

ENVIRONMENTAL WIPE SAMPLING ASSESSMENT

PROJECT Tallaboa Industrial Park Site's Sorroundings and Background Investigation Peñuelas, PR

> Prepared by: Best Environmental Consultants, Inc. Lead-Asbestos Consultants PO Box 560180 Guayanilla, PR 00656-0180

Prepared for: Homeca Recycling Center Co., Inc. and Tallaboa Industrial Park, LLC

June 4, 2017

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I. Introduction:

On May 23, 2017 wipe sampling was performed at locations in the vicinity of the Tallaboa Industrial Park's Site and other locations at a distance from this site which should serve as background concentrations for the investigation of asbestos fibers in the area. This investigation was performed by Carlos Ocasio, Asbestos Inspector and Project Designer licensed (Licenses numbers: ASB09160497SI/ASB11160578PD). The procedure for selecting the sample locations followed, in general terms, those in the investigation conducted by the U.S. Environmental Protection Agency (EPA) in 2013 and 2014, as part of the removal assessment. Wipe samples for asbestos dust were performed as requested by HOMECA Recycling Center Co., Inc. (Homeca) and Tallaboa Industrial Park, LLC (TIP).

This wipe sampling and indirect analysis test method is used for the general testing of surfaces for asbestos. It is used to assist in the evaluation of surfaces in buildings, such as ceiling tiles, shelving, electrical components, duct work, and so forth. This test method provides an index of the concentration of asbestos structures per unit area sampled as derived from a quantitative measure of the number of asbestos structures detected during analysis.

At present, a single direct relationship between asbestos sampled from a surface and potential human exposure does not exist. Accordingly, the user should consider these data in relationship to other available information (for example, air sampling data) in their evaluation.



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II. Scope of the Standard Test Method for Wipe Sampling

- This test method covers a procedure to identify asbestos in samples wiped from surfaces and to provide an estimate of the concentration of asbestos reported as the number of asbestos structures per unit area of sampled surface. The procedure outlined in this test method employs an indirect sample preparation technique. It is intended to disperse aggregated asbestos into fundamental fibrils, fiber bundles, clusters, or matrices. However, as with all indirect sample preparation techniques, the asbestos observed for quantification may not represent the physical form of the asbestos as sampled. More specifically, the procedure described neither creates nor destroys asbestos, but it may alter the physical form of the mineral fiber aggregates.
- 2. This test method describes the equipment and procedures necessary for wipe sampling of surfaces for levels of asbestos structures. The sample is collected onto a particle-free wipe material (wipe) from the surface of a sampling area that may contain asbestos.
- The collection efficiency of this wipe sampling technique is unknown and will vary among substrates. Properties influencing collection efficiency include surface texture, adhesiveness, and other factors.
- 4. This test method is generally applicable for an estimate of the surface loading of asbestos structures starting from approximately 1000 asbestos structures per square centimeter.



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- Asbestos identification by transmission electron microscopy (TEM) is based on morphology, electron diffraction (ED), and energy dispersive X-ray analysis (EDXA).
- 6. This test method allows determination of the type(s) of asbestos fibers present.
- 7. This test method cannot always discriminate between individual fibers of the asbestos and non-asbestos analogues of the same amphibole mineral.
- 8. There is no lower limit to the dimensions of asbestos fibers that can be detected. However, in practice, the lower limit to the dimensions of asbestos fibers, that can be detected, is variable and dependent on individual microscopists. Therefore, a minimum length of 0.5 μm has been defined as the shortest fiber to be incorporated in the reported results.
- 9. This test method does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this test method to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.



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III. Reference Documents

 A. ASTM Standards: ASTM D6480-05(2010), Standard Test Method for Wipe Sampling of Surfaces, Indirect Preparation, and Analysis for Asbestos Structure Number
Concentration by Transmission Electron Microscopy, ASTM International, West
Conshohocken, PA, 2010

B. Government Standard: 40 CFR 763, USEPA, Asbestos-Containing Materials in Schools:
Final Rule and Notice, Appendix A to Sub-Part E.

IV. General Background

Asbestos was used in the construction 1900 to 1989. It is still being used today in various products. The health effects of asbestos have been studied since the 1930's. More health studies have been conducted in asbestos than any other natural substance. The mere presence of asbestos containing materials does not necessarily constitute a health hazard. However, when these materials become disturbed from building renovation, maintenance, or other every day activities that allow fibers to be released into the environment, a potential hazard does exist.

The relationship between exposure level and health risk is very complex. Although this relationship is not completely understood, asbestos exposure has been associated with various types of lung diseases including a debilitating lung disease called Asbestosis; a rare cancer of chest called Mesothelioma; and cancers of the esophagus, stomach, colon and other organs. Asbestosis



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is not fatal; it is, however, incurable. One who has it cannot breathe easily and physical activity becomes limited. Mesothelioma is 100% fatal, as there is no cure. These diseases can be directly linked to the mineral of asbestos in the particle form that can be found in the lining of the lung and stomach, since the body cannot absorb these minerals. Tests have determined that asbestos can cause cancer, but scientists disagree on the amount of asbestos fibers that must be inhaled to cause cancer. The nose filters out all visible particles. Therefore, only the microscopic fibers are the ones who cause the problem.

Studies indicate different health effect resulting from exposure to chrysotile asbestos versus exposure to amphibole form of asbestos. The latter, which include tremolite, amosite, actinolite, athophyllite and crocidolite have more significant health impact than chrysotile. Some scientists' studies conclude that the dimensions of the fiber determine which ones enter in the lung area, resulting in cancer. Long, thin fibers, greater than 8 microns (μ m) in length and less than 0.25 microns in diameter show the highest potential of cancer development.

V. Selection of Sampling Locations

For the selection of sampling locations, several documents were used. These are:

 Weston Solutions, Inc. reports identified as Phase I, II, IIIA to IIID and IV for the Removal Assessment of the Puerto Rico Olefins Asbestos Site, in Peñuelas, Puerto Rico, from December 2013 to May 2014 under EPA Contract No. EP-W-06-072;



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- The Atmospheric Assessment Group report titled Sources of Asbestos Chrysotile Structures Along PR2-The Contribution of Asbestos Mineral Contained in Brake Pads, Brake Shoes and Lining Materials to the Levels of Asbestos Structures Determined to be Present in the Tallaboa-Encarnación Auto, July 2014;
- EPA's Memorandum by Chuck Nace, Environmental Toxicologist, ERRD/PSB/TSS, dated November 6, 2014, Re: Technical Review of "Sources of Asbestos Chrysotile Structures Along PR2";
- Analytical Environmental Services International, Inc. report titled Report of Initial Fingerprinting Findings Related to Puerto Rico Olefin Site, Peñuelas, Puerto Rico, dated February 2015;
- EPA's letter dated May 29, 2015, signed Chloe Metz, Chief, Technical Support Section, Emergency and Remedial Response Division and addressed to Rafael A. Toro Ramírez, Re: Report of Initial Fingerprinting Findings, Puerto Rico Olefin Site, Peñuelas, Puerto Rico; and
- Final Report, Administrative Settlement Agreement and Order of Consent for a Removal Action, Index No. CERCLA-02-2014-2014, by SAQ Environmental Engineers, Inc., dated October 9, 2014.



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Based on these reports and the fact that EPA conducted investigations that lead to the clean-up of the Jorge Valdivieso School and the Encarnación Ward Head Start, were based on wipe sampling procedures and their corresponding analytical test, the sample procedure was selected in this investigation. In order to determine the asbestos fibers concentration, using wipe sampling techniques, locations were selected in the mentioned school and Head Start, both of which had already been cleaned-up to the satisfaction of the EPA. In addition, sampling locations were selected at distances from the TIP site, in locations similar to the ones where background data was investigated and developed by the EPA. Also, these distance locations were selected to investigate the current concentrations were the findings form the above-mentioned reports.

The overall goal of the sampling collection locations is to determine the existing conditions at these locations.

VI. Project Identification/ Description

The ten (10) wipe samples were taken at selected locations. The samples were distributed along Ponce, Guayanilla and Peñuelas, PR. The specific locations with their coordinates are included in Figures 1 thru 5. Samples were taken and analyzed by US ASTM D6480-05: TEM, by CEI Labs in North Carolina (CEI Lab Code T17-1049).



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| Sample ID | Sample | Matrix | Asbestos | Asbestos | Sample |
|-----------------|---------------------|--------|---------------|------------|--------------------------|
| | Area | | Туре | Structures | Concentration |
| 136-052317-W-01 | 100 cm ² | Wipe | None Detected | 0 | <980 s/cm ² |
| 136-052317-W-02 | 100 cm ² | Wipe | Chrysotile | 34 | 33,000 s/cm ² |
| 136-052317-W-03 | 100 cm ² | Wipe | Chrysotile | 2 | 2,000 s/cm ² |
| 136-052317-W-04 | 100 cm ² | Wipe | Chrysotile | 28 | 27,000 s/cm ² |
| 136-052317-W-05 | 100 cm ² | Wipe | Chrysotile | 1 | 980 s/cm ² |
| 136-052317-W-06 | 100 cm ² | Wipe | Chrysotile | 21 | 21,000 s/cm ² |
| 136-052317-W-07 | 100 cm ² | Wipe | Chrysotile | 26 | 25,000 s/cm ² |
| 136-052317-W-08 | 100 cm ² | Wipe | Chrysotile | 20 | 20,000 s/cm ² |
| 136-052317-W-09 | 100 cm ² | Wipe | Chrysotile | 9 | 18,000 s/cm ² |
| 136-052317-W-10 | 100 cm ² | Wipe | Chrysotile | 23 | 45,000 s/cm ² |

VII. Summary of Wipe Sampling and Analyses Results

als Casio

Carlos Ocasio Asbestos Inspector/Project Design ASB-0916-0497-SI ASB-1116-0578-PD



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APPENDIX I CREDENTIALS



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CERTIFIED ACM INSPECTOR/PROJECT DESIGNER ENVIRONMENTAL QUALITY BOARD OF PUERTO RICO







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Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 101768-0

CEI Labs, Inc.

Cary, NC

is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for:

Asbestos Fiber Analysis

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).

2017-04-01 through 2018-03-31

Effective Dates



For the National Voluntary Laboratory Accreditation Program 15 Page 13 of 39 National Voluntary



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

CEI Labs, Inc.

730 SE Maynard Road Cary, NC 27511 Dr. Tianbao Bai Phone: 919-481-1413 Fax: 919-481-1442 Email: bai@ceilabs.com http://www.ceilabs.com

ASBESTOS FIBER ANALYSIS

NVLAP LAB CODE 101768-0

Bulk Asbestos Analysis

| <u>Code</u> | <u>Description</u> |
|-------------|--|
| 18/A01 | EPA Appendix E to Subpart E of Part 763 Interim Method of the Determination of Asbestos in Bulk Insulation Samples |
| 18/A03 | EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials |

Airborne Asbestos Analysis

<u>Code</u>

18/A02

<u>Description</u>

U.S. EPA's "Interim Transmission Electron Microscopy Analytical Methods-Mandatory and Nonmandatory-and Mandatory Section to Determine Completion of Response Actions" as found in 40 CFR, Part 763, Subpart E, Appendix A.

For the National Voluntary Laboratory Accreditation Program

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APPENDIX II ANALYTICAL RESULTS



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May 31, 2017

Best Environmental Consultants PO Box 560180 Guayanilla , PR 00656-0180

| CLIENT PROJECT: | Puerto Rico Olefins Penuelas PR |
|-----------------|---------------------------------|
| CEI LAB CODE: | T17-1049 |

Dear Customer:

Enclosed are asbestos analysis results for TEM dust wipe samples received at our laboratory on May 26, 2017. The samples were analyzed for asbestos using transmission electron microscopy (TEM) per ASTM D6480-05 Method.

Currently, there is no regulatory limit for asbestos in dust. The analytical sensitivity for the ASTM D6480-05 method is 1,000 structures per square centimeter.

Thank you for your business and we look forward to continuing good relations. If you have any questions, please feel free to call our office at 919-481-1413.

Kind Regards,

hansas Di

Tianbao Bai, Ph.D., CIH Laboratory Director



ASBESTOS ANALYTICAL REPORT By: Transmission Electron Microscopy

Prepared for

Best Environmental Consultants

CLIENT PROJECT: Puerto Rico Olefins Penuelas PR

CEI LAB CODE: T17-1049

TEST METHOD: Dust Wipe ASTM D6480-05

REPORT DATE: 05/31/17

TEL: 866-481-1412

www.ceilabs.com



ASBESTOS DUST ANALYSIS

By: TRANSMISSION ELECTRON MICROSCOPY

Client: Best Environmental Consultants PO Box 560180 Guayanilla , PR 00656-0180

CEI Lab Code:T17-1049Date Received:05-26-17Date Analyzed:05-31-17Date Reported:05-31-17

Project: Puerto Rico Olefins Penuelas PR

TEM DUST WIPE (ASTM D6480-05) Area Area Analytical **Client ID** Sampled Analyzed Sensitivity # of Asbestos Concentration Filtration Lab ID (cm²) (mm²) Factor (s/cm²) Structures (s/cm²) Туре 136-052317-100 0.098 10 980 0 None <980 Detected W-01 T63119 100 0.098 10 980 34 Chrysotile 33,000 136-052317-W-02 T63120 10 2 136-052317-100 0.098 980 Chrysotile 2,000 W-03 T63121 100 0.098 10 980 28 27,000 Chrysotile 136-052317-W-04 T63122 Chrysotile 100 0.098 10 980 1 980 136-052317-W-05 T63123 136-052317-100 0.098 10 980 21 Chrysotile 21,000 W-06 T63124 0.098 10 26 Chrysotile 136-052317-100 980 25,000 W-07 T63125 10 20 136-052317-100 0.098 980 Chrysotile 20,000 W-08 T63126 0.098 20 9 136-052317-100 2,000 Chrysotile 18,000 W-09 T63127

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ASBESTOS DUST ANALYSIS

By: TRANSMISSION ELECTRON MICROSCOPY

Client: Best Environmental Consultants PO Box 560180 Guayanilla , PR 00656-0180

CEI Lab Code:T17-1049Date Received:05-26-17Date Analyzed:05-31-17Date Reported:05-31-17

Project: Puerto Rico Olefins Penuelas PR

TEM DUST WIPE (ASTM D6480-05)

| Client ID Lab ID | Area Sampled (cm ²) | Area Analyzed (mm ²) | Filtration Factor | Analytical Sensitivity (s/cm²) | # of Structures | Asbestos Type | Concentration (s/cm²) |
|-------------------------------|---------------------------------------|--|----------------------|--------------------------------------|--------------------|------------------|--------------------------|
| 136-052317- W-10 T63128 | 100 | 0.098 | 20 | 2,000 | 23 | Chrysotile | 45,000 |
| 136-052317- W11 T63149 | Blank | 0.098 | 10 | | 0 | None Detected | |



LEGEND: None

METHOD: ASTM D6480-05

ANALYTICAL SENSITIVITY: 1,000 structures/cm²

REGULATORY LIMIT: None

This report relates only to the samples tested or analyzed and may not be reproduced, except in full, without written approval by CEI Labs, Inc. CEI Labs makes no warranty representation regarding the accuracy of client submitted information in preparing and presenting analytical results. Interpretation of the analytical results is the sole responsibility of the client. Estimated measurement of uncertainty is available on request. Samples were received in acceptable condition unless otherwise noted.

ANALYST: Kamila Reichert APPROVED BY: In Tianbao Bai, Ph.D., CIH Laboratory Director

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Best Environmental Consultants Inc.

PO BOX 560180, GUAYANILLA PR 00656-0180

CHAIN OF CUSTODY(TRANSMITAL SHEET FOR SAMPLES)

TI7-1048 TU3118-128 () coc#: 136-052317-TEM-W

| Customer Name: | Homeca Recycling | | | Project Name: | Puerto Ric | co Olefins P | Peñuelas PR. | | | | | | | |
|------------------------|---|----------------|--|--|---------------|---------------|------------------------|------------|--------------------------------|------------|-----|-----|----|--|
| Contact: | Benjamin Cintron | Total Samples: | | h., | 11 | Job Numl | Job Number: JN-0136 | | | | | | | |
| Phone/Fax/E-mail: | 787-548-5494 | \square | nan | EQB Certified Insp | ector ID: | AS | SB-0916-0497-SI | Remarks: | | | | | | |
| Collected by: | Carlos E. Ocasio Felia | ciano Calle | R. Claste | Structure Address: | | | | | | | | | | |
| Analized by Lab: | Cei Labs Inc. | | | Project | · Puarto Pia | o Olafins I | Definalas PR | | Wipe Analysis by ASTM D6480-05 | | | | | |
| AIHA Lab ID: | | | | | . I derio Ric | to Olejins, I | enuelus I K. | | | | | | | |
| Project Description: | Wipe Sampling Event Analyzed by ASTM D6480-05 | | | | | | | | | | | | | |
| Sample No. | Date | Time | | S | ample Desci | ription | | | Sample Type: | | | | | |
| 136-052317-W-01 | May 23, 2017 | 14:30 | Wip | e Floor Sample 10 | cm X 10cm, | In side Hea | ad Start, Tallaboa | | X | | | | | |
| 136-052317-W-02 | May 23, 2017 | 14:43 | Wipe Floor S | ample 10cm X 10c | cm, Out side | e, Main Ent | rance,Head Start Ta | llaboa | x | - | | | l. | |
| 136-052317-W-03 | May 23, 2017 | 15:25 | Wipe Flo | oor Sample 10cm) | K 10cm, Exte | erior, 17º 5 | 8' 33"N 66° 41' 29" | 0 | x | | | | | |
| 136-052317-W-04 | May 23, 2017 | 15:33 | Wipe Flo | Wipe Floor Sample 10cm X 10cm, Exterior, 17° 58' 60"N 66° 42' 22"O | | | | | | | | | l. | |
| 136-052317-W-05 | May 23, 2017 | 15:58 | Wipe Floor S | Wipe Floor Sample 10cm X 10cm, Lunch Room, Jorge Lucas Valdivieso School | | | | | | | | | | |
| 136-052317-W-06 | May 23, 2017 | 16:20 | Wipe Floor Samp | ble 10cm X 10cm, I | unch Room | , Entrance | Jorge Lucas Valdivie | eso School | x | | | | | |
| 136-052317-W-07 | May 23, 2017 | 16:35 | Wipe F | loor Sample 10cm | X 10cm, Ext | terior, 18º | 2' 2"N 66º 43' 25" C |) | х | | | | | |
| 136-052317-W-08 | May 23, 2017 | 16:50 | Wipe Flo | oor Sample 10cm | X 10cm, Exte | erior, 18º 1 | L' 50''N 66° 43' 45" (| C | x | | | | | |
| 136-052317-W-09 | May 23, 2017 | 17:30 | Wipe F | Wipe Floor Sample 10cm X 10cm, Exterior, 18° 2' 19"N 66° 48' 3" O | | | | | | | | | | |
| 136-052317-W-10 | May 23, 2017 | 17:50 | Wipe F | Wipe Floor Sample 10cm X 10cm, Exterior, 18° 2' 10"N 66° 48' 6" O | | | | | | | | | | |
| Turn Around Time | e: Normal:X_ | _3 days | Ru | ush: | | | | | | | | | | |
| Sampling Collected by: | Relinquished hy: | Received by: | Relinquished by: Received by Delivery to Lab by: | | | | | | Received | at Lab by: | | | | |
| Cullase | Jales Sau | TX | | | | | | | | | | | | |
| Date: Time: | Date: Time: | Date: | Time: | Date: Time: | Date: | Time: | Date: | Time: | | Date: | Tim | ie: | | |
| May-23-17 | 124-23-17 | 5-26 | 19:30 | | | | | | | | | | _ | |



Best Environmental Consultants Inc.

PO BOX 560180, GUAYANILLA PR 00656-0180

CHAIN OF CUSTODY(TRANSMITAL SHEET FOR SAMPLES)

COC#: 136-052317-TEM-W-2

777-1048

| Customer Name: | Homeca Recycling | un and the Annual Constant of the | Services and an and the second se | Project Name: Puerto Rico Olefins Peñuelas PR. | | | | | | | | | | | |
|------------------------|---|-----------------------------------|--|--|---|---------------|--|------------|----------|-------------|-------------|-------|------|--|--|
| Contact: | Benjamin Cintron | | | Total Samples: | | | 11 | Job Number | r: | JN-0136 | | | | | |
| Phone/Fax/E-mail: | 787-548-5494 | | | EQB Certified Inspector ID: ASB-0916-0497-SI | | | | | Remarks: | | | | | | |
| Collected by: | Carlos E. Ocasio Feli | | Structure Address: | | | | | | | | | | | | |
| Analized by Lab: | Cei Labs Inc. | | | Duoiset | · Duanto Di | ica Olafina I | Dañualas DD | 7 | Wip | pe Analysis | by ASTM D64 | 80-05 | | | |
| AIHA Lab ID: | | | - | Frojeci | Project : Puerto Rico Olejins, Penuelas PR. | | | | | | | | | | |
| Project Description: | Wipe Sampling Event Analyzed by ASTM D6480-05 | | | | | | | | | | | | | | |
| Sample No. | Date | Time | | S | ample Des | cription | | | | | Sample Typ | e: | | | |
| · · · | | | | والمراجع والمراجع والمراجع والمراجع والمراجع | | | | | Wipe | Soil | Paint Chip | TCLP | Bulk | | |
| 136-052317-W-11 | May 23, 2017 | 17:52 | | | Filed Bla | ank | | | х | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | 1 | | | | | | | | | | |
| | | | | | | | alantaja anatoko ingera anatokon sinaki aparatokon | | | | | | 8 | | |
| | | | | | | | | | | | | | 1 | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | 1 | | | | | | | | | | |
| | | | | | 3 | | | | | | | | | | |
| | | | | | 1 | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| Turn Around Time | e: Normal:X_ | _3 days | R | ısh: | | | | | | I | II | | 1 | | |
| Sampling Collected by: | Relinquished by: | Received by: | and design and a state of the second second | Relinguished by: | Received | l by | Delivery to Lab by: | | | Received | at Lab by: | | | | |
| Cull clases | Call delle | | | | | | | | | | | | | | |
| Date: Time: | Date: Time: | Date: | Time: | Date: Time: | Date: | Time: | Date: | Time: | | Date: | Tin | ne: | | | |
| Mey-23-17 | Mey 23-17 | | | | 1 | - | | | | | | | | | |

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APPENDIX III AERIAL REPRESENTATIVE PHOTOS OF ASBESTOS CONTAINING MATERIALS SAMPLING POINTS



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AERIAL PHOTO 1: Wipes Samples Location and Analytical Results





AERIAL PHOTO 2: Wipes Samples Location and Analytical Results





AERIAL PHOTO 3: Wipes Samples Location and Analytical Results





AERIAL PHOTO 4: Wipes Samples Location and Analytical Results





AERIAL PHOTO 5: Wipes Samples Location and Analytical Results





AERIAL PHOTO 6: Wipes Samples Location General View



JUNE 4, 2017



Representative Photo Sampling Point ID 136-052317-W-01



JUNE 4, 2017





JUNE 4, 2017





JUNE 4, 2017





JUNE 4, 2017



Representative Photo Sampling Point ID 136-052317-W-05



JUNE 4, 2017





JUNE 4, 2017





JUNE 4, 2017





JUNE 4, 2017





JUNE 4, 2017



