Storage Building Summary of Results

Building	HA no.	Sample no.	Description	Sample Result
Resins Storage Building	HA-9	STR34	Wall and ceiling Insulation	None Detected
Resins Storage Building	HA-9	STR35	Wall and ceiling Insulation	None Detected
Resins Storage Building	HA-9	STR36	Wall and ceiling Insulation	None Detected

- All PLM results for Homogeneous Area 9 (HA-9) are “none detected”.

## Laboratory Summary of Results

Building	HA no.	Sample no.	Description	Sample Result
Laboratory	HA-10	LAB37	Laboratory countertop-type 1	None Detected
Laboratory	HA-11	Lab38	Laboratory countertop-type 2	None Detected

- All PLM results for Homogeneous Area 11 (HA-11) are “none detected”.

# Survey Recommendations

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## Survey Conclusion and Recommendations

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Please see Appendix 1 for the Laboratory Analytical Results. Appendix 2 contains photographs of sample locations. Appendix 3 contains inspector credentials.

- As per NESHAP rules, all areas of ACM found to be RACM must be removed from work areas prior to any demolition/renovation activities commence.
- Work Plans must be drafted for the asbestos abatement, demolition procedures, work practices, waste handling and disposal procedures, and asbestos training requirements.
- A NESHAP Competent Person must be present during the entire demolition process to assess materials disturbed by demolition activities that may have been previously not identified and sampled by the survey.
- If any new suspect material(s) are uncovered during the demolition process work must halt and the uncovered material(s) must be treated as PACM until it can be properly analyzed, and the presence of asbestos is either confirmed or refuted.

The recommendations and conclusions contained within this report represent the best professional judgment of Turnstone EH&S, Inc., based on the data contained herein and should be reviewed in its entirety. Turnstone EH&S, Inc. is not responsible for third party review of this document or for the use of this information outside of its intended purpose.

## **Appendix 1: Laboratory Analytical Results**

## ASBESTOS BULK ANALYSIS REPORT

Date: November 21, 2024

Turnstone EH & S, Inc. (Houston)

Report: 5524-5142  
H24-0795 / ARC / Trenton MI – Service  
Building

This document shall be considered a duly signed original report of the results obtained from the analyses performed. All analyses are done within government guidelines and regulations.

A handwritten signature in black ink, appearing to read 'G.R. Simmons', is positioned above a horizontal line.

Gary R. Simmons  
Laboratory Manager

Lab Comments on Project: N/A

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**PLM (Bulk) - Asbestos Analysis Report - Visual ID**

EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials and EPA – 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples

**Turnstone EH & S, Inc. (Houston)**  
**1322 Space Park Drive, Suite A155**  
**Houston, TX 77058**  
**281-470-0708**  
**Contact: Luis Hernandez**

**Report Number: 5524-5142**  
**Report Date: November 21, 2024**  
**Collection Date: November 19, 2024**  
**Date Received: November 20, 2024**  
**Turn-around time: 24 Hour**

Job ID / Site: H24-0795 / ARC / Trenton MI – Service Building

Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
1	N/A	N/A	N/A	N/A	N/A	5524-5142-01	White,Grey / Material / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: SB 01										
2	N/A	N/A	N/A	N/A	N/A	5524-5142-02	White,Grey / Material / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: SB 02										
3	N/A	N/A	N/A	N/A	N/A	5524-5142-03	White,Grey / Material / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: SB 03										
4	N/A	N/A	N/A	N/A	N/A	5524-5142-04	White,Grey / Material / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: SB 04										
5	N/A	N/A	N/A	N/A	N/A	5524-5142-05	White,Grey / Material / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: SB 05										



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Job ID / Site: H24-0795 / ARC / Trenton MI – Service Building

Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
6	N/A	N/A	N/A	N/A	N/A	5524-5142-06	White,Grey / Material / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: SB 06										
7	N/A	N/A	N/A	N/A	N/A	5524-5142-07	White,Grey / Material / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: SB 07										
L										

## ASBESTOS BULK ANALYSIS REPORT

Date: November 21, 2024

Turnstone EH & S, Inc. (Houston)

Report: 5524-5145  
H24-0795 / ARC / Trenton MI - Admin Building

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Gary R. Simmons  
Laboratory Manager

Lab Comments on Project: N/A

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**Date Received: November 20, 2024**  
**Turn-around time: 24 Hour**

Job ID / Site: H24-0795 / ARC / Trenton MI - Admin Building

Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
1	N/A	N/A	N/A	N/A	N/A	5524-5145-01	White,Off White / Material / Fibrous / Homogeneous	Chrysotile 2%	Cellulose 2%	Binding Material
Location: ADM 14										
2	N/A	N/A	N/A	N/A	N/A	5524-5145-02	White,Off White / Material / Fibrous / Homogeneous	Chrysotile 2%	Cellulose 2%	Binding Material
Location: ADM 15										
3	N/A	N/A	N/A	N/A	N/A	5524-5145-03	White,Off White / Material / Fibrous / Homogeneous	Chrysotile 2%	Cellulose 2%	Binding Material
Location: ADM 16										
4	N/A	N/A	N/A	N/A	N/A	5524-5145-04	White,Off White / Material / Fibrous / Homogeneous	Chrysotile 2%	Cellulose 2%	Binding Material
Location: ADM 17										
5	N/A	N/A	N/A	N/A	N/A	5524-5145-05	White,Grey / Material / Fibrous / Homogeneous	None Detected	Cellulose 2%	Binding Material
Location: ADM 18										



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Job ID / Site: H24-0795 / ARC / Trenton MI - Admin Building

Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
6	N/A	N/A	N/A	N/A	N/A	5524-5145-06	White,Grey / Material / Fibrous / Homogeneous	None Detected	Cellulose 2%	Binding Material
Location: ADM 19										
7	N/A	N/A	N/A	N/A	N/A	5524-5145-07	White,Grey / Material / Fibrous / Homogeneous	None Detected	Cellulose 2%	Binding Material
Location: ADM 20										
8	N/A	N/A	N/A	N/A	N/A	5524-5145-08	Gold,Off White / Material / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: ADM 21										
9	N/A	N/A	N/A	N/A	N/A	5524-5145-09	Grey / Material / Fibrous / Homogeneous	None Detected	Synthetic 15%	Binding Material
Location: ADM 22										
10	N/A	N/A	N/A	N/A	N/A	5524-5145-10A	Orange / Floor Tile / Fibrous / Homogeneous	Chrysotile 2%	None Detected	Binding Material
Location: ADM 23										



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Job ID / Site: H24-0795 / ARC / Trenton MI - Admin Building

Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
10	N/A	N/A	N/A	N/A	N/A	5524-5145-10B	Black / Mastic / Fibrous / Homogeneous	Chrysotile 2%	None Detected	Binding Material
Location: ADM 23										
						5524-5145-10C	Brown / Material / Fibrous / Homogeneous	None Detected	Synthetic 15%	Binding Material
11	N/A	N/A	N/A	N/A	N/A	5524-5145-11	Brown / Material / Fibrous / Homogeneous	None Detected	Cellulose 90%	Binding Material
Location: ADM 24										
12	N/A	N/A	N/A	N/A	N/A	5524-5145-12	White, Off White / Material / Fibrous / Homogeneous	Chrysotile 2%	Cellulose 10%	Binding Material
Location: ADM 25										
13	N/A	N/A	N/A	N/A	N/A	5524-5145-13	Yellow / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: ADM 26										



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Job ID / Site: H24-0795 / ARC / Trenton MI - Admin Building

Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
14	N/A	N/A	N/A	N/A	N/A	5524-5145-14A	Yellow / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: ADM 27										
						5524-5145-14B	White, Off White / Material / Fibrous / Homogeneous	Chrysotile 2%	Cellulose 2%	Binding Material
15	N/A	N/A	N/A	N/A	N/A	5524-5145-15A	Yellow / Mastic / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: ADM 28										
						5524-5145-15B	Off White, Black / Material / Fibrous / Homogeneous	Chrysotile 2%	None Detected	Binding Material
16	N/A	N/A	N/A	N/A	N/A	5524-5145-16	Off White / Material / Fibrous / Homogeneous	None Detected	Cellulose 2%	Binding Material
Location: ADM 29										



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Job ID / Site: H24-0795 / ARC / Trenton MI - Admin Building

Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
17	N/A	N/A	N/A	N/A	N/A	5524-5145-17	Grey / Material / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: ADM 30										

## ASBESTOS BULK ANALYSIS REPORT

Date: November 21, 2024

Turnstone EH & S, Inc. (Houston)

Report: 5524-5144  
H24-0795 / ARC / Trenton MI – Miscellaneous

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Gary R. Simmons  
Laboratory Manager

Lab Comments on Project: N/A

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Job ID / Site: H24-0795 / ARC / Trenton MI – Miscellaneous

Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
1	N/A	N/A	N/A	N/A	N/A	5524-5144-01	Black,Gold / Material / Fibrous / Homogeneous	None Detected	Synthetic 2%	Binding Material
Location: LC 31										
2	N/A	N/A	N/A	N/A	N/A	5524-5144-02	Black,Gold / Material / Fibrous / Homogeneous	None Detected	Synthetic 2%	Binding Material
Location: LC 32										
3	N/A	N/A	N/A	N/A	N/A	5524-5144-03	Black,Gold / Material / Fibrous / Homogeneous	None Detected	Synthetic 2%	Binding Material
Location: LC 33										
1	N/A	N/A	N/A	N/A	N/A	5524-5144-04	Off White / Material / Fibrous / Homogeneous	None Detected	Cellulose 90%	Binding Material
Location: STR 34										
2	N/A	N/A	N/A	N/A	N/A	5524-5144-05	Off White / Material / Fibrous / Homogeneous	None Detected	Cellulose 90%	Binding Material
Location: STR 35										



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Job ID / Site: H24-0795 / ARC / Trenton MI – Miscellaneous

Client Sample Number	Unit	Unit Section	Line / Equip#	P&ID/ISO#	HA#	Lab Sample Number (by layer)	Color / Description / Fibrous / NonFibrous / Homogeneity	Asbestos Content Type & %	Non-Asbestos Fiber Type & %	Matrix
3	N/A	N/A	N/A	N/A	N/A	5524-5144-06	Off White / Material / Fibrous / Homogeneous	None Detected	Cellulose 90%	Binding Material
Location: STR 36										
1	N/A	N/A	N/A	N/A	N/A	5524-5144-07	Black / Material / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: LAB 37										
2	N/A	N/A	N/A	N/A	N/A	5524-5144-08	Black / Material / NonFibrous / Homogeneous	None Detected	None Detected	Binding Material
Location: LAB 38										

## **Appendix 2: Photographs**

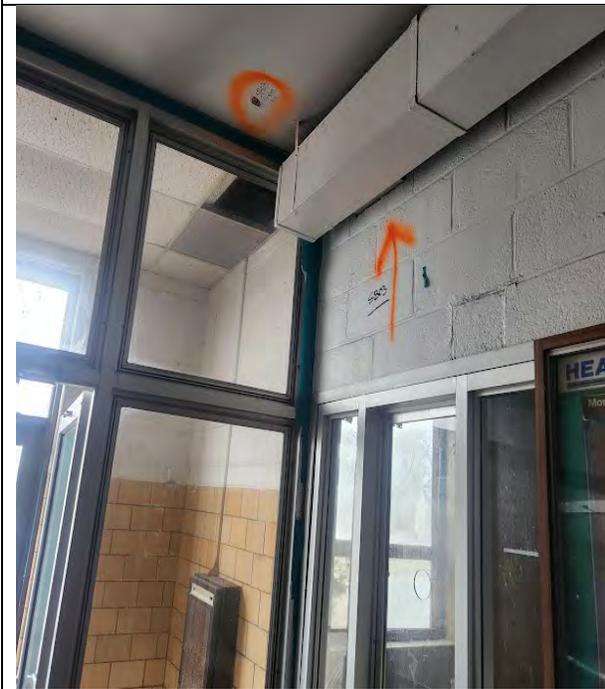
Photo Page  
Support Building



SB01



SB02



SB03



SB04

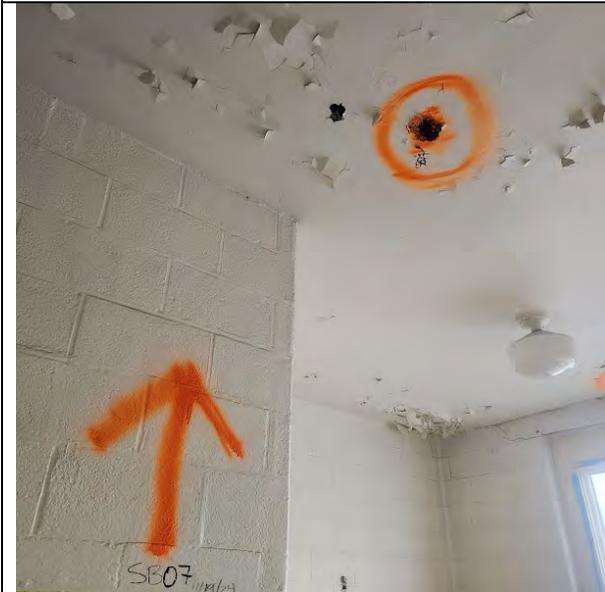
Photo Page  
Support Building



SB05



SB06



SB07

Photo Page

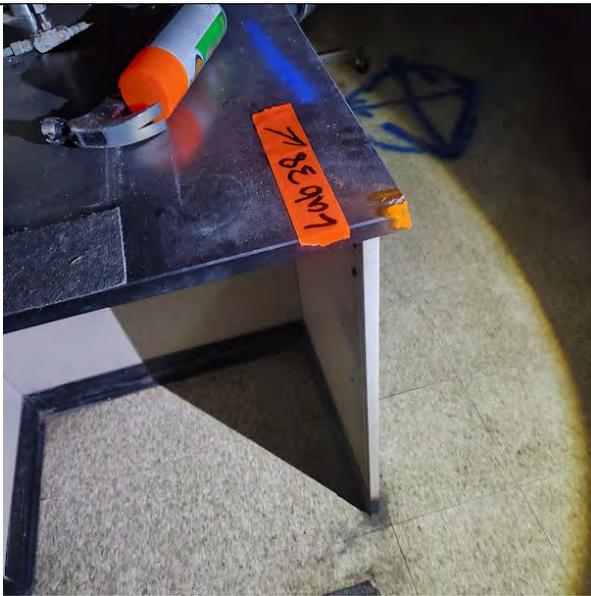
Resins Storage Building and Laboratory



Resins Storage Building-STR34, STR35, STR36



LAB37



LAB38

Photo Page  
Learning Center

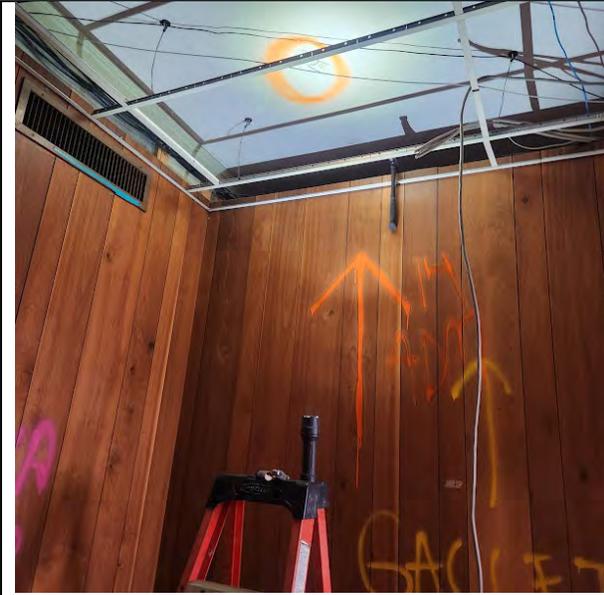


LC31



LC32

Photo Page  
Admin Building



ADM14



ADM15



ADM16



ADM17

Photo Page  
Admin Building



ADM18



ADM20



ADM20



ADM21

Photo Page  
Admin Building



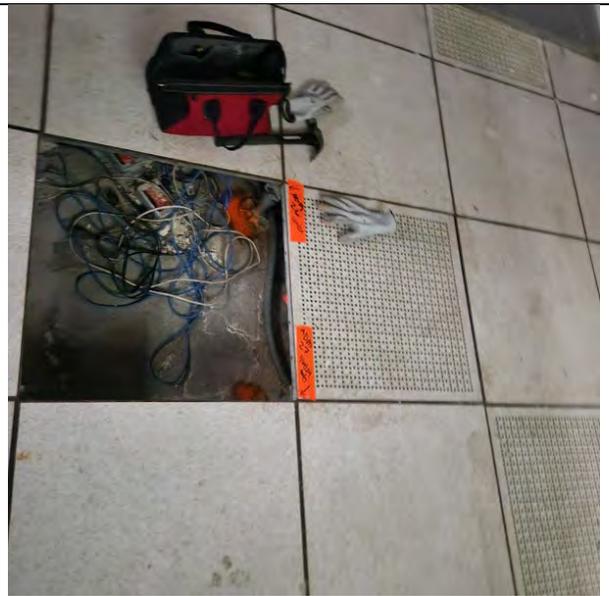
ADM22



ADM24

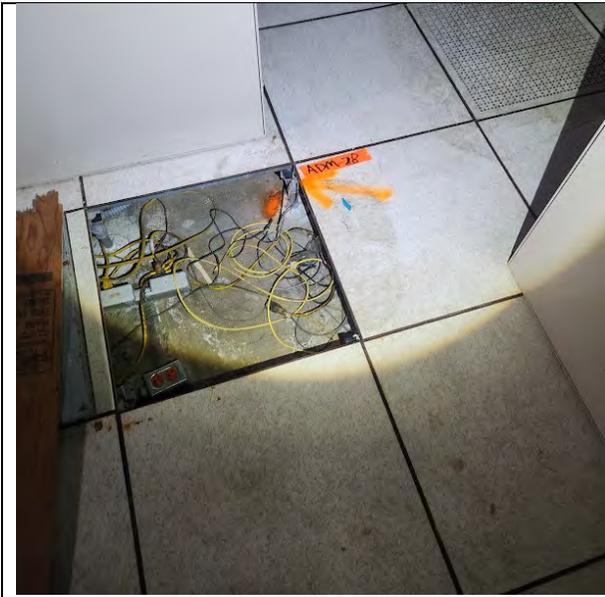


ADM25



ADM26 and ADM27

Photo Page  
Admin Building



ADM28



ADM29

## **Appendix 3: Inspector Credentials**



Asbestos Inspector

**Andrew J. Steranko**  
526 Forest Lake Drive  
Taylor Lake Village, TX 77586



Accreditation Number  
**A60056**

Expiration Date  
**11/07/2025**

DOB: 04/06/1962

This individual has satisfactorily met or exceeded the requirements of Michigan Public Act 440 of 1988, as amended, to be accredited as an Asbestos Inspector.

Accreditation card is not valid if altered. **175061**

Your accreditation card is valid for a period of one year, as indicated by the expiration date on the card. Your card must be present on any project site where you are conducting asbestos-related work. If a replacement card is needed, the replacement fee will be \$25.00.  
All questions regarding your accreditation should be directed to 517-284-7688.

Please visit our website at: [www.michigan.gov/asbestos](http://www.michigan.gov/asbestos)

60056-175061



Information contained in the bar code is limited to ID# and control#.

If found please return to:  
MIOSHA - Asbestos Program  
530 West Allegan Street  
P.O. Box 30671  
Lansing, MI 48933

MIOSHA-CSH-269 (03/18)  
Authority: Michigan Public Act 440 of 1988, as amended

112391



## Crawl space inspection photos



Photo 1 – View of crawl space piping, Copper Line that was abated using glove bag method  
Note location of 480V Box.



Photo 2 – Electrical Boxes with residual splatter not in ARC Scope. Note location of 480V Box.