

SPECIFICATIONS AND PROPOSAL

FOR

POTENTIALLY ASBESTOS-CONTAINING DUST CLEANUP AND LIMITED VISUAL  
ASSESSMENT

PORT ALLEN HARBOR, KAUAI, HAWAII

JOB S70150

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HARBORS DIVISION

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**NOTICE TO BIDDERS**  
(Chapter 103D, Hawaii Revised Statutes)

The receiving of SEALED BIDS for POTENTIALLY ASBESTOS-CONTAINING DUST CLEANUP AND LIMITED VISUAL ASSESSMENT, PORT ALLEN HARBOR, KAUAI, HAWAII, JOB S70150, will begin as advertised in HIEPRO. Bidders are to register and submit bids through HIEPRO only. See the following HIEPRO link for important information on registering: <https://hiepro.ehawaii.gov/welcome.html>.

Plans, specifications, proposal, contract forms, and any other applicable documents may be obtained from HIEPRO.

Deadline to submit bids is May 26, 2023, at 2:00 p.m. Hawaii Standard Time (HST). Bids received after said due date and time shall not be considered.

The scope of work consists of proper cleanup of potentially asbestos-containing dust accumulated on all specified and readily accessible interior surfaces up to 30 feet in height and a post-cleaning limited visual assessment within the Port Allen Shed, Port Allen Harbor, Kauai. The estimated cost of construction is between \$250,000 and \$500,000.

To be eligible for award, bidders must possess a valid State of Hawaii General Engineering Contractor's "C-19" license at the time of bidding.

The GENERAL PROVISIONS dated 2016 applicable to this project are available on the internet at <http://hidot.hawaii.gov/administration/con/>.

A pre-bid meeting is scheduled for May 5, 2023, at 10:00 a.m. HST. All prospective bidders or their representatives (employees) are encouraged to attend, but attendance is not mandatory. The pre-bid meeting will be conducted at Port Allen Harbor. Contact Mr. Mitchell Martello, Harbors Project Coordinator, by phone at (808) 587-1969 or email at [mitchell.a.martello@hawaii.gov](mailto:mitchell.a.martello@hawaii.gov), or Ms. Ying "Joy" Zhang, Harbors Environmental Engineer, by phone at (808) 587-1960 or email at [ying.j.zhang@hawaii.gov](mailto:ying.j.zhang@hawaii.gov). Anything said at the meeting is for clarification purposes and any changes to the bid documents will be made by addendum and posted in HIEPRO.

All questions and requests for information (RFI) applicable to the bid documents shall be submitted via HIEPRO no later than 14 calendar days before bid opening. Questions received after the deadline will not be addressed. Verbal RFI will not receive a response.

Apprenticeship Preference. A 5% bid adjustment for bidders that are parties to apprenticeship agreements pursuant to §103-55.6, Hawaii Revised Statutes (HRS), is applicable to this project.

Employment of State Residents on Construction Procurement Contracts. Compliance with §103B-3, HRS, is a requirement for this project whereby a minimum of 80% of the bidder's work force on this project **must** consist of Hawaii residents.

Campaign Contributions by State and County Contractors. Contractors are hereby notified of the applicability of §11-355, HRS, which states that campaign contributions are prohibited from specified State or County government contractors during the term of the contract if the contractors are paid with funds appropriated by a legislative body. For more information, contact the Campaign Spending Commission at (808) 586-0285.

Any protest of this solicitation shall be submitted in writing to the Director of Transportation, in accordance with §103D-701, HRS, and §3-126, Hawaii Administrative Rules.

The Equal Employment Opportunity Regulations of the Secretary of Labor implementing Executive Order 11246, as amended, shall be complied with on this project.

The U.S. Department of Transportation Regulation entitled "Nondiscrimination in Federally-Assisted Programs of the U.S. Department of Transportation," Title 49, Code of Federal Regulations (CFR), Part 21, is applicable to this project. Bidders are hereby notified that the State Department of Transportation will affirmatively ensure that the contract entered into pursuant to this advertisement will be awarded to the lowest responsible bidder without discrimination on the grounds of race, color, national origin or sex (as directed by 23 CFR, Part 200).

For additional information, contact Ms. Zhang as mentioned above, or Mr. Niko Salvador, Harbors Engineering Program Manager, by phone at (808) 587-1862 or email at [niko.g.salvador@hawaii.gov](mailto:niko.g.salvador@hawaii.gov).

The State reserves the right to reject any or all proposals and to waive any defects in said proposals for the best interest of the public.

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DREANALEE K. KALILI  
Deputy Director  
Department of Transportation, Harbors

## **INSTRUCTIONS FOR CONTRACTOR'S LICENSING**

“A” general engineering contractors and “B” general building contractors are reminded that due to the Hawaii Supreme Court’s January 28, 2002, decision in Okada Trucking Co., Ltd. v. Board of Water Supply, et al., 97 Haw. 450 (2002), they are prohibited from undertaking any work, solely or as part of a larger project, which would require the general contractor to act as a specialty contractor in any area where the general contractor has no license. Although the “A” and “B” project (*See, HRS § 444-7 for the definitions of an “A” and “B” project.*), respectively, the “A” and “B” contractor may only perform work in the areas in which they have the appropriate contractor’s license (*An “A” or “B” contractor obtains “C” specialty contractor’s licenses either on its own, or automatically under HAR § 16-77-32.*). The remaining work must be performed by appropriately licensed entities. It is the sole responsibility of the contractor to review the requirements of this project and determine the appropriate licenses that are required to complete the project.

HAI  
09/01/02

STATE OF HAWAII

DEPARTMENT OF TRANSPORTATION

HONOLULU, HAWAII

**SPECIAL PROVISIONS**

## SPECIAL PROVISIONS

The General Provision is amended as follows:

A. ARTICLE I - TERMS, ABBREVIATIONS, AND DEFINITIONS

1. Section 1.3 Definitions: The definition for “Subcontractor” is amended by deleting it and replacing it with the following:

“Subcontractor – An individual, partnership, firm, corporation, or joint venture, or other legal entity, as licensed or required to be licensed under Chapter 444, Hawaii Revised Statutes, as amended, which enters into an agreement with the Contractor to perform a portion of the work.”

B. ARTICLE II – STANDARD PROVISIONS FOR COMPETITIVE SEALED BIDS AND AWARDS

1. 2.7 Request for Substitution of Specified Materials and Equipment Before Bid Opening is amended as follows:

- a. The last sentence in the first paragraph (line 147 to 152) be replaced with the following:

“Where a bidder intends to use a material or equipment of an unspecified brand, make, or model, the bidder must submit a request to the Department for review and approval at the earliest date possible. Requests shall be submitted via email to the Contact person listed in HIePRO for the solicitation and also posted as a question in HIePRO under the question/answer tab referencing the email with the request. The request must be posted in HIePRO no later than seventeen (17) calendar days before the bid opening date, not including the bid opening date.”

- b. The first sentence in the second paragraph (line 154 to 156) shall be replaced with the following:

“It shall be the responsibility of the bidder to submit sufficient evidence based upon which a determination can be made by the Department that the alternate brand is a qualified equivalent.”

2. 2.8 Preparation and Delivery of Bid is amended as follows: Last paragraph (line 189 to 192) shall be replaced with the following:

“The bidder shall submit the completed proposal pages and other bid documents in HIePRO. Bids received after said due date and time shall not be considered. Original bid documents are not required to be submitted.”

3. 2.11 Bid Security is amended by adding the following after (a)(3)(line 257):

“(4) Proposal Guaranty listed in (1) and (3) shall be in its original form, and shall be received at the Contracts Office, Department of Transportation, Aliiimoku Hale, 869 Punchbowl Street, Room 105, Honolulu, Hawaii 96813 before the bid deadline.”

4. 2.12 Pre-Opening Modification or Withdrawal of Bids is amended by deleting 2.12 Pre-Opening Modification or Withdrawal of Bids in its entirety and replacing it with the following:

“2.12 Pre-Opening Modification or Withdrawal of Bids. A bidder may withdraw or modify a proposal after the bidder submits the proposal in HiePRO. Withdrawal or modify of proposal must be completed before the time set for the receiving of bids.”

5. 2.14 Public Opening of Bids is amended by deleting 2.14 Public Opening of Bids in its entirety.

C. ARTICLE VII – LEGAL RELATIONS AND RESPONSIBILITY TO PUBLIC

1. 7.1 Insurance Requirements is amended by deleting paragraph “(b)(4) Builder’s Risk for All Work” in its entirety.

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HONOLULU, HAWAII

**SPECIFICATIONS**

**PART I**

**GENERAL PROVISIONS**

The Hawaii Department of Transportation AIR and WATER Transportation Facilities Division General Provisions for Construction Projects dated 2016 is not physically included in these specifications. The General Provisions are available at

<http://hidot.hawaii.gov/administration/con/>

STATE OF HAWAII

DEPARTMENT OF TRANSPORTATION

HONOLULU, HAWAII

**SPECIFICATIONS**

**PART II**

**TECHNICAL PROVISIONS**

## ARTICLE X - PROJECT DESCRIPTION

- 10.1 GENERAL - The work to be done on this project includes furnishing all labor, materials, and equipment necessary to properly clean potentially asbestos-containing dust accumulated on all specified readily accessible interior surfaces up to thirty (30) feet in height and conduct a post-cleaning visual asbestos assessment at the Port Allen Harbor Shed, Port Allen Harbor, Kauai.

Bidders are advised to examine the existing conditions at the project site to familiarize themselves with the nature and extent of work involved. Appointments may be made with the State Harbors Division Environmental/Project Engineer for clarification of the work involved and the character and quality of materials specified.

- 10.2 SCOPE OF WORK - The major items of work to be done includes, but is not necessarily limited to, the following major items of work:

- A. Mobilization and demobilization.
- B. Providing a detailed site-specific Best Management Practices (BMP) Plan.
- C. Providing a Health and Safety Plan.
- D. Proper cleaning of potentially asbestos-containing dust accumulated on all specified readily accessible interior surfaces up to thirty (30) feet in height and related waste disposal.
- E. Post-cleaning visual inspection of the cleaned horizontal surfaces.
- F. Additional cleaning as necessary.
- G. Compile personal air-monitoring results for all workers and provide a detailed Final Report.

- 10.3 CONTRACT DRAWING - The location and size of the work area shown on the plan are approximate and is included for bidding purposes only. All structures and portions of structures shown on the plan are existing unless specifically noted. Existing conditions shown are based on the best available information. No guarantee is given that they are more than approximately correct.

- 10.4 WORK SCHEDULE AND STORAGE AREAS – The work schedule and assignment of storage area(s) shall be discussed and coordinated with the Harbors Division Kauai District Manager, Port Allen Harbor Agent and the Environmental/Project Engineer and shall be subject to their written approval. The Contractor shall turn in a work schedule two (2) weeks prior to actual construction for approval by the Harbors Division Kauai District Manager, Port Allen Harbor Agent, and the Environmental/Project Engineer. The Contractor will be responsible for maintaining the work and storage areas in a neat and orderly condition.

Charter boats use the pier daily. Contractor will have to perform the work in phases to minimize shutdown of the pier. No work will be allowed when the fuel barge is in port. Presently the fuel barge comes in every other Sunday or Monday. Should an unscheduled need for harbor operation to occur, the Contractor will need to reschedule its work around the activity at no cost to the State. Bidders can obtain information on daily shipping schedules from the internet at Hawaii.Portcall.com. Shipping and Harbor Division activities shall take precedence over Contractor's activities.

Shipping and dock activities by tenants will take precedence over the Contractor's activities. Vessels call at various days of the week. The Contractor shall coordinate its work so as to minimize interference with pier shed operations. The exact scheduling and sequencing of the work and restrictions on the Contractor's operation while working at the project site will be established at the pre-construction meeting. The Contractor shall attend pre-construction meeting to coordinate its work with others and shall complete all work within the work schedule.

Tenant operations will be ongoing in areas adjacent to the project area for the duration of the project. Phasing and careful coordination of the work will be required to allow continuous use of the project location and adjacent areas. The Contractor shall be responsible for coordination with the tenants and the Harbors Division daily regarding scheduling of all work at no additional cost to the State.

The Contractor shall protect the workers, equipment and vehicles from falling debris and material during the period that the cleaning is being conducted. It shall be the Contractor's responsibility to repair or replace all damage caused by its activities, which include but are not limited to equipment or vehicles.

- 10.5 LIABILITY AND RESPONSIBILITY - The Contractor shall obtain permits, provide, erect, and maintain warning signs, lights, barricades, fences, watchmen and/or other means as necessary to prevent unauthorized persons from wandering onto the job site where they may suffer injury or create a hazard to the construction operations or the work in progress. The Contractor shall also take reasonable precautions for safety in its operations and to prevent injury to its employees and to others having lawful business at the job site.

The Contractor shall be responsible for any, and all damages to the facilities caused by its operations or negligence. The Contractor shall, at its own expense, make prompt restitution for damages to the facilities caused by its operations or negligence. The Contractor shall hold the State harmless from all claims for loss or injury.

The Contractor SHALL verify existing conditions in the field prior to ordering any materials. The existing conditions are based on the best available information. The Contractor shall make no claim for extra compensation should actual existing conditions differ from those shown on the plans.

- 10.6 BEST MANAGEMENT PRACTICES - The Contractor must follow standard best

management practices (BMPs) for air pollution, water pollution, noise, and solid waste control, as required by Federal, State and County regulations, to protect the environment from the effects of construction activity, including prohibiting any construction debris or other deleterious materials to fall, flow or otherwise enter the harbor waters.

The Contractor shall submit a site-specific BMP plan to the Harbors Division for review and comment before work begins. The plan shall satisfy the requirements of Article XIV - Temporary Water Pollution, Dust, and Erosion Control. This plan shall describe and detail all methods procedures to be used to prevent air and water pollution, including preventing any materials, wastes and debris from entering any adjacent storm drain system and harbor waters to the satisfaction of the Harbors Division. The Contractor shall revise the BMP plan, at no additional cost to the State, should it be determined by the Environmental/Project Engineer that the plan is insufficient to prevent pollution.

- 10.7 PERMITS - A Building Permit from the County of Kauai will not be required for this project.
- 10.8 APPROVED EQUAL - The term “approved equal” as used in these specifications refers to the use of alternate equipment, articles or materials of equal quality and characteristics for the purpose intended. An approved equal will be permitted, upon approval of the Director prior to bid opening, in accordance with the General Provisions and Special Provisions.
- 10.9 SUBMITTALS – The Contractor shall submit for review, shop drawings, or manufacturer’s brochures, one (1) copy in PDF format, for the following items.
- A. Detailed BMP Plan
  - B. Health and Safety Plan
  - C. Qualified Environmental Professional Certifications
  - D. Testing Laboratory
  - E. Proposed Schedule
  - F. HEPA Vacuum
- 10.10 STANDARD SPECIFICATIONS - The term "Standard Specifications" as used in these Technical Provisions of these Specifications, shall mean the "Hawaii Standard Specifications for Road and Bridge Construction, 2005, Department of Transportation Highways Division, Honolulu, Hawaii.”.
- 10.11 AS BUILT DRAWINGS - The Contractor shall keep one set of drawings at the job site and make all field changes thereon. After completion of the project, a stamped, PDF/A formatted digital file shall be submitted to the Environmental/Project Engineer.

10.12 HARBOR SECURITY - The Contractor shall submit required documentation of all Contractor and subcontractor's employees, their representatives, suppliers, manufacturers, and alike, and of all necessary vehicles needing access to the project site to the Harbors Division Environmental/Project Engineer, Port Allen Harbor Agent, and Kauai District Manager before starting work on the project. The documentation will include the following:

- A. Authorized personnel's first name, middle initial(s), and last name by company name.
- B. Vehicle(s) license plate number(s) by company name.
- C. The Contractor may be directed to use a specified entrance to enter and exit the harbor. Upon every entry, each employee must present and possess a photo identification (ID) card.
- D. All Contractor's and sub-contractor's employees, their representatives, suppliers, manufacturers, and authorized personnel needing access to the project site shall wear their photo ID card at all times.
- E. Contractor's vehicles must be identified with a company logo and will be subject to search. Any employee's personal belongings will also be subject to search.
- F. If the Contractor wishes to remove any fencing or open any locked gates, they shall coordinate with and request approval from the Harbors Division Environmental/Project Engineer, Port Allen Harbor Agent, and Kauai District Manager. If approval is granted, the Contractor shall then be responsible for securing open fencing or gate(s) immediately after entering or posting security personnel to monitor ingress and egress. Inspections of vehicles and equipment moving through the access points will be done in accordance with current MARSEC level and directives.
- G. If security personnel are required, the Contractor shall hire the same contract security that provides service to the State of Hawaii, Department of Transportation, Harbors Division. In the event that the security contract for Harbors changes, contractor must hire the new security contractor.
- H. By the end of each day, the Contractor shall re-erect and restore all fencing/barrier/perimeter security measures to the satisfaction of the Environmental/Project Engineer, Port Allen Harbor Agent and Kauai District Manager. Electricity and lighting shall also be restored and in satisfactory working order, to no less than pre-construction conditions, by the end of each day, to the satisfaction of the Environmental/Project Engineer, Port Allen Harbor Agent, and Kauai District Manager.

- I. Under no circumstances shall perimeter security be compromised. If determined by the State, and solely by the State, that the Contractor has left the project site in a condition that compromises security of the harbor, the State reserves the right to make the necessary arrangements to provide and enhance perimeter security, including restoration of electrical power and lighting, at the sole expense of the Contractor.
- J. At times, the maritime security level for the State of Hawaii and/or the general color-coded security level for State of Hawaii may be temporarily elevated. In these events, the Contractor may be prohibited to access the project site and may be required to stop work as directed by either the Harbors Division's Environmental/Project Engineer, Port Allen Harbor Agent, or Kauai District Manager. The Harbors Division will consider impacts to the work and schedule as a result of prolonged work stoppages.

Except for Item J above, all other requirements indicated shall be considered incidental to the project and shall be provided by the Contractor at no cost to the State. The Contractor's personnel requiring unescorted access to secure areas of maritime facilities will be required to obtain a Transportation Worker Identification Credential (TWIC). TWIC was established by Congress through the Maritime Transportation Security Act and is administered by the Transportation Security Administration (TSA) and U.S. Coast Guard. To obtain a TWIC, the applicant must provide biographic and biometric information such as fingerprints, sit for a digital photograph and successfully pass a security threat assessment conducted by TSA. The Contractor will be responsible to obtain and pay for all costs associated in providing their appropriate employees with TWIC. Information regarding TWIC is available on the TSA website at <https://www.tsa.gov/for-industry/twic>

- 10.13 COMPLETION TIME - All work for this project shall be completed within the specified time period as listed in page P-1 of the Proposal. The number of days shall commence on the issuance of the notice to proceed. The intent of the contract is to provide for the construction final acceptance of the work described by the contract documents at the accepted bid price and within the time established by the contract. The Contractor has the duty to furnish all labor, materials, equipment, tools, transportation, incidentals, and supplies and to determine the means, methods and schedules required to complete the work in accordance with the contract documents.

Unless otherwise directed by the Environmental/Project Engineer in writing, the Contractor shall not commence with physical construction without sufficient materials and equipment available at the project site for either continuous construction until completion, or completion of a specified portion of the work.

- 10.14 PAYMENT - Payment shall be made as specified below. Such payment shall include furnishing all labor, material, equipment, and other expenses required to complete each item in accordance with the plans and specifications.

Item 1

Potentially Asbestos-Containing Dust Cleanup and Limited Visual Assessment. Payment shall be made at the lump sum price bid in the Proposal Schedule. Such payment shall include mobilization and demobilization; initial survey; work area setup; proper cleaning using HEPA vacuum and wet wipe/mop of specified and readily accessible surfaces; project related air monitoring, testing and final report; post cleaning visual inspection; additional cleaning as necessary; and related appurtenances; and all other incidental work required to complete this item.

## ARTICLE XI - MOBILIZATION AND DEMOBILIZATION

- 12.1 GENERAL - The work consists of furnishing at the job site, plant, equipment, materials, labor and appliances and performing all work in connection with mobilization and demobilization for the job in accordance with this article of the specifications.
- 12.2 DESCRIPTION
- A. Mobilization shall include setting up, ready for use, all plant, equipment, warning signs, and necessary materials at the job site.
  - B. Providing temporary barricades as required for Harbor operations during construction.
  - C. Demobilization shall include the removal of all the Contractor's plant, equipment, warning signs, and surplus material from the job site. The cleanup of the job site, satisfactory to the Environmental/Project Engineer, shall also be included in this article.
- 12.3 PAYMENT - Payment for Mobilization and Demobilization shall not be made separately but shall be considered incidental to the applicable items in the Proposal Schedule.

ARTICLE XII –EXISTING CONDITION – ASBESTOS SURVEY GENERAL

12.1 GENERAL

- A. This Section includes the results of potentially asbestos-containing dust wipe sampling and is provided for the Contractor’s information.
- B. Related Sections include the following:
  - 1. ARTICLE XIII – POTENTIALLY ASBESTOS-CONTAINING DUST CLEANUP AND LIMITED VISUAL ASSESSMENT for requirements of all work that are related to cleanup of potentially asbestos-containing dust.

12.2 SURVEY

- A. The area to be cleaned under this contract was surveyed for the presence of potentially asbestos-containing dust. A copy of the survey report is included in this Article.
- B. *Asbestos Dust Wipe Sampling, Port Allen, Kauai, HI*, prepared by Trinity Environmental Solutions dated November 30, 2022 (104 pages).

12.3 POTENTIALLY ASBESTOS-CONTAINING DUST

- A. The area to be cleaned under this contract was surveyed for the presence of potentially asbestos-containing dust, using Hawaii Department of Health requirements. A copy of the survey report is included in the Article.
  - 1. The report is included for the Contractor’s information. The Contractor shall review the attached report for the reason any detectable potentially asbestos-containing dust finding was made. The Contractor may, at no expense to the State, perform further asbestos surveys in areas where asbestos is suspected and where work is to be performed. If asbestos containing material is found, notify the Harbors Division Environmental/Project Engineer immediately.
- B. The Contractor shall notify employees, subcontractors, and all other persons engaged on the project of the presence of potentially asbestos-containing dust in the existing area in accordance with the requirements of Chapter 110, Title 12-110-2(f)(1)(B) of the Occupational Safety and Health Standards, State of Hawaii.
- C. If work is required in any area on the site other than those designated in the scope, the Contractor shall request asbestos survey reports for such area(s) from the Harbors Division Environmental/Project Engineer. Based on the information contained in the additional survey(s), notify all persons on the project as indicated in paragraph 12.3.B.

12.4 PAYMENT - Payment for Existing Condition – Asbestos Survey General shall not be made separately but shall be considered incidental to the applicable items in the Proposal Schedule.



November 30, 2022

PREPARED FOR:

Genette Simpkins  
Certified Construction Inc.  
1009 Ulupono St. Honolulu, HI 96819  
Phone: (808) 383-3119

REGARDING:

Asbestos Dust Wipe Sampling  
Port Allen, Kauai, HI

Dear Ms. Simpkins,

Between April 6th and June 23rd, 2022, Trinity Environmental Solutions (TES) performed air monitoring and project oversight for the asbestos abatement performed by Certified Construction. **All work was performed in accordance with all applicable State of Hawaii rules and regulations and all applicable clearances passed EPA clearance criteria.**

In response to Certified Construction's request with no preliminary reference data available from the concerned party, TES was contracted to collect, analyze, and deliver results of potential asbestos-containing dust to compare to the supposed data collected by the concerned party by a method that should not be used for either objective data, or as a substitute for initial monitoring or a exposure assessments.

**This test method does not describe procedures or techniques required for the evaluation of the safety or habitability of buildings with asbestos-containing materials, or compliance with federal, state, or local regulations or statutes.** It is the user's responsibility to make these determinations.

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. Methodology of the analysis method used is attached.

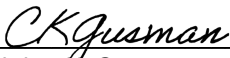
Because this sampling method is not a regulated method, attachments and details in this report are to support activities conducted in the field as there are no regulatory requirements for reporting of the sampling conducted.

On September 2nd, 2022, TES collected dust wipe samples and submitted to Lab Cor Inc, in Seattle Washington for analysis via ASTM D-6480-19 to determine asbestos present in settled dust on surfaces.

TES collected 35 dust-wipe samples for asbestos detections in settled dust. Samples were collected from various surfaces. Three (3) of the dust-wipe samples were collected in areas where heavy pre-existing dust/debris were present prior to abatement work. Samples 1 and 4 were collected on the foundational base beams of the building. Sample 7 was on a wooden storage unit used by the tour boats. See attached field-drawing for approximate sample locations.

All other dust-wipe samples were collected in representative random locations and results of these samples indicated no settled asbestos-containing dust.

If you have any questions regarding this letter, I can be reached at 808-870-3219 or [trinityenv808@gmail.com](mailto:trinityenv808@gmail.com).

  
\_\_\_\_\_  
Christy K. Gusman  
Environmental Specialist  
Trinity Environmental Solutions

## ASTM D-6480-19

### Standard Test Method for Wipe Sampling of Surfaces, Indirect Preparation, and Analysis for Asbestos Structure Number Surface Loading by Transmission Electron Microscopy

#### Significance and Use

5.1 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.

5.1.1 This test method does not describe procedures or techniques required for the evaluation of the safety or habitability of buildings with asbestos-containing materials, or compliance with federal, state, or local regulations or statutes. It is the user's responsibility to make these determinations.

5.1.2 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.

5.2 One or more large asbestos-containing particles dispersed during sample preparation may result in large asbestos surface loading results in the TEM analyses of that sample. It is, therefore, recommended that multiple replicate independent samples be secured in the same area, and that a minimum of three such samples be analyzed by the entire procedure.

#### Scope

1.1 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.

1.2 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.

1.2.1 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.

1.2.2 This test method is generally applicable for an estimate of the surface loading of asbestos structures starting from approximately 1000 asbestos structures per square centimetre.

1.3 Asbestos identification by transmission electron microscopy (TEM) is based on morphology, electron diffraction (ED), and energy dispersive X-ray analysis (EDXA).

1.4 This test method allows determination of the type(s) of asbestos fibers present.

1.4.1 This test method cannot always discriminate between individual fibers of the asbestos and non-asbestos analogues of the same amphibole mineral.

1.4.2 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  $\mu\text{m}$  has been defined as the shortest fiber to be incorporated in the reported results.

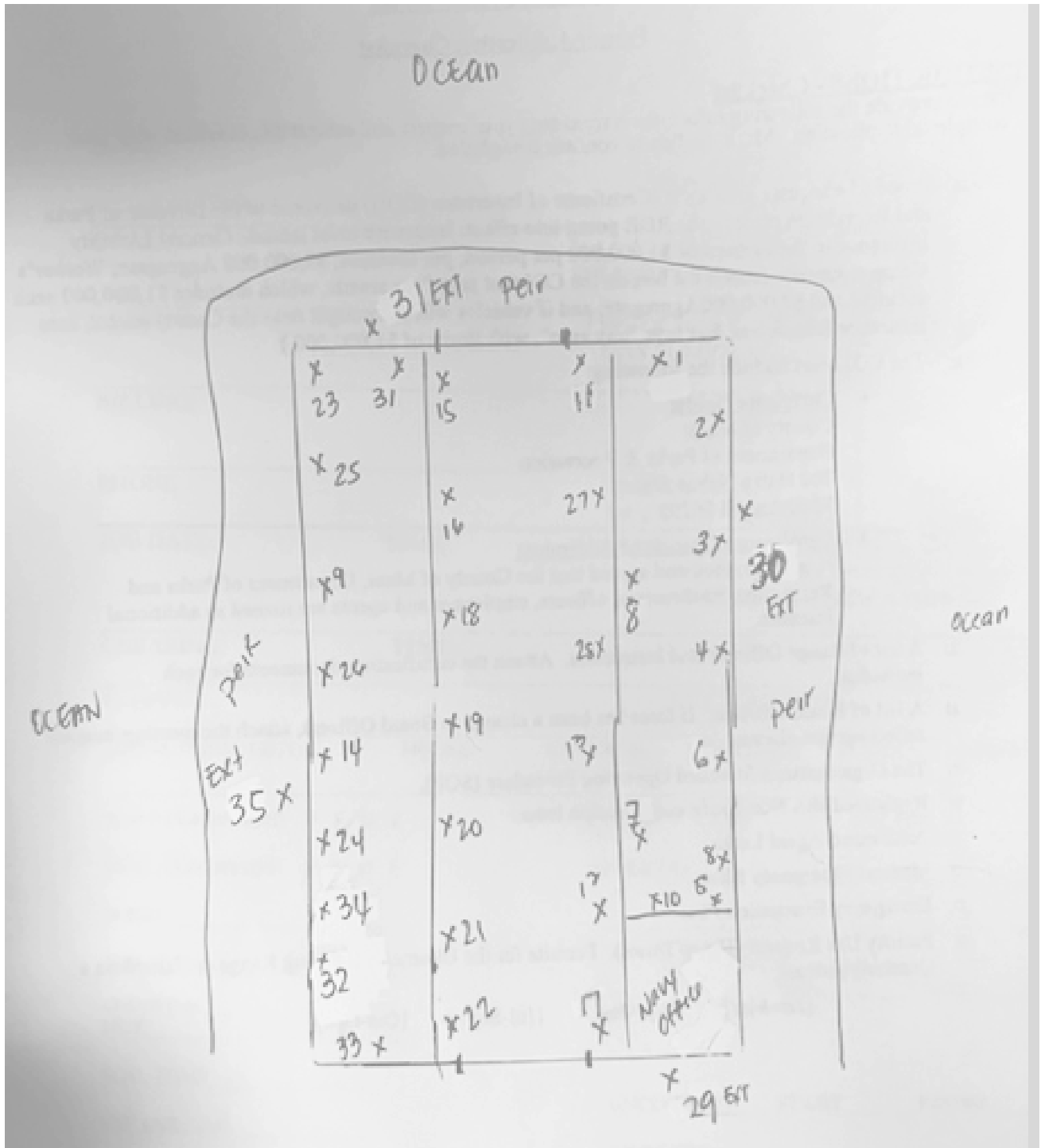
1.5 The values stated in SI units are to be regarded as standard.

1.6 *This standard 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 standard to establish appropriate safety, health, and environmental practices and determine the applicability of regulatory limitations prior to use.*

1.7 *This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the Development of International Standards, Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.*



FIELD LOG  
SAMPLE LOCATIONS



## ASTM D 6480-19 - Surface Wipes Report

**Job Number: 221076**

**Client: Trinity Environmental**  
**Address: 11 Waihee Valley Road**  
**Wailuku, HI 96793**

**Report Number: 221076R01**

**Report Date: 11/4/2022**

**Project Name: Asbestos Project- Dust Wipes 10-28-2022**

**Project No.:**

**PO Number:**

**Sub Project:**

**Reference No.:**

Enclosed please find results for samples submitted to our laboratory. A list of samples and analyses follows:

Lab/Cor Num.	Client Sample Number	Analysis	Analysis Notes	Date Sampled:	Date Received:
221076 - S1	W1	ASTM D 6480-19 - Surface Wipes	>100 structures in first two grid openings. Additional grid openings were evaluated and determined to have homogenous loadings.	9/2/2022	10/28/2022
221076 - S2	W2	ASTM D 6480-19 - Surface Wipes		9/2/2022	10/28/2022
221076 - S3	W3	ASTM D 6480-19 - Surface Wipes		9/2/2022	10/28/2022
221076 - S4	W4	ASTM D 6480-19 - Surface Wipes	>100 structures in first grid openings. Additional grid openings were evaluated and determined to have homogenous loadings.	9/2/2022	10/28/2022
221076 - S5	W5	ASTM D 6480-19 - Surface Wipes		9/2/2022	10/28/2022
221076 - S6	W6	ASTM D 6480-19 - Surface Wipes		9/2/2022	10/28/2022
221076 - S7	W7	ASTM D 6480-19 - Surface Wipes	>100 structures in first grid openings. Additional grid openings were evaluated and determined to have homogenous loadings.	9/2/2022	10/28/2022
221076 - S8	W8	ASTM D 6480-19 - Surface Wipes		9/2/2022	10/28/2022
221076 - S9	W9	ASTM D 6480-19 - Surface Wipes		9/2/2022	10/28/2022
221076 - S10	W10	ASTM D 6480-19 - Surface Wipes		9/2/2022	10/28/2022
221076 - S11	W11	ASTM D 6480-19 - Surface Wipes		9/2/2022	10/28/2022
221076 - S12	W12	ASTM D 6480-19 - Surface Wipes		9/2/2022	10/28/2022
221076 - S13	W13	ASTM D 6480-19 - Surface Wipes		9/2/2022	10/28/2022
221076 - S14	W14	ASTM D 6480-19 - Surface Wipes		9/2/2022	10/28/2022
221076 - S15	W15	ASTM D 6480-19 - Surface Wipes		9/2/2022	10/28/2022
221076 - S16	W16	ASTM D 6480-19 - Surface Wipes		9/2/2022	10/28/2022
221076 - S17	W17	ASTM D 6480-19 - Surface Wipes		9/2/2022	10/28/2022
221076 - S18	W18	ASTM D 6480-19 - Surface Wipes		9/2/2022	10/28/2022
221076 - S19	W19	ASTM D 6480-19 - Surface Wipes		9/2/2022	10/28/2022
221076 - S20	W20	ASTM D 6480-19 - Surface Wipes		9/2/2022	10/28/2022
221076 - S21	W21	ASTM D 6480-19 - Surface Wipes		9/2/2022	10/28/2022
221076 - S22	W22	ASTM D 6480-19 - Surface Wipes		9/2/2022	10/28/2022
221076 - S23	W23	ASTM D 6480-19 - Surface Wipes		9/2/2022	10/28/2022
221076 - S24	W24	ASTM D 6480-19 - Surface Wipes		9/2/2022	10/28/2022
221076 - S25	W25	ASTM D 6480-19 - Surface Wipes		9/2/2022	10/28/2022
221076 - S26	W26	ASTM D 6480-19 - Surface Wipes		9/2/2022	10/28/2022
221076 - S27	W27	ASTM D 6480-19 - Surface Wipes		9/2/2022	10/28/2022
221076 - S28	W28	ASTM D 6480-19 - Surface Wipes		9/2/2022	10/28/2022

**ASTM D 6480-19 - Surface Wipes Report**

**Job Number: 221076**

**Client: Trinity Environmental**

**Report Number: 221076R01**

**Report Date: 11/4/2022**

**Project Name: Asbestos Project- Dust Wipes 10-28-2022**

221076 - S29	W29	ASTM D 6480-19 - Surface Wipes	9/2/2022	10/28/2022
221076 - S30	W30	ASTM D 6480-19 - Surface Wipes	9/2/2022	10/28/2022
221076 - S31	W31	ASTM D 6480-19 - Surface Wipes	9/2/2022	10/28/2022
221076 - S32	W32	ASTM D 6480-19 - Surface Wipes	9/2/2022	10/28/2022
221076 - S33	W33	ASTM D 6480-19 - Surface Wipes	9/2/2022	10/28/2022
221076 - S34	W34	ASTM D 6480-19 - Surface Wipes	9/2/2022	10/28/2022
221076 - S35	W35	ASTM D 6480-19 - Surface Wipes	9/2/2022	10/28/2022

ASTM D 6480-19 - Surface Wipes Preparation and analysis of the above samples was conducted in accordance with the ASTM # D6480-19 for the identification of asbestos in dust. The samples were collected using a wipe technique onto a TexWipe or similar wipe medium. Sample wipes were rinsed in distilled, particle-free water, and sonicated lightly to homogenize and remove particulates. Aliquots were then filtered onto 0.22µm pore size, mixed cellulose ester filters and air-dried. The samples were carbon coated at high vacuum with a thin layer of carbon, placed on 200 mesh copper grids and allowed to dissolve in a N,N-Dimethylformamide / Acetone bath until cleared of filter debris.

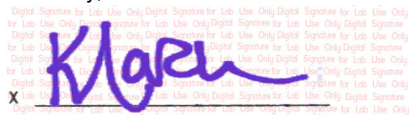
Each aliquot was examined at low magnification to determine the best particulate loading for analysis. Depending on the background dust level, if the expected sensitivity of 1000 str/cm2 was not achievable within LabCor, Inc.'s test parameters, the results were reported based on the analyzable aliquot.

Analysis was performed using a transmission electron microscope equipped with an EDS X ray analyzer. The samples were analyzed at an approximate screen magnification between 15,000 - 20,000x, with an accelerating voltage of 100 KV. The sizing of grid openings was performed using a calibrated digital imaging system at low magnification.

**Disclaimer** The results reported relate only to the samples tested or analyzed; the laboratory is not responsible for data collected by personnel who are not affiliated with the laboratory. Results reported in both structures/cm3 and structures/mm2 are dependent on the sample volume and area. These parameters are measured and recorded by non-laboratory personnel and are not covered by the laboratory's accreditation. Interpretation of these results is the sole responsibility of the client.

If further clarification of these results is needed, please call us. Thank you for allowing the staff at Lab/Cor, Inc. the opportunity to provide you with the analytical services.

Sincerely,



**Kate March**  
 Quality Control Officer

**ASTM D 6480-19 - Surface Wipes Final Report**

Job Number: 221076      SEA  
Client: Trinity Environmental

Report Number: 221076R01  
Date Received: 10/28/2022

Project Name: Asbestos Project- Dust Wipes 10-28-2022

Lab/Cor Sample No.: S1	Sample Area/Mass/Volume (cm2) : 309.68
Client Sample No.: W1	Lab Filter Area (mm2) : 289.38
Filter Fraction: 1	Aliquot Dilution: 0.02
Residual Ash Vol: 50 ml	Final Dilution: 0.02
Begin Volume: 50 ml	Grid Openings Analyzed : 2
Volume Taken: 1 ml	Average Grid Opening Area : 0.011
	Area Analyzed (mm2) : 0.022
	Analytical Sens. (struc/cm2) : 2123.747

Analyst(s)	Analysis Date	Microscope	Magnification
SB	10/31/2022	JEOL-Sr 1200	20000
KM	10/31/2022	JEOL-Sr 1200	20000
KM	11/1/2022	JEOL-Sr 1200	20000

Structure Type	Concentration (struc/cm2)	95% Confidence Interval (struc/cm2)	Structure Count' Prim/Total
ASTM Asbestos >=0.5µm - <5.0µm	163528.481	88262.905 - 251791.386 - Gaussian	77
ASTM Asbestos >=5.0µm	53093.663	34357.971 - 78376.865 - Poisson	25
ASTM Libby-Other >0.5µm	< 2123.747	0 - 7834.501 - Poisson	0
ASTM Total Asbestos >=0.5µm	216622.144	121308.4 - 337930.544 - Gaussian	102

<sup>1</sup> Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S2	Sample Area/Mass/Volume (cm2) : 309.68
Client Sample No.: W2	Lab Filter Area (mm2) : 289.38
Filter Fraction: 1	Aliquot Dilution: 0.02
Residual Ash Vol: 50 ml	Final Dilution: 0.02
Begin Volume: 50 ml	Grid Openings Analyzed : 5
Volume Taken: 1 ml	Average Grid Opening Area : 0.011
	Area Analyzed (mm2) : 0.055
	Analytical Sens. (struc/cm2) : 849.499

Analyst(s)	Analysis Date	Microscope	Magnification
SB	10/31/2022	JEOL-Sr 1200	20000
KM	10/31/2022	JEOL-Sr 1200	20000

Structure Type	Concentration (struc/cm2)	95% Confidence Interval (struc/cm2)	Structure Count' Prim/Total
ASTM Asbestos >=0.5µm - <5.0µm	37377.939	27158.47 - 50178.183 - Poisson	44
ASTM Asbestos >=5.0µm	18688.969	11712.887 - 28295.949 - Poisson	22
ASTM Libby-Other >0.5µm	< 849.499	0 - 3133.8 - Poisson	0
ASTM Total Asbestos >=0.5µm	56066.908	43360.108 - 71331.548 - Poisson	66

<sup>1</sup> Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

\* One-sided upper 95% Poisson confidence limits may be used to calculate sample concentrations ([Struc count] \* [Analytical Sensitivity]) when the structure count is below 4. The limits are: 0 str - 0, 1 str - 1, 2 str - 2, 3 str - 3

### ASTM D 6480-19 - Surface Wipes Final Report

Job Number: 221076      SEA  
Client: Trinity Environmental

Report Number: 221076R01  
Date Received: 10/28/2022

Project Name: Asbestos Project- Dust Wipes 10-28-2022

Lab/Cor Sample No.: S3  
Client Sample No.: W3  
Filter Fraction: 1  
Residual Ash Vol: 50 ml  
Begin Volume: 50 ml  
Volume Taken: 1 ml

Aliquot Dilution: 0.02  
Final Dilution: 0.02

Sample Area/Mass/Volume (cm2) : 929.03  
Lab Filter Area (mm2) : 289.38  
Grid Openings Analyzed : 10  
Average Grid Opening Area : 0.011  
Area Analyzed (mm2) : 0.11  
Analytical Sens. (struc/cm2) : 141.585

Analyst(s)	Analysis Date	Microscope	Magnification
KM	11/1/2022	JEOL-Sr 1200	20000
SB	11/1/2022	JEOL-Sr 1200	20000

Structure Type	Concentration (struc/cm2)	95% Confidence Interval (struc/cm2)	Structure Count' Prim/Total
ASTM Asbestos >=0.5µm - <5.0µm	6512.893	4768.287 - 8687.349 - Poisson	46
ASTM Asbestos >=5.0µm	1132.677	489.033 - 2231.94 - Poisson	8
ASTM Libby-Other >0.5µm	< 141.585	0 - 522.306 - Poisson	0
ASTM Total Asbestos >=0.5µm	7645.57	5743.663 - 9975.911 - Poisson	54

<sup>1</sup> Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S4  
Client Sample No.: W4  
Filter Fraction: 1  
Residual Ash Vol: 50 ml  
Begin Volume: 50 ml  
Volume Taken: 0.25 ml

Aliquot Dilution: 0.005  
Final Dilution: 0.005

Sample Area/Mass/Volume (cm2) : 309.68  
Lab Filter Area (mm2) : 289.38  
Grid Openings Analyzed : 1  
Average Grid Opening Area : 0.011  
Area Analyzed (mm2) : 0.011  
Analytical Sens. (struc/cm2) : 16989.972

Analyst(s)	Analysis Date	Microscope	Magnification
SB	11/1/2022	JEOL-Sr 1200	20000
KM	11/1/2022	JEOL-Sr 1200	20000

Structure Type	Concentration (struc/cm2)	95% Confidence Interval (struc/cm2)	Structure Count' Prim/Total
ASTM Asbestos >=0.5µm - <5.0µm	1478127.569	1183929.213 - 1823363.801 - Poisson	87
ASTM Asbestos >=5.0µm	560669.078	385927.215 - 787400.255 - Poisson	33
ASTM Libby-Other >0.5µm	< 16989.972	0 - 62676.007 - Poisson	0
ASTM Total Asbestos >=0.5µm	2038796.646	1690332.32 - 2438400.789 - Poisson	120

<sup>1</sup> Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

\* One-sided upper 95% Poisson confidence limits may be used to calculate sample concentrations ([Struc count] \* [Analytical Sensitivity]) when the structure count is below 4. The limits are: 0 str - 0, 1 str - 1, 2 str - 2, 3 str - 3

**ASTM D 6480-19 - Surface Wipes Final Report**

Job Number: 221076      SEA  
Client: Trinity Environmental

Report Number: 221076R01  
Date Received: 10/28/2022

Project Name: Asbestos Project- Dust Wipes 10-28-2022

Lab/Cor Sample No.: S5	Sample Area/Mass/Volume (cm2) : 232.26
Client Sample No.: W5	Lab Filter Area (mm2) : 289.38
Filter Fraction: 1	Aliquot Dilution: 0.06
Residual Ash Vol: 50 ml	Final Dilution: 0.06
Begin Volume: 50 ml	Grid Openings Analyzed : 5
Volume Taken: 3 ml	Average Grid Opening Area : 0.011
	Area Analyzed (mm2) : 0.055
	Analytical Sens. (struc/cm2) : 377.555

<b>Analyst(s)</b>	<b>Analysis Date</b>	<b>Microscope</b>	<b>Magnification</b>
SB	11/1/2022	JEOL-Sr 1200	20000

Structure Type	Concentration (struc/cm2)	95% Confidence Interval (struc/cm2)	Structure Count <sup>1</sup> Prim/Total
ASTM Asbestos >=0.5µm - <5.0µm	6040.879	3453.117 - 9810.01 - Poisson	16
ASTM Asbestos >=5.0µm	3020.439	1304.075 - 5951.776 - Poisson	8
ASTM Libby-Other >0.5µm	< 377.555	0 - 1392.8 - Poisson	0
ASTM Total Asbestos >=0.5µm	9061.318	5806.04 - 13482.864 - Poisson	24

<sup>1</sup> Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S6	Sample Area/Mass/Volume (cm2) : 309.68
Client Sample No.: W6	Lab Filter Area (mm2) : 289.38
Filter Fraction: 1	Aliquot Dilution: 0.06
Residual Ash Vol: 50 ml	Final Dilution: 0.06
Begin Volume: 50 ml	Grid Openings Analyzed : 5
Volume Taken: 3 ml	Average Grid Opening Area : 0.011
	Area Analyzed (mm2) : 0.055
	Analytical Sens. (struc/cm2) : 283.166

<b>Analyst(s)</b>	<b>Analysis Date</b>	<b>Microscope</b>	<b>Magnification</b>
SB	11/1/2022	JEOL-Sr 1200	20000

Structure Type	Concentration (struc/cm2)	95% Confidence Interval (struc/cm2)	Structure Count <sup>1</sup> Prim/Total
ASTM Asbestos >=0.5µm - <5.0µm	4530.659	2589.838 - 7357.507 - Poisson	16
ASTM Asbestos >=5.0µm	566.332	68.526 - 2045.876 - Poisson	2
ASTM Libby-Other >0.5µm	< 283.166	0 - 1044.6 - Poisson	0
ASTM Total Asbestos >=0.5µm	5096.992	3020.817 - 8055.512 - Poisson	18

<sup>1</sup> Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

\* One-sided upper 95% Poisson confidence limits may be used to calculate sample concentrations ([Struc count] \* [Analytical Sensitivity]) when the structure count is below 4. The limits are: 0 str - 0, 1 str - 1, 2 str - 2, 3 str - 3

**ASTM D 6480-19 - Surface Wipes Final Report**

Job Number: 221076      SEA  
Client: Trinity Environmental

Report Number: 221076R01  
Date Received: 10/28/2022

Project Name: Asbestos Project- Dust Wipes 10-28-2022

Lab/Cor Sample No.: S7	Sample Area/Mass/Volume (cm2) : 929.03
Client Sample No.: W7	Lab Filter Area (mm2) : 289.38
Filter Fraction: 1	Aliquot Dilution: 0.06
Residual Ash Vol: 50 ml	Final Dilution: 0.06
Begin Volume: 50 ml	Grid Openings Analyzed : 1
Volume Taken: 3 ml	Average Grid Opening Area : 0.011
	Area Analyzed (mm2) : 0.011
	Analytical Sens. (struc/cm2) : 471.949

<b>Analyst(s)</b>	<b>Analysis Date</b>	<b>Microscope</b>	<b>Magnification</b>
SB	11/1/2022	JEOL-Sr 1200	20000

Structure Type	Concentration (struc/cm2)	95% Confidence Interval (struc/cm2)	Structure Count' Prim/Total
ASTM Asbestos >=0.5µm - <5.0µm	92973.903	80443.664 - 106915.269 - Poisson	197
ASTM Asbestos >=5.0µm	38699.797	30780.025 - 48039.663 - Poisson	82
ASTM Libby-Other >0.5µm	< 471.949	0 - 1741.019 - Poisson	0
ASTM Total Asbestos >=0.5µm	131673.701	116674.698 - 148079.111 - Poisson	279

<sup>1</sup> Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S8	Sample Area/Mass/Volume (cm2) : 929.03
Client Sample No.: W8	Lab Filter Area (mm2) : 289.38
Filter Fraction: 1	Aliquot Dilution: 0.01
Residual Ash Vol: 50 ml	Final Dilution: 0.01
Begin Volume: 50 ml	Grid Openings Analyzed : 10
Volume Taken: 0.5 ml	Average Grid Opening Area : 0.011
	Area Analyzed (mm2) : 0.11
	Analytical Sens. (struc/cm2) : 283.169

<b>Analyst(s)</b>	<b>Analysis Date</b>	<b>Microscope</b>	<b>Magnification</b>
SB	11/1/2022	JEOL-Sr 1200	20000

Structure Type	Concentration (struc/cm2)	95% Confidence Interval (struc/cm2)	Structure Count' Prim/Total
ASTM Asbestos >=0.5µm - <5.0µm	13025.785	9536.574 - 17374.699 - Poisson	46
ASTM Asbestos >=5.0µm	3398.031	1755.933 - 5935.794 - Poisson	12
ASTM Libby-Other >0.5µm	< 283.169	0 - 1044.611 - Poisson	0
ASTM Total Asbestos >=0.5µm	16423.816	12471.057 - 21231.747 - Poisson	58

<sup>1</sup> Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

\* One-sided upper 95% Poisson confidence limits may be used to calculate sample concentrations ([Struc count] \* [Analytical Sensitivity]) when the structure count is below 4. The limits are: 0 str - 0, 1 str - 1, 2 str - 2, 3 str - 3

**ASTM D 6480-19 - Surface Wipes Final Report**

Job Number: 221076      SEA  
Client: Trinity Environmental

Report Number: 221076R01  
Date Received: 10/28/2022

Project Name: Asbestos Project- Dust Wipes 10-28-2022

Lab/Cor Sample No.: S9	Sample Area/Mass/Volume (cm2) : 309.68
Client Sample No.: W9	Lab Filter Area (mm2) : 289.38
Filter Fraction: 1	Aliquot Dilution: 0.01
Residual Ash Vol: 50 ml	Final Dilution: 0.01
Begin Volume: 50 ml	Grid Openings Analyzed : 6
Volume Taken: 0.5 ml	Average Grid Opening Area : 0.011
	Area Analyzed (mm2) : 0.066
	Analytical Sens. (struc/cm2) : 1415.831

<b>Analyst(s)</b>	<b>Analysis Date</b>	<b>Microscope</b>	<b>Magnification</b>
SB	11/2/2022	JEOL-Sr 1200	20000

Structure Type	Concentration (struc/cm2)	95% Confidence Interval (struc/cm2)	Structure Count <sup>1</sup> Prim/Total
ASTM Asbestos >=0.5µm - <5.0µm	128840.621	103733.69 - 158190.798 - Poisson	91
ASTM Asbestos >=5.0µm	31148.282	19521.478 - 47159.915 - Poisson	22
ASTM Libby-Other >0.5µm	< 1415.831	0 - 5223.001 - Poisson	0
ASTM Total Asbestos >=0.5µm	159988.904	131852.094 - 192387.364 - Poisson	113

<sup>1</sup> Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S10	Sample Area/Mass/Volume (cm2) : 929.03
Client Sample No.: W10	Lab Filter Area (mm2) : 289.38
Filter Fraction: 1	Aliquot Dilution: 0.01
Residual Ash Vol: 50 ml	Final Dilution: 0.01
Begin Volume: 50 ml	Grid Openings Analyzed : 4
Volume Taken: 0.5 ml	Average Grid Opening Area : 0.011
	Area Analyzed (mm2) : 0.044
	Analytical Sens. (struc/cm2) : 707.923

<b>Analyst(s)</b>	<b>Analysis Date</b>	<b>Microscope</b>	<b>Magnification</b>
SB	11/2/2022	JEOL-Sr 1200	20000

Structure Type	Concentration (struc/cm2)	95% Confidence Interval (struc/cm2)	Structure Count <sup>1</sup> Prim/Total
ASTM Asbestos >=0.5µm - <5.0µm	63713.081	50179.684 - 82036.225 - Gaussian	90
ASTM Asbestos >=5.0µm	12034.693	7011.271 - 19268.959 - Poisson	17
ASTM Libby-Other >0.5µm	< 707.923	0 - 2611.528 - Poisson	0
ASTM Total Asbestos >=0.5µm	75747.774	58884.852 - 96758.739 - Gaussian	107

<sup>1</sup> Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

\* One-sided upper 95% Poisson confidence limits may be used to calculate sample concentrations ([Struc count] \* [Analytical Sensitivity]) when the structure count is below 4. The limits are: 0 str - 0, 1 str - 1, 2 str - 2, 3 str - 3

**ASTM D 6480-19 - Surface Wipes Final Report**

Job Number: 221076      SEA      Report Number: 221076R01  
 Client: Trinity Environmental      Date Received: 10/28/2022  
 Project Name: Asbestos Project- Dust Wipes 10-28-2022

Lab/Cor Sample No.: S11      Sample Area/Mass/Volume (cm2) : 929.03  
 Client Sample No.: W11      Lab Filter Area (mm2) : 289.38  
 Filter Fraction: 1      Aliquot Dilution: 0.01      Grid Openings Analyzed : 5  
 Residual Ash Vol: 50 ml      Final Dilution: 0.01      Average Grid Opening Area : 0.011  
 Begin Volume: 50 ml      Area Analyzed (mm2) : 0.055  
 Volume Taken: 0.5 ml      Analytical Sens. (struc/cm2) : 566.338

Analyst(s)      Analysis Date      Microscope      Magnification  
 SB      11/2/2022      JEOL-Sr 1200      20000

Structure Type	Concentration (struc/cm2)	95% Confidence Interval (struc/cm2)	Structure Count' Prim/Total
ASTM Asbestos >=0.5µm - <5.0µm	20954.524	14753.118 - 28883.263 - Poisson	37
ASTM Asbestos >=5.0µm	3398.031	1247.077 - 7396.381 - Poisson	6
ASTM Libby-Other >0.5µm	< 566.338	0 - 2089.223 - Poisson	0
ASTM Total Asbestos >=0.5µm	24352.555	17623.888 - 32802.892 - Poisson	43

<sup>1</sup> Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S12      Sample Area/Mass/Volume (cm2) : 929.03  
 Client Sample No.: W12      Lab Filter Area (mm2) : 289.38  
 Filter Fraction: 1      Aliquot Dilution: 0.002      Grid Openings Analyzed : 5  
 Residual Ash Vol: 50 ml      Final Dilution: 0.002      Average Grid Opening Area : 0.011  
 Begin Volume: 50 ml      Area Analyzed (mm2) : 0.055  
 Volume Taken: 0.1 ml      Analytical Sens. (struc/cm2) : 2831.692

Analyst(s)      Analysis Date      Microscope      Magnification  
 SB      11/2/2022      JEOL-Sr 1200      20000

Structure Type	Concentration (struc/cm2)	95% Confidence Interval (struc/cm2)	Structure Count' Prim/Total
ASTM Asbestos >=0.5µm - <5.0µm	87782.467	59643.939 - 124600.133 - Poisson	31
ASTM Asbestos >=5.0µm	16990.155	6235.387 - 36981.904 - Poisson	6
ASTM Libby-Other >0.5µm	< 2831.692	0 - 10446.114 - Poisson	0
ASTM Total Asbestos >=0.5µm	104772.622	73765.589 - 144416.317 - Poisson	37

<sup>1</sup> Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

\* One-sided upper 95% Poisson confidence limits may be used to calculate sample concentrations ([Struc count] \* [Analytical Sensitivity]) when the structure count is below 4. The limits are: 0 str - 0, 1 str - 1, 2 str - 2, 3 str - 3

**ASTM D 6480-19 - Surface Wipes Final Report**

Job Number: 221076      SEA  
Client: Trinity Environmental

Report Number: 221076R01  
Date Received: 10/28/2022

Project Name: Asbestos Project- Dust Wipes 10-28-2022

Lab/Cor Sample No.: S13  
Client Sample No.: W13  
Filter Fraction: 1  
Residual Ash Vol: 50 ml  
Begin Volume: 50 ml  
Volume Taken: 0.5 ml

Aliquot Dilution: 0.01  
Final Dilution: 0.01

Sample Area/Mass/Volume (cm2) : 929.03  
Lab Filter Area (mm2) : 289.38  
Grid Openings Analyzed : 5  
Average Grid Opening Area : 0.011  
Area Analyzed (mm2) : 0.055  
Analytical Sens. (struc/cm2) : 566.338

Analyst(s)      Analysis Date      Microscope      Magnification  
SB                      11/2/2022      JEOL-Sr 1200      20000

Structure Type	Concentration (struc/cm2)	95% Confidence Interval (struc/cm2)	Structure Count' Prim/Total
ASTM Asbestos >=0.5µm - <5.0µm	22087.201	15705.699 - 30194.337 - Poisson	39
ASTM Asbestos >=5.0µm	6796.062	3511.865 - 11871.588 - Poisson	12
ASTM Libby-Other >0.5µm	< 566.338	0 - 2089.223 - Poisson	0
ASTM Total Asbestos >=0.5µm	28883.263	21505.572 - 37976.394 - Poisson	51

<sup>1</sup> Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S14  
Client Sample No.: W14  
Filter Fraction: 1  
Residual Ash Vol: 50 ml  
Begin Volume: 50 ml  
Volume Taken: 0.25 ml

Aliquot Dilution: 0.005  
Final Dilution: 0.005

Sample Area/Mass/Volume (cm2) : 309.68  
Lab Filter Area (mm2) : 289.38  
Grid Openings Analyzed : 5  
Average Grid Opening Area : 0.011  
Area Analyzed (mm2) : 0.055  
Analytical Sens. (struc/cm2) : 3397.994

Analyst(s)      Analysis Date      Microscope      Magnification  
KM                      11/2/2022      JEOL-Sr 1200      20000

Structure Type	Concentration (struc/cm2)	95% Confidence Interval (struc/cm2)	Structure Count' Prim/Total
ASTM Asbestos >=0.5µm - <5.0µm	71357.883	44173.927 - 109079.019 - Poisson	21
ASTM Asbestos >=5.0µm	64561.894	38873.056 - 100821.892 - Poisson	19
ASTM Libby-Other >0.5µm	3397.994	84.95 - 18933.625 - Poisson	1
ASTM Total Asbestos >=0.5µm	135919.776	97097.69 - 185085.358 - Poisson	40

<sup>1</sup> Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

\* One-sided upper 95% Poisson confidence limits may be used to calculate sample concentrations ([Struc count] \* [Analytical Sensitivity]) when the structure count is below 4. The limits are: 0 str - 0, 1 str - 1, 2 str - 2, 3 str - 3

**ASTM D 6480-19 - Surface Wipes Final Report**

Job Number: 221076      SEA  
Client: Trinity Environmental

Report Number: 221076R01  
Date Received: 10/28/2022

Project Name: Asbestos Project- Dust Wipes 10-28-2022

Lab/Cor Sample No.: S15	Sample Area/Mass/Volume (cm2) : 309.68
Client Sample No.: W15	Lab Filter Area (mm2) : 289.38
Filter Fraction: 1	Aliquot Dilution: 0.02
Residual Ash Vol: 50 ml	Final Dilution: 0.02
Begin Volume: 50 ml	Grid Openings Analyzed : 5
Volume Taken: 1 ml	Average Grid Opening Area : 0.011
	Area Analyzed (mm2) : 0.055
	Analytical Sens. (struc/cm2) : 849.499

<b>Analyst(s)</b>	<b>Analysis Date</b>	<b>Microscope</b>	<b>Magnification</b>
KM	11/2/2022	JEOL-Sr 1200	20000

Structure Type	Concentration (struc/cm2)	95% Confidence Interval (struc/cm2)	Structure Count' Prim/Total
ASTM Asbestos >=0.5µm - <5.0µm	17839.471	11043.482 - 27269.755 - Poisson	21
ASTM Asbestos >=5.0µm	5946.49	2390.489 - 12252.318 - Poisson	7
ASTM Libby-Other >0.5µm	< 849.499	0 - 3133.8 - Poisson	0
ASTM Total Asbestos >=0.5µm	23785.961	15805.771 - 34377.509 - Poisson	28

<sup>1</sup> Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S16	Sample Area/Mass/Volume (cm2) : 929.03
Client Sample No.: W16	Lab Filter Area (mm2) : 289.38
Filter Fraction: 1	Aliquot Dilution: 0.02
Residual Ash Vol: 50 ml	Final Dilution: 0.02
Begin Volume: 50 ml	Grid Openings Analyzed : 5
Volume Taken: 1 ml	Average Grid Opening Area : 0.011
	Area Analyzed (mm2) : 0.055
	Analytical Sens. (struc/cm2) : 283.169

<b>Analyst(s)</b>	<b>Analysis Date</b>	<b>Microscope</b>	<b>Magnification</b>
KM	11/2/2022	JEOL-Sr 1200	20000

Structure Type	Concentration (struc/cm2)	95% Confidence Interval (struc/cm2)	Structure Count' Prim/Total
ASTM Asbestos >=0.5µm - <5.0µm	14158.462	10508.977 - 18666.234 - Poisson	50
ASTM Asbestos >=5.0µm	3964.369	2167.377 - 6651.646 - Poisson	14
ASTM Libby-Other >0.5µm	< 283.169	0 - 1044.611 - Poisson	0
ASTM Total Asbestos >=0.5µm	18122.832	13956.28 - 23142.573 - Poisson	64

<sup>1</sup> Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

\* One-sided upper 95% Poisson confidence limits may be used to calculate sample concentrations ([Struc count] \* [Analytical Sensitivity]) when the structure count is below 4. The limits are: 0 str - 0, 1 str - 1, 2 str - 2, 3 str - 3

**ASTM D 6480-19 - Surface Wipes Final Report**

Job Number: 221076      SEA  
Client: Trinity Environmental

Report Number: 221076R01  
Date Received: 10/28/2022

Project Name: Asbestos Project- Dust Wipes 10-28-2022

Lab/Cor Sample No.: S17	Sample Area/Mass/Volume (cm2) : 929.03
Client Sample No.: W17	Lab Filter Area (mm2) : 289.38
Filter Fraction: 1	Aliquot Dilution: 0.02
Residual Ash Vol: 50 ml	Final Dilution: 0.02
Begin Volume: 50 ml	Grid Openings Analyzed : 4
Volume Taken: 1 ml	Average Grid Opening Area : 0.011
	Area Analyzed (mm2) : 0.044
	Analytical Sens. (struc/cm2) : 353.962

Analyst(s)	Analysis Date	Microscope	Magnification
SB	11/3/2022	JEOL-Sr 1200	20000

Structure Type	Concentration (struc/cm2)	95% Confidence Interval (struc/cm2)	Structure Count' Prim/Total
ASTM Asbestos >=0.5µm - <5.0µm	30086.733	23559.278 - 38602.645 - Gaussian	85
ASTM Asbestos >=5.0µm	7079.231	4324.348 - 10933.519 - Poisson	20
ASTM Libby-Other >0.5µm	< 353.962	0 - 1305.764 - Poisson	0
ASTM Total Asbestos >=0.5µm	37165.964	29103.25 - 47686.232 - Gaussian	105

<sup>1</sup> Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S18	Sample Area/Mass/Volume (cm2) : 929.03
Client Sample No.: W18	Lab Filter Area (mm2) : 289.38
Filter Fraction: 1	Aliquot Dilution: 0.02
Residual Ash Vol: 50 ml	Final Dilution: 0.02
Begin Volume: 50 ml	Grid Openings Analyzed : 5
Volume Taken: 1 ml	Average Grid Opening Area : 0.011
	Area Analyzed (mm2) : 0.055
	Analytical Sens. (struc/cm2) : 283.169

Analyst(s)	Analysis Date	Microscope	Magnification
SB	11/3/2022	JEOL-Sr 1200	20000

Structure Type	Concentration (struc/cm2)	95% Confidence Interval (struc/cm2)	Structure Count' Prim/Total
ASTM Asbestos >=0.5µm - <5.0µm	4530.708	2589.866 - 7357.587 - Poisson	16
ASTM Asbestos >=5.0µm	283.169	7.079 - 1577.819 - Poisson	1
ASTM Libby-Other >0.5µm	< 283.169	0 - 1044.611 - Poisson	0
ASTM Total Asbestos >=0.5µm	4813.877	2804.508 - 7707.584 - Poisson	17

<sup>1</sup> Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

\* One-sided upper 95% Poisson confidence limits may be used to calculate sample concentrations ([Struc count] \* [Analytical Sensitivity]) when the structure count is below 4. The limits are: 0 str - 0, 1 str - 1, 2 str - 2, 3 str - 3

**ASTM D 6480-19 - Surface Wipes Final Report**

Job Number: 221076      SEA  
Client: Trinity Environmental

Report Number: 221076R01  
Date Received: 10/28/2022

Project Name: Asbestos Project- Dust Wipes 10-28-2022

Lab/Cor Sample No.: S19  
Client Sample No.: W19  
Filter Fraction: 1  
Residual Ash Vol: 50 ml  
Begin Volume: 50 ml  
Volume Taken: 0.25 ml

Aliquot Dilution: 0.005  
Final Dilution: 0.005

Sample Area/Mass/Volume (cm2) : 929.03  
Lab Filter Area (mm2) : 289.38  
Grid Openings Analyzed : 5  
Average Grid Opening Area : 0.011  
Area Analyzed (mm2) : 0.055  
Analytical Sens. (struc/cm2) : 1132.677

Analyst(s)	Analysis Date	Microscope	Magnification
SB	11/3/2022	JEOL-Sr 1200	20000
KM	11/3/2022	JEOL-Sr 1200	20000

Structure Type	Concentration (struc/cm2)	95% Confidence Interval (struc/cm2)	Structure Count' Prim/Total
ASTM Asbestos >=0.5µm - <5.0µm	16990.155	9509.956 - 28023.562 - Poisson	15
ASTM Asbestos >=5.0µm	< 1132.677	0 - 4178.445 - Poisson	0
ASTM Libby-Other >0.5µm	< 1132.677	0 - 4178.445 - Poisson	0
ASTM Total Asbestos >=0.5µm	16990.155	9509.956 - 28023.562 - Poisson	15

<sup>1</sup> Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S20  
Client Sample No.: W20  
Filter Fraction: 1  
Residual Ash Vol: 50 ml  
Begin Volume: 50 ml  
Volume Taken: 0.25 ml

Aliquot Dilution: 0.005  
Final Dilution: 0.005

Sample Area/Mass/Volume (cm2) : 929.03  
Lab Filter Area (mm2) : 289.38  
Grid Openings Analyzed : 5  
Average Grid Opening Area : 0.011  
Area Analyzed (mm2) : 0.055  
Analytical Sens. (struc/cm2) : 1132.677

Analyst(s)	Analysis Date	Microscope	Magnification
SB	11/3/2022	JEOL-Sr 1200	20000

Structure Type	Concentration (struc/cm2)	95% Confidence Interval (struc/cm2)	Structure Count' Prim/Total
ASTM Asbestos >=0.5µm - <5.0µm	9061.416	3912.266 - 17855.52 - Poisson	8
ASTM Asbestos >=5.0µm	< 1132.677	0 - 4178.445 - Poisson	0
ASTM Libby-Other >0.5µm	< 1132.677	0 - 4178.445 - Poisson	0
ASTM Total Asbestos >=0.5µm	9061.416	3912.266 - 17855.52 - Poisson	8

<sup>1</sup> Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

\* One-sided upper 95% Poisson confidence limits may be used to calculate sample concentrations ([Struc count] \* [Analytical Sensitivity]) when the structure count is below 4. The limits are: 0 str - 0, 1 str - 1, 2 str - 2, 3 str - 3

**ASTM D 6480-19 - Surface Wipes Final Report**

Job Number: 221076      SEA  
Client: Trinity Environmental

Report Number: 221076R01  
Date Received: 10/28/2022

Project Name: Asbestos Project- Dust Wipes 10-28-2022

Lab/Cor Sample No.: S21  
Client Sample No.: W21  
Filter Fraction: 1  
Residual Ash Vol: 50 ml  
Begin Volume: 50 ml  
Volume Taken: 0.5 ml

Aliquot Dilution: 0.01  
Final Dilution: 0.01

Sample Area/Mass/Volume (cm2) : 929.03  
Lab Filter Area (mm2) : 289.38  
Grid Openings Analyzed : 5  
Average Grid Opening Area : 0.011  
Area Analyzed (mm2) : 0.055  
Analytical Sens. (struc/cm2) : 566.338

Analyst(s)      Analysis Date      Microscope      Magnification  
SB                      11/3/2022      JEOL-Sr 1200      20000

Structure Type	Concentration (struc/cm2)	95% Confidence Interval (struc/cm2)	Structure Count' Prim/Total
ASTM Asbestos >=0.5µm - <5.0µm	10194.093	6041.699 - 16111.198 - Poisson	18
ASTM Asbestos >=5.0µm	2265.354	617.309 - 5800.439 - Poisson	4
ASTM Libby-Other >0.5µm	< 566.338	0 - 2089.223 - Poisson	0
ASTM Total Asbestos >=0.5µm	12459.447	7808.675 - 18864.169 - Poisson	22

<sup>1</sup> Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S22  
Client Sample No.: W22  
Filter Fraction: 1  
Residual Ash Vol: 50 ml  
Begin Volume: 50 ml  
Volume Taken: 3 ml

Aliquot Dilution: 0.06  
Final Dilution: 0.06

Sample Area/Mass/Volume (cm2) : 929.03  
Lab Filter Area (mm2) : 289.38  
Grid Openings Analyzed : 5  
Average Grid Opening Area : 0.011  
Area Analyzed (mm2) : 0.055  
Analytical Sens. (struc/cm2) : 94.39

Analyst(s)      Analysis Date      Microscope      Magnification  
SB                      11/3/2022      JEOL-Sr 1200      20000

Structure Type	Concentration (struc/cm2)	95% Confidence Interval (struc/cm2)	Structure Count' Prim/Total
ASTM Asbestos >=0.5µm - <5.0µm	1510.236	863.289 - 2452.529 - Poisson	16
ASTM Asbestos >=5.0µm	< 94.39	0 - 348.204 - Poisson	0
ASTM Libby-Other >0.5µm	< 94.39	0 - 348.204 - Poisson	0
ASTM Total Asbestos >=0.5µm	1510.236	863.289 - 2452.529 - Poisson	16

<sup>1</sup> Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

**ASTM D 6480-19 - Surface Wipes Final Report**

Job Number: 221076      SEA  
Client: Trinity Environmental

Report Number: 221076R01  
Date Received: 10/28/2022

Project Name: Asbestos Project- Dust Wipes 10-28-2022

Lab/Cor Sample No.: S23	Sample Area/Mass/Volume (cm2) : 929.03
Client Sample No.: W23	Lab Filter Area (mm2) : 289.38
Filter Fraction: 1	Aliquot Dilution: 0.06
Residual Ash Vol: 50 ml	Final Dilution: 0.06
Begin Volume: 50 ml	Grid Openings Analyzed : 5
Volume Taken: 3 ml	Average Grid Opening Area : 0.011
	Area Analyzed (mm2) : 0.055
	Analytical Sens. (struc/cm2) : 94.39

<b>Analyst(s)</b>	<b>Analysis Date</b>	<b>Microscope</b>	<b>Magnification</b>
KM	11/3/2022	JEOL-Sr 1200	20000

Structure Type	Concentration (struc/cm2)	95% Confidence Interval (struc/cm2)	Structure Count <sup>1</sup> Prim/Total
ASTM Asbestos >=0.5µm - <5.0µm	2737.303	1833.238 - 3931.239 - Poisson	29
ASTM Asbestos >=5.0µm	471.949	153.289 - 1101.434 - Poisson	5
ASTM Libby-Other >0.5µm	< 94.39	0 - 348.204 - Poisson	0
ASTM Total Asbestos >=0.5µm	3209.251	2222.407 - 4484.646 - Poisson	34

<sup>1</sup> Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S24	Sample Area/Mass/Volume (cm2) : 929.03
Client Sample No.: W24	Lab Filter Area (mm2) : 289.38
Filter Fraction: 1	Aliquot Dilution: 0.02
Residual Ash Vol: 50 ml	Final Dilution: 0.02
Begin Volume: 50 ml	Grid Openings Analyzed : 5
Volume Taken: 1 ml	Average Grid Opening Area : 0.011
	Area Analyzed (mm2) : 0.055
	Analytical Sens. (struc/cm2) : 283.169

<b>Analyst(s)</b>	<b>Analysis Date</b>	<b>Microscope</b>	<b>Magnification</b>
KM	11/3/2022	JEOL-Sr 1200	20000

Structure Type	Concentration (struc/cm2)	95% Confidence Interval (struc/cm2)	Structure Count <sup>1</sup> Prim/Total
ASTM Asbestos >=0.5µm - <5.0µm	4530.708	2589.866 - 7357.587 - Poisson	16
ASTM Asbestos >=5.0µm	566.338	68.527 - 2045.898 - Poisson	2
ASTM Libby-Other >0.5µm	< 283.169	0 - 1044.611 - Poisson	0
ASTM Total Asbestos >=0.5µm	5097.046	3020.85 - 8055.599 - Poisson	18

<sup>1</sup> Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

\* One-sided upper 95% Poisson confidence limits may be used to calculate sample concentrations ([Struc count] \* [Analytical Sensitivity]) when the structure count is below 4. The limits are: 0 str - 0, 1 str - 1, 2 str - 2, 3 str - 3

**ASTM D 6480-19 - Surface Wipes Final Report**

Job Number: 221076      SEA  
 Client: Trinity Environmental

Report Number: 221076R01  
 Date Received: 10/28/2022

Project Name: Asbestos Project- Dust Wipes 10-28-2022

Lab/Cor Sample No.: S25  
 Client Sample No.: W25  
 Filter Fraction: 1  
 Residual Ash Vol: 50 ml  
 Begin Volume: 50 ml  
 Volume Taken: 0.5 ml

Aliquot Dilution: 0.01  
 Final Dilution: 0.01

Sample Area/Mass/Volume (cm2) : 309.68  
 Lab Filter Area (mm2) : 289.38  
 Grid Openings Analyzed : 5  
 Average Grid Opening Area : 0.011  
 Area Analyzed (mm2) : 0.055  
 Analytical Sens. (struc/cm2) : 1698.997

Analyst(s)      Analysis Date      Microscope      Magnification  
 KM              11/3/2022          JEOL-Sr 1200      20000

Structure Type	Concentration (struc/cm2)	95% Confidence Interval (struc/cm2)	Structure Count' Prim/Total
ASTM Asbestos >=0.5µm - <5.0µm	27183.955	15539.028 - 44145.044 - Poisson	16
ASTM Asbestos >=5.0µm	11892.98	4780.978 - 24504.637 - Poisson	7
ASTM Libby-Other >0.5µm	< 1698.997	0 - 6267.601 - Poisson	0
ASTM Total Asbestos >=0.5µm	39076.936	24773.078 - 58635.792 - Poisson	23

<sup>1</sup> Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S26  
 Client Sample No.: W26  
 Filter Fraction: 1  
 Residual Ash Vol: 50 ml  
 Begin Volume: 50 ml  
 Volume Taken: 0.5 ml

Aliquot Dilution: 0.01  
 Final Dilution: 0.01

Sample Area/Mass/Volume (cm2) : 309.68  
 Lab Filter Area (mm2) : 289.38  
 Grid Openings Analyzed : 5  
 Average Grid Opening Area : 0.011  
 Area Analyzed (mm2) : 0.055  
 Analytical Sens. (struc/cm2) : 1698.997

Analyst(s)      Analysis Date      Microscope      Magnification  
 KM              11/3/2022          JEOL-Sr 1200      20000

Structure Type	Concentration (struc/cm2)	95% Confidence Interval (struc/cm2)	Structure Count' Prim/Total
ASTM Asbestos >=0.5µm - <5.0µm	13591.978	5868.336 - 26782.992 - Poisson	8
ASTM Asbestos >=5.0µm	3397.994	411.157 - 12275.255 - Poisson	2
ASTM Libby-Other >0.5µm	< 1698.997	0 - 6267.601 - Poisson	0
ASTM Total Asbestos >=0.5µm	16989.972	8146.692 - 31246.258 - Poisson	10

<sup>1</sup> Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

\* One-sided upper 95% Poisson confidence limits may be used to calculate sample concentrations ([Struc count] \* [Analytical Sensitivity]) when the structure count is below 4. The limits are: 0 str - 0, 1 str - 1, 2 str - 2, 3 str - 3

**ASTM D 6480-19 - Surface Wipes Final Report**

Job Number: 221076      SEA  
Client: Trinity Environmental

Report Number: 221076R01  
Date Received: 10/28/2022

Project Name: Asbestos Project- Dust Wipes 10-28-2022

Lab/Cor Sample No.: S27  
Client Sample No.: W27  
Filter Fraction: 1  
Residual Ash Vol: 50 ml  
Begin Volume: 50 ml  
Volume Taken: 0.5 ml

Aliquot Dilution: 0.01  
Final Dilution: 0.01

Sample Area/Mass/Volume (cm2) : 929.03  
Lab Filter Area (mm2) : 289.38  
Grid Openings Analyzed : 4  
Average Grid Opening Area : 0.011  
Area Analyzed (mm2) : 0.044  
Analytical Sens. (struc/cm2) : 707.923

Analyst(s)      Analysis Date      Microscope      Magnification  
KM              11/4/2022      JEOL-Sr 1200      20000

Structure Type	Concentration (struc/cm2)	95% Confidence Interval (struc/cm2)	Structure Count <sup>1</sup> Prim/Total
ASTM Asbestos >=0.5µm - <5.0µm	7787.154	3887.206 - 13934.051 - Poisson	11
ASTM Asbestos >=5.0µm	2831.692	771.636 - 7250.549 - Poisson	4
ASTM Libby-Other >0.5µm	< 707.923	0 - 2611.528 - Poisson	0
ASTM Total Asbestos >=0.5µm	10618.847	5943.723 - 17514.726 - Poisson	15

<sup>1</sup> Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S28  
Client Sample No.: W28  
Filter Fraction: 1  
Residual Ash Vol: 50 ml  
Begin Volume: 50 ml  
Volume Taken: 0.5 ml

Aliquot Dilution: 0.01  
Final Dilution: 0.01

Sample Area/Mass/Volume (cm2) : 929.03  
Lab Filter Area (mm2) : 289.38  
Grid Openings Analyzed : 4  
Average Grid Opening Area : 0.011  
Area Analyzed (mm2) : 0.044  
Analytical Sens. (struc/cm2) : 707.923

Analyst(s)      Analysis Date      Microscope      Magnification  
KM              11/4/2022      JEOL-Sr 1200      20000

Structure Type	Concentration (struc/cm2)	95% Confidence Interval (struc/cm2)	Structure Count <sup>1</sup> Prim/Total
ASTM Asbestos >=0.5µm - <5.0µm	7787.154	3887.206 - 13934.051 - Poisson	11
ASTM Asbestos >=5.0µm	2123.769	438.204 - 6206.362 - Poisson	3
ASTM Libby-Other >0.5µm	< 707.923	0 - 2611.528 - Poisson	0
ASTM Total Asbestos >=0.5µm	9910.924	5418.444 - 16629.114 - Poisson	14

<sup>1</sup> Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

\* One-sided upper 95% Poisson confidence limits may be used to calculate sample concentrations ([Struc count] \* [Analytical Sensitivity]) when the structure count is below 4. The limits are: 0 str - 0, 1 str - 1, 2 str - 2, 3 str - 3

**ASTM D 6480-19 - Surface Wipes Final Report**

Job Number: 221076      SEA  
Client: Trinity Environmental

Report Number: 221076R01  
Date Received: 10/28/2022

Project Name: Asbestos Project- Dust Wipes 10-28-2022

Lab/Cor Sample No.: S29  
Client Sample No.: W29  
Filter Fraction: 1  
Residual Ash Vol: 50 ml  
Begin Volume: 50 ml  
Volume Taken: 1 ml

Aliquot Dilution: 0.02  
Final Dilution: 0.02

Sample Area/Mass/Volume (cm2) : 929.03  
Lab Filter Area (mm2) : 289.38  
Grid Openings Analyzed : 4  
Average Grid Opening Area : 0.011  
Area Analyzed (mm2) : 0.044  
Analytical Sens. (struc/cm2) : 353.962

Analyst(s)      Analysis Date      Microscope      Magnification  
KM              11/4/2022      JEOL-Sr 1200      20000

Structure Type	Concentration (struc/cm2)	95% Confidence Interval (struc/cm2)	Structure Count' Prim/Total
ASTM Asbestos >=0.5µm - <5.0µm	4601.5	2450.122 - 7868.919 - Poisson	13
ASTM Asbestos >=5.0µm	1415.846	385.818 - 3625.274 - Poisson	4
ASTM Libby-Other >0.5µm	< 353.962	0 - 1305.764 - Poisson	0
ASTM Total Asbestos >=0.5µm	6017.347	3505.635 - 9634.48 - Poisson	17

<sup>1</sup> Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S30  
Client Sample No.: W30  
Filter Fraction: 1  
Residual Ash Vol: 50 ml  
Begin Volume: 50 ml  
Volume Taken: 1 ml

Aliquot Dilution: 0.02  
Final Dilution: 0.02

Sample Area/Mass/Volume (cm2) : 309.68  
Lab Filter Area (mm2) : 289.38  
Grid Openings Analyzed : 4  
Average Grid Opening Area : 0.011  
Area Analyzed (mm2) : 0.044  
Analytical Sens. (struc/cm2) : 1061.873

Analyst(s)      Analysis Date      Microscope      Magnification  
SB              11/4/2022      JEOL-Sr 1200      20000  
KM              11/4/2022      JEOL-Sr 1200      20000

Structure Type	Concentration (struc/cm2)	95% Confidence Interval (struc/cm2)	Structure Count' Prim/Total
ASTM Asbestos >=0.5µm - <5.0µm	26546.831	17178.985 - 39188.432 - Poisson	25
ASTM Asbestos >=5.0µm	23361.212	14641.108 - 35369.936 - Poisson	22
ASTM Libby-Other >0.5µm	< 1061.873	0 - 3917.25 - Poisson	0
ASTM Total Asbestos >=0.5µm	49908.043	36670.731 - 66368.14 - Poisson	47

<sup>1</sup> Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

\* One-sided upper 95% Poisson confidence limits may be used to calculate sample concentrations ([Struc count] \* [Analytical Sensitivity]) when the structure count is below 4. The limits are: 0 str - 0, 1 str - 1, 2 str - 2, 3 str - 3

**ASTM D 6480-19 - Surface Wipes Final Report**

Job Number: 221076      SEA  
Client: Trinity Environmental

Report Number: 221076R01  
Date Received: 10/28/2022

Project Name: Asbestos Project- Dust Wipes 10-28-2022

Lab/Cor Sample No.: S31	Sample Area/Mass/Volume (cm2) : 929.03
Client Sample No.: W31	Lab Filter Area (mm2) : 289.38
Filter Fraction: 1	Aliquot Dilution: 0.02
Residual Ash Vol: 50 ml	Final Dilution: 0.02
Begin Volume: 50 ml	Grid Openings Analyzed : 4
Volume Taken: 1 ml	Average Grid Opening Area : 0.011
	Area Analyzed (mm2) : 0.044
	Analytical Sens. (struc/cm2) : 353.962

Analyst(s)	Analysis Date	Microscope	Magnification
SB	11/4/2022	JEOL-Sr 1200	20000

Structure Type	Concentration (struc/cm2)	95% Confidence Interval (struc/cm2)	Structure Count' Prim/Total
ASTM Asbestos >=0.5µm - <5.0µm	24069.386	19796.032 - 31830.725 - Gaussian	68
ASTM Asbestos >=5.0µm	13450.539	9518.026 - 18461.927 - Poisson	38
ASTM Libby-Other >0.5µm	< 353.962	0 - 1305.764 - Poisson	0
ASTM Total Asbestos >=0.5µm	37519.925	31238.732 - 49998.694 - Gaussian	106

<sup>1</sup> Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S32	Sample Area/Mass/Volume (cm2) : 309.68
Client Sample No.: W32	Lab Filter Area (mm2) : 289.38
Filter Fraction: 1	Aliquot Dilution: 0.01
Residual Ash Vol: 50 ml	Final Dilution: 0.01
Begin Volume: 50 ml	Grid Openings Analyzed : 4
Volume Taken: 0.5 ml	Average Grid Opening Area : 0.011
	Area Analyzed (mm2) : 0.044
	Analytical Sens. (struc/cm2) : 2123.747

Analyst(s)	Analysis Date	Microscope	Magnification
SB	11/4/2022	JEOL-Sr 1200	20000

Structure Type	Concentration (struc/cm2)	95% Confidence Interval (struc/cm2)	Structure Count' Prim/Total
ASTM Asbestos >=0.5µm - <5.0µm	138043.523	106535.62 - 175948.151 - Poisson	65
ASTM Asbestos >=5.0µm	63712.395	42986.753 - 90953.692 - Poisson	30
ASTM Libby-Other >0.5µm	< 2123.747	0 - 7834.501 - Poisson	0
ASTM Total Asbestos >=0.5µm	201755.918	154566.271 - 255444.23 - Gaussian	95

<sup>1</sup> Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

\* One-sided upper 95% Poisson confidence limits may be used to calculate sample concentrations ([Struc count] \* [Analytical Sensitivity]) when the structure count is below 4. The limits are: 0 str - 0, 1 str - 1, 2 str - 2, 3 str - 3

**ASTM D 6480-19 - Surface Wipes Final Report**

Job Number: 221076      SEA  
Client: Trinity Environmental

Report Number: 221076R01  
Date Received: 10/28/2022

Project Name: Asbestos Project- Dust Wipes 10-28-2022

Lab/Cor Sample No.: S33  
Client Sample No.: W33  
Filter Fraction: 1  
Residual Ash Vol: 50 ml  
Begin Volume: 50 ml  
Volume Taken: 1 ml

Aliquot Dilution: 0.02  
Final Dilution: 0.02

Sample Area/Mass/Volume (cm2) : 929.03  
Lab Filter Area (mm2) : 289.38  
Grid Openings Analyzed : 4  
Average Grid Opening Area : 0.011  
Area Analyzed (mm2) : 0.044  
Analytical Sens. (struc/cm2) : 353.962

Analyst(s)      Analysis Date      Microscope      Magnification  
SB              11/4/2022      JEOL-Sr 1200      20000

Structure Type	Concentration (struc/cm2)	95% Confidence Interval (struc/cm2)	Structure Count' Prim/Total
ASTM Asbestos >=0.5µm - <5.0µm	707.923	85.659 - 2557.372 - Poisson	2
ASTM Asbestos >=5.0µm	707.923	85.659 - 2557.372 - Poisson	2
ASTM Libby-Other >0.5µm	< 353.962	0 - 1305.764 - Poisson	0
ASTM Total Asbestos >=0.5µm	1415.846	385.818 - 3625.274 - Poisson	4

<sup>1</sup> Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

Lab/Cor Sample No.: S34  
Client Sample No.: W34  
Filter Fraction: 1  
Residual Ash Vol: 50 ml  
Begin Volume: 50 ml  
Volume Taken: 1 ml

Aliquot Dilution: 0.02  
Final Dilution: 0.02

Sample Area/Mass/Volume (cm2) : 309.68  
Lab Filter Area (mm2) : 289.38  
Grid Openings Analyzed : 4  
Average Grid Opening Area : 0.011  
Area Analyzed (mm2) : 0.044  
Analytical Sens. (struc/cm2) : 1061.873

Analyst(s)      Analysis Date      Microscope      Magnification  
SB              11/4/2022      JEOL-Sr 1200      20000  
KM              11/4/2022      JEOL-Sr 1200      20000

Structure Type	Concentration (struc/cm2)	95% Confidence Interval (struc/cm2)	Structure Count' Prim/Total
ASTM Asbestos >=0.5µm - <5.0µm	10618.733	5091.682 - 19528.911 - Poisson	10
ASTM Asbestos >=5.0µm	3185.62	657.3 - 9309.443 - Poisson	3
ASTM Libby-Other >0.5µm	< 1061.873	0 - 3917.25 - Poisson	0
ASTM Total Asbestos >=0.5µm	13804.352	7350.287 - 23606.504 - Poisson	13

<sup>1</sup> Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

\* One-sided upper 95% Poisson confidence limits may be used to calculate sample concentrations ([Struc count] \* [Analytical Sensitivity]) when the structure count is below 4. The limits are: 0 str - 0, 1 str - 1, 2 str - 2, 3 str - 3

**ASTM D 6480-19 - Surface Wipes Final Report**

Job Number: 221076      SEA  
 Client: Trinity Environmental

Report Number: 221076R01  
 Date Received: 10/28/2022

Project Name: Asbestos Project- Dust Wipes 10-28-2022

Lab/Cor Sample No.: S35  
 Client Sample No.: W35  
 Filter Fraction: 1  
 Residual Ash Vol: 50 ml  
 Begin Volume: 50 ml  
 Volume Taken: 0.5 ml

Aliquot Dilution: 0.01  
 Final Dilution: 0.01

Sample Area/Mass/Volume (cm2) : 929.03  
 Lab Filter Area (mm2) : 289.38  
 Grid Openings Analyzed : 4  
 Average Grid Opening Area : 0.011  
 Area Analyzed (mm2) : 0.044  
 Analytical Sens. (struc/cm2) : 707.923

Analyst(s)      Analysis Date      Microscope      Magnification  
 SB              11/4/2022              JEOL-Sr 1200              20000

Structure Type	Concentration (struc/cm2)	95% Confidence Interval (struc/cm2)	Structure Count <sup>1</sup> Prim/Total
ASTM Asbestos >=0.5µm - <5.0µm	14158.462	8648.697 - 21867.037 - Poisson	20
ASTM Asbestos >=5.0µm	3539.616	1149.667 - 8260.755 - Poisson	5
ASTM Libby-Other >0.5µm	< 707.923	0 - 2611.528 - Poisson	0
ASTM Total Asbestos >=0.5µm	17698.078	11452.78 - 26125.903 - Poisson	25

<sup>1</sup> Concentration and 95% Confidence Level are calculated based upon the number showing under the Structure Count header.

*Digital Signature for Lab Use Only*  
  
 Kate March  
 Quality Control Officer

\* One-sided upper 95% Poisson confidence limits may be used to calculate sample concentrations ([Struc count] \* [Analytical Sensitivity]) when the structure count is below 4. The limits are: 0 str - 0, 1 str - 1, 2 str - 2, 3 str - 3

**ASTM D 6480-19 - Surface Wipes Raw Data -  
 Final Report**

Job Number: 221076      SEA  
 Client: Trinity Environmental

Ref. D6480-19

Report Number: 221076R01  
 Date Received: 10/28/2022

Project Name: Asbestos Project- Dust Wipes 10-28-2022

Project No.:

Lab/Cor Sample No: S1  
 Client Sample No: W1

Gr	No.	Loc.	ID	Prim	Tot	Class	Length	Width	Aspect	Analyte	Elements	Comment	Count Categories
G7	1	E51	CM	1		Fiber	6	0.1	60	Chrysotile			ASTM_>=5.0, ASTM_Total
G7	1	E51	CDQ	2		Fiber	7.25	0.1	72.5	Chrysotile	Mg, Si		ASTM_>=5.0, ASTM_Total
						ItemType	ItemNum				Confirmed	Comment	
						Brightfield	J69483BF						
						Diffraction	J69483DF			SB	10/31/2022	0.53nm ROW SPACING	
						Spectra	J69483SP			SB	10/31/2022		
G7	1	E51	CM	3		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E51	CM	4		Fiber	1.5	0.1	15	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E51	CM	5		Fiber	2.5	0.1	25	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E51	CM	6		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E51	CM	7		Fiber	3.5	0.15	23.3	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E51	CM	8		Fiber	0.8	0.15	5.3	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E51	CM	9		Bundle	3.5	0.3	11.7	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E51	CM	10		Matrix 2-0	2.5	2.5	1	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E51	CM	11		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E51	CM	12		Fiber	5.5	0.1	55	Chrysotile			ASTM_>=5.0, ASTM_Total
G7	1	E51	CM	13		Bundle	6.5	0.5	13	Chrysotile			ASTM_>=5.0, ASTM_Total
G7	1	E51	CM	14		Bundle	12	0.2	60	Chrysotile			ASTM_>=5.0, ASTM_Total
G7	1	E51	CMQ	15		Matrix 2-0	1	1	1	Chrysotile	Mg, Si		ASTM_Total, ASTM_0.5-5.0
G7	1	E51	CM	16		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E51	CM	17		Fiber	4.5	0.1	45	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E51	CM	18		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E51	CM	19		Fiber	3.5	0.1	35	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E51	CM	20		Bundle	3	0.25	12	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E51	CM	21		Fiber	2.5	0.1	25	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E51	CM	22		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E51	CD	23		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E51	CM	24		Fiber	5.5	0.1	55	Chrysotile			ASTM_>=5.0, ASTM_Total
G7	1	E51	CD	25		Fiber	3.5	0.1	35	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E51	CM	26		Fiber	6	0.1	60	Chrysotile			ASTM_>=5.0, ASTM_Total
G7	1	E51	CM	27		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E51	CM	28		Fiber	5.5	0.1	55	Chrysotile			ASTM_>=5.0, ASTM_Total

**ASTM D 6480-19 - Surface Wipes Raw Data -  
 Final Report**

Job Number: 221076      SEA  
 Client: Trinity Environmental

Ref. D6480-19

Report Number: 221076R01

Project Name: Asbestos Project- Dust Wipes 10-28-2022

Date Received: 10/28/2022

Lab/Cor Sample No: S1  
 Client Sample No: W1

Gr	No.	Loc.	ID	Prim	Tot	Class	Length	Width	Aspect	Analyte	Elements	Comment	Count Categories
G7	1	E51	CM	29		Fiber	2.5	0.1	25	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E51	CD	30		Bundle	5.5	0.2	27.5	Chrysotile			ASTM_>=5.0, ASTM_Total
G7	1	E51	CM	31		Fiber	18	0.1	180	Chrysotile			ASTM_>=5.0, ASTM_Total
G7	1	E51	CM	32		Fiber	2	0.15	13.3	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E51	CM	33		Bundle	1.5	0.15	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E51	CD	34		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E51	CM	35		Fiber	7.5	0.1	75	Chrysotile			ASTM_>=5.0, ASTM_Total
G7	1	E51	CM	36		Bundle	0.75	0.15	5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E51	CM	37		Bundle	1.5	0.15	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E51	CM	38		Fiber	1.25	0.1	12.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E51	CM	39		Fiber	13.5	0.1	135	Chrysotile			ASTM_>=5.0, ASTM_Total
G7	1	E51	CM	40		Bundle	1.5	0.2	7.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E51	CM	41		Fiber	12	0.1	120	Chrysotile			ASTM_>=5.0, ASTM_Total
G7	1	E51	CM	42		Fiber	3.5	0.1	35	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E51	CM	43		Fiber	1.5	0.1	15	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E51	CM	44		Fiber	4.5	0.1	45	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E51	CM	45		Fiber	2.75	0.1	27.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E51	CM	46		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E51	CM	47		Fiber	7.5	0.1	75	Chrysotile			ASTM_>=5.0, ASTM_Total
G7	1	E51	CM	48		Fiber	0.8	0.1	8	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E51	CM	49		Fiber	2.5	0.1	25	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E51	CM	50		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E51	CM	51		Fiber	2.5	0.1	25	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E51	CM	52		Bundle	2	0.15	13.3	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E51	CM	53		Fiber	1.5	0.1	15	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E51	CM	54		Bundle	1.5	0.5	3	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	2	E42	CM	55		Fiber	4.5	0.1	45	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	2	E42	CM	56		Fiber	0.75	0.1	7.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	2	E42	CM	57		Fiber	9.5	0.15	63.3	Chrysotile			ASTM_>=5.0, ASTM_Total
G8	2	E42	CMQ	58		Fiber	7	0.2	35	Chrysotile			ASTM_>=5.0, ASTM_Total
G8	2	E42	CD	59		Fiber	4.5	0.1	45	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	2	E42	CM	60		Fiber	2.5	0.1	25	Chrysotile			ASTM_Total, ASTM_0.5-5.0

**ASTM D 6480-19 - Surface Wipes Raw Data -  
 Final Report**

Job Number: 221076      SEA  
 Client: Trinity Environmental

Ref. D6480-19

Report Number: 221076R01  
 Date Received: 10/28/2022

Project Name: Asbestos Project- Dust Wipes 10-28-2022

Lab/Cor Sample No: S1  
 Client Sample No: W1

Gr	No.	Loc.	ID	Prim Tot	Class	Length	Width	Aspect	Analyte	Elements	Comment	Count Categories
G8	2	E42	CM	61	Fiber	1.5	0.1	15	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	2	E42	CM	62	Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	2	E42	CM	63	Fiber	2.25	0.1	22.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	2	E42	CM	64	Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	2	E42	CM	65	Bundle	3.5	0.2	17.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	2	E42	CM	1	Fiber	2.25	0.1	22.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	2	E42	CM	2	Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	2	E42	CM	3	Fiber	2.5	0.1	25	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	2	E42	CM	4	Bundle	7.5	0.25	30	Chrysotile			ASTM_>=5.0, ASTM_Total
G8	2	E42	CM	5	Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	2	E42	CM	6	Fiber	7	0.15	46.7	Chrysotile			ASTM_>=5.0, ASTM_Total
G8	2	E42	CM	7	Fiber	2.5	0.1	25	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	2	E42	CD	8	Bundle	17	0.2	85	Chrysotile			ASTM_>=5.0, ASTM_Total
G8	2	E42	CM	9	Fiber	18	0.15	120	Chrysotile			ASTM_>=5.0, ASTM_Total
G8	2	E42	CM	10	Fiber	1.5	0.1	15	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	2	E42	CM	11	Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	2	E42	CM	12	Fiber	4	0.1	40	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	2	E42	CM	13	Fiber	1.5	0.1	15	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	2	E42	CM	14	Fiber	2	0.15	13.3	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	2	E42	CM	15	Fiber	8.5	0.15	56.7	Chrysotile			ASTM_>=5.0, ASTM_Total
G8	2	E42	CM	16	Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	2	E42	CM	17	Fiber	4	0.1	40	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	2	E42	CM	18	Bundle	1	0.15	6.7	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	2	E42	CM	19	Fiber	3	0.15	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	2	E42	CM	20	Fiber	8	0.15	53.3	Chrysotile			ASTM_>=5.0, ASTM_Total
G8	2	E42	CM	21	Fiber	4.5	0.15	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	2	E42	CM	22	Fiber	30	0.2	150	Chrysotile			ASTM_>=5.0, ASTM_Total
G8	2	E42	CM	23	Fiber	18	0.15	120	Chrysotile			ASTM_>=5.0, ASTM_Total
G8	2	E42	CM	24	Bundle	1.5	0.2	7.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	2	E42	CM	25	Fiber	2.5	0.1	25	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	2	E42	CM	26	Fiber	0.8	0.1	8	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	2	E42	CM	27	Fiber	3.5	0.1	35	Chrysotile			ASTM_Total, ASTM_0.5-5.0

**ASTM D 6480-19 - Surface Wipes Raw Data -  
 Final Report**

**Job Number: 221076**      **SEA**  
**Client: Trinity Environmental**

**Ref. D6480-19**

**Report Number: 221076R01**

**Project Name: Asbestos Project- Dust Wipes 10-28-2022**

**Date Received: 10/28/2022**

**Lab/Cor Sample No: S1**  
**Client Sample No: W1**

Gr	No.	Loc.	ID	Prim	Tot	Class	Length	Width	Aspect	Analyte	Elements	Comment	Count Categories
G8	2	E42	CM	28		Fiber	2.5	0.1	25	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	2	E42	CM	29		Fiber	2.5	0.1	25	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	2	E42	CM	30		Fiber	4.5	0.15	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	2	E42	CM	31		Fiber	0.8	0.1	8	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	2	E42	CM	32		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	2	E42	CM	33		Bundle	1.5	0.15	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	2	E42	CM	34		Fiber	2.5	0.1	25	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	2	E42	CM	35		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	2	E42	CM	36		Fiber	7.5	0.1	75	Chrysotile			ASTM_>=5.0, ASTM_Total
G8	2	E42	CM	37		Fiber	4.5	0.15	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0

**ASTM D 6480-19 - Surface Wipes Raw Data -  
Final Report**

Job Number: 221076      SEA  
Client: Trinity Environmental

Ref. D6480-19

Report Number: 221076R01  
Date Received: 10/28/2022

Project Name: Asbestos Project- Dust Wipes 10-28-2022

Lab/Cor Sample No: S2  
Client Sample No: W2

Gr	No.	Loc.	ID	Prim	Tot	Class	Length	Width	Aspect	Analyte	Elements	Comment	Count Categories
G4	1	E44	CM	1		Fiber	2.25	0.1	22.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	E44	CDQ	2		Fiber	9	0.15	60	Chrysotile	Mg, Si		ASTM_Total, ASTM_>=5.0
						ItemType	ItemNum				Confirmed	Comment	
						Brightfield	J69484BF						
						Diffraction	J69484DF			SB	10/31/2022	0.53nm ROW SPACING	
						Spectra	J69484SP			SB	10/31/2022		
G4	1	E44	CM	3		Fiber	2.25	0.15	15	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	E44	CM	4		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	E44	CM	5		Matrix 1-0	4.5	2.5	1.8	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	E44	CM	6		Fiber	6	0.1	60	Chrysotile			ASTM_Total, ASTM_>=5.0
G4	1	E44	CM	7		Matrix 1-3	13	8.5	1.5	Chrysotile			ASTM_Total, ASTM_>=5.0
G4	1	E44	CD	8		Matrix 12-0	8.5	4.5	1.9	Chrysotile			ASTM_>=5.0, ASTM_Total
G4	1	E44	CM	9		Bundle	7.5	0.5	15	Chrysotile			ASTM_Total, ASTM_>=5.0
G4	2	E43	CM	10		Bundle	1.5	0.15	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	E43	CM	11		Fiber	2.5	0.15	16.7	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	E43	CM	12		Fiber	22.5	0.2	112.5	Chrysotile			ASTM_Total, ASTM_>=5.0
G4	2	E43	CM	13		Fiber	1.5	0.2	7.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	E43	CM	14		Fiber	2.5	0.15	16.7	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	E43	CM	15		Fiber	1.5	0.1	15	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	E43	CM	16		Fiber	1.5	0.1	15	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	E43	CM	17		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	E43	CM	18		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	E43	CMQ	19		Fiber	1	0.1	10	Chrysotile	Mg, Si		ASTM_Total, ASTM_0.5-5.0
G4	3	F51	CD	20		Fiber	7.5	0.5	15	Chrysotile			ASTM_Total, ASTM_>=5.0
G4	3	F51	CM	21		Fiber	4.5	0.1	45	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	3	F51	CM	22		Bundle	3	0.2	15	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	3	F51	CM	23		Fiber	12.5	0.15	83.3	Chrysotile			ASTM_>=5.0, ASTM_Total
G4	3	F51	CM	24		Fiber	3	0.15	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	3	F51	CM	25		Fiber	15	0.15	100	Chrysotile			ASTM_>=5.0, ASTM_Total
G4	3	F51	CM	26		Fiber	3.5	0.1	35	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	3	F51	CM	27		Fiber	4.95	0.2	24.7	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	3	F51	CM	28		Fiber	2.5	0.1	25	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	3	F51	CM	29		Fiber	7	0.15	46.7	Chrysotile			ASTM_>=5.0, ASTM_Total

**ASTM D 6480-19 - Surface Wipes Raw Data -  
 Final Report**

Job Number: 221076      SEA  
 Client: Trinity Environmental

Ref. D6480-19

Report Number: 221076R01  
 Date Received: 10/28/2022

Project Name: Asbestos Project- Dust Wipes 10-28-2022

Lab/Cor Sample No: S2  
 Client Sample No: W2

Gr	No.	Loc.	ID	Prim	Tot	Class	Length	Width	Aspect	Analyte	Elements	Comment	Count Categories
G4	3	F51	CM		30	Fiber	3	0.15	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	3	F51	CD		31	Bundle	4.5	1.5	3	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	4	F42	CM		32	Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	4	F42	CM		33	Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	4	F42	CM		34	Fiber	27.5	0.15	183.3	Chrysotile			ASTM_>=5.0, ASTM_Total
G4	4	F42	CM		35	Fiber	6.5	0.15	43.3	Chrysotile			ASTM_>=5.0, ASTM_Total
G4	4	F42	CM		36	Fiber	7.5	0.15	50	Chrysotile			ASTM_>=5.0, ASTM_Total
G4	4	F42	CM		37	Fiber	3	0.01	300	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	4	F42	CM		38	Fiber	15	0.1	150	Chrysotile			ASTM_>=5.0, ASTM_Total
G4	4	F42	CM		39	Fiber	3.5	0.1	35	Chrysotile			ASTM_0.5-5.0, ASTM_Total
G4	4	F42	CM		40	Fiber	5	0.15	33.3	Chrysotile			ASTM_>=5.0, ASTM_Total
G4	4	F42	CM		41	Fiber	8	0.2	40	Chrysotile			ASTM_>=5.0, ASTM_Total
G4	4	F42	CM		42	Fiber	5	0.2	25	Chrysotile			ASTM_>=5.0, ASTM_Total
G4	4	F42	CM		43	Fiber	5.5	0.15	36.7	Chrysotile			ASTM_>=5.0, ASTM_Total
G4	4	F42	CM		44	Fiber	8	0.15	53.3	Chrysotile			ASTM_>=5.0, ASTM_Total
G4	4	F42	CM		45	Fiber	1	0.15	6.7	Chrysotile			ASTM_0.5-5.0, ASTM_Total
G4	4	F42	CM		46	Fiber	1.5	0.15	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	4	F42	CM		47	Fiber	3.5	0.1	35	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	4	F42	CM		48	Fiber	4.95	0.1	49.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	5	E42	CM		49	Matrix 1-0	1.25	0.5	2.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	5	E42	CMQ		50	Fiber	15	0.15	100	Chrysotile			ASTM_>=5.0, ASTM_Total
G5	5	E42	CM		51	Fiber	2.5	0.1	25	Chrysotile			ASTM_0.5-5.0, ASTM_Total
G5	5	E42	CM		52	Fiber	4.5	0.15	30	Chrysotile			ASTM_0.5-5.0, ASTM_Total
G5	5	E42	CM		53	Fiber	1	0.1	10	Chrysotile			ASTM_0.5-5.0, ASTM_Total
G5	5	E42	CM		54	Fiber	3.5	0.15	23.3	Chrysotile			ASTM_0.5-5.0, ASTM_Total
G5	5	E42	CM		1	Bundle	3.5	0.25	14	Chrysotile			ASTM_0.5-5.0, ASTM_Total
G5	5	E42	CM		2	Fiber	19	0.15	126.7	Chrysotile			ASTM_>=5.0, ASTM_Total
G5	5	E42	CM		3	Fiber	4	0.1	40	Chrysotile			ASTM_0.5-5.0, ASTM_Total
G5	5	E42	CM		4	Fiber	3	0.1	30	Chrysotile			ASTM_0.5-5.0, ASTM_Total
G5	5	E42	CM		5	Fiber	2.5	0.1	25	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	5	E42	CM		6	Fiber	3.5	0.1	35	Chrysotile			ASTM_0.5-5.0, ASTM_Total
G5	5	E42	CM		7	Fiber	3.85	0.1	38.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0

**ASTM D 6480-19 - Surface Wipes Raw Data -  
 Final Report**

**Job Number: 221076**      **SEA**  
**Client: Trinity Environmental**

**Ref. D6480-19**

**Report Number: 221076R01**

**Project Name: Asbestos Project- Dust Wipes 10-28-2022**

**Date Received: 10/28/2022**

**Lab/Cor Sample No: S2**

**Client Sample No: W2**

Gr	No.	Loc.	ID	Prim	Tot	Class	Length	Width	Aspect	Analyte	Elements	Comment	Count Categories
G5	5	E42	CM	8		Fiber	2.5	0.1	25	Chrysotile			ASTM_0.5-5.0, ASTM_Total
G5	5	E42	CM	9		Fiber	4	0.1	40	Chrysotile			ASTM_0.5-5.0, ASTM_Total
G5	5	E42	CM	10		Fiber	1	0.1	10	Chrysotile			ASTM_0.5-5.0, ASTM_Total
G5	5	E42	CM	11		Fiber	2.5	0.1	25	Chrysotile			ASTM_Total, ASTM_0.5- 5.0
G5	5	E42	CM	12		Matrix 7-1	13	3	4.3	Chrysotile			ASTM_>=5.0, ASTM_Total

**ASTM D 6480-19 - Surface Wipes Raw Data -  
 Final Report**

Job Number: 221076      SEA  
 Client: Trinity Environmental

Ref. D6480-19

Report Number: 221076R01  
 Date Received: 10/28/2022

Project Name: Asbestos Project- Dust Wipes 10-28-2022

Lab/Cor Sample No: S3  
 Client Sample No: W3

Gr	No.	Loc.	ID	Prim	Tot	Class	Length	Width	Aspect	Analyte	Elements	Comment	Count Categories
G7	1	H32	CDQ	1		Bundle	2.5	0.15	16.7	Chrysotile	Mg, Si		ASTM_Total, ASTM_0.5-5.0
						ItemType	ItemNum			Confirmed	Comment		
						Brightfield	J69485BF						
						Diffraction	J69485DF			SB 11/1/2022	0.53nm ROW SPACING		
						Spectra	J69485SP			SB 11/1/2022			
G7	1	H32	CM	2		Matrix 1-0	3.5	2	1.8	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	2	E41	CM	3		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	2	E41	CM	4		Bundle	1.25	0.25	5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	2	E41	CM	5		Fiber	1.25	0.1	12.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	2	E41	CM	6		Cluster 20-0	2	2	1	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	3	C52	CM	7		Fiber	7.5	0.1	75	Chrysotile			ASTM_Total, ASTM_>=5.0
G7	3	C52	CM	8		Bundle	1.25	0.15	8.3	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	3	C52	CM	9		Bundle	2.5	0.2	12.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	3	C52	CM	10		Fiber	0.75	0.1	7.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	3	C52	CM	11		Fiber	2.5	0.1	25	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	3	C52	CM	12		Fiber	4.5	0.1	45	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	3	C52	CM	13		Bundle	2.5	0.1	25	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	3	C52	CM	14		Fiber	22	0.15	146.7	Chrysotile			ASTM_Total, ASTM_>=5.0
G7	3	C52	CM	15		Fiber	2	0.15	13.3	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	3	C52	CD	16		Bundle	2	0.15	13.3	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	3	C52	CM	17		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	3	C52	CM	18		Fiber	7.5	0.1	75	Chrysotile			ASTM_Total, ASTM_>=5.0
G7	4	K62	CM	19		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	4	K62	CM	20		Fiber	4.5	0.1	45	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	4	K62	CM	21		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	4	K62	CMQ	22		Fiber	1.25	0.1	12.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	5	K54	CM	23		Fiber	0.75	0.1	7.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	5	K54	CM	24		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	5	K54	CD	25		Fiber	3.5	0.1	35	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	5	K54	CM	26		Fiber	1.5	0.1	15	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	5	K54	CM	27		Bundle	1.25	0.15	8.3	Chrysotile			ASTM_Total, ASTM_0.5-5.0

**ASTM D 6480-19 - Surface Wipes Raw Data -  
 Final Report**

Job Number: 221076      SEA  
 Client: Trinity Environmental

Ref. D6480-19

Report Number: 221076R01  
 Date Received: 10/28/2022

Project Name: Asbestos Project- Dust Wipes 10-28-2022

Lab/Cor Sample No: S3  
 Client Sample No: W3

Gr	No.	Loc.	ID	Prim	Tot	Class	Length	Width	Aspect	Analyte	Elements	Comment	Count Categories
G7	5	K54	CM	28		Bundle	2.5	0.2	12.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	5	K54	CM	29		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	6	B22	CD	30		Fiber	5	0.1	50	Chrysotile			ASTM_Total, ASTM_>=5.0
G8	6	B22	CM	31		Bundle	2.5	0.15	16.7	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	6	B22	CM	32		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	7	B23	CM	33		Fiber	1.25	0.1	12.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	7	B23	CM	34		Bundle	7	0.15	46.7	Chrysotile			ASTM_Total, ASTM_>=5.0
G8	7	B23	CM	35		Fiber	1.5	0.15	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	7	B23	CM	36		Fiber	3.5	0.1	35	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	7	B23	CM	37		Fiber	1.5	0.1	15	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	7	B23	CD	38		Matrix 1-0	3	2	1.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	7	B23	CM	39		Fiber	3.5	0.1	35	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	7	B23	CM	40		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	8	B24	CM	41		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	8	B24	CM	42		Fiber	2.5	0.1	25	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	8	B24	CM	43		Fiber	2.5	0.1	25	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	8	B24	CM	44		Fiber	4	0.1	40	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	8	B24	CM	45		Matrix 1-1	10	3	3.3	Chrysotile			ASTM_Total, ASTM_>=5.0
G8	8	B24	CM	46		Fiber	10.5	0.1	105	Chrysotile			ASTM_Total, ASTM_>=5.0
G8	9	C23	CM	47		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	9	C23	CM	48		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	9	C23	CM	49		Bundle	2	0.15	13.3	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	9	C23	CD	50		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	9	C23	CM	51		Fiber	1.5	0.1	15	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	10	A34	CM	52		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	10	A34	CM	53		Fiber	7.5	0.1	75	Chrysotile			ASTM_Total, ASTM_>=5.0
G8	10	A34	CM	54		Fiber	4.95	0.1	49.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0

**ASTM D 6480-19 - Surface Wipes Raw Data -  
 Final Report**

Job Number: 221076      SEA  
 Client: Trinity Environmental

Ref. D6480-19

Report Number: 221076R01

Project Name: Asbestos Project- Dust Wipes 10-28-2022

Date Received: 10/28/2022

Lab/Cor Sample No: S4  
 Client Sample No: W4

Gr	No.	Loc.	ID	Prim Tot	Class	Length	Width	Aspect	Analyte	Elements	Comment	Count Categories
G10	1	C54	CDQ	1	Fiber	5	0.15	33.3	Chrysotile	Mg, Si		ASTM_Total, ASTM_>=5.0
					ItemType		ItemNum			Confirmed	Comment	
					Brightfield		J69489BF					
					Diffraction		J69489DF			SB 11/1/2022	0.53nm ROW SPACING	
					Spectra		J69489BF			SB 11/1/2022		
G10	1	C54	CM	2	Fiber	25	0.2	125	Chrysotile			ASTM_Total, ASTM_>=5.0
G10	1	C54	CM	3	Fiber	15	0.1	150	Chrysotile			ASTM_Total, ASTM_>=5.0
G10	1	C54	CM	4	Fiber	14.5	0.1	145	Chrysotile			ASTM_Total, ASTM_>=5.0
G10	1	C54	CM	5	Fiber	15	0.1	150	Chrysotile			ASTM_Total, ASTM_>=5.0
G10	1	C54	CM	6	Bundle	1	0.1	10	Chrysotile		Fiber size classification used to group fibers during analysis.	ASTM_Total, ASTM_0.5-5.0
G10	1	C54	CM	7	Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G10	1	C54	CM	8	Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G10	1	C54	CM	9	Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G10	1	C54	CM	10	Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G10	1	C54	CM	11	Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G10	1	C54	CM	12	Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G10	1	C54	CM	13	Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G10	1	C54	CM	14	Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G10	1	C54	CM	15	Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G10	1	C54	CM	16	Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G10	1	C54	CM	17	Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G10	1	C54	CM	18	Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G10	1	C54	CM	19	Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G10	1	C54	CM	20	Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G10	1	C54	CM	21	Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G10	1	C54	CM	22	Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G10	1	C54	CM	23	Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G10	1	C54	CM	24	Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G10	1	C54	CM	25	Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G10	1	C54	CM	26	Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0

**ASTM D 6480-19 - Surface Wipes Raw Data -  
 Final Report**

**Job Number: 221076**      **SEA**  
**Client: Trinity Environmental**

**Ref. D6480-19**

**Report Number: 221076R01**

**Project Name: Asbestos Project- Dust Wipes 10-28-2022**

**Date Received: 10/28/2022**

**Lab/Cor Sample No: S4**  
**Client Sample No: W4**

Gr	No.	Loc.	ID	Prim	Tot	Class	Length	Width	Aspect	Analyte	Elements	Comment	Count Categories
G10	1	C54	CM	27		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G10	1	C54	CM	28		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G10	1	C54	CM	29		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G10	1	C54	CM	30		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G10	1	C54	CM	31		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G10	1	C54	CM	32		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G10	1	C54	CM	33		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G10	1	C54	CM	34		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G10	1	C54	CM	35		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G10	1	C54	CM	36		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G10	1	C54	CM	37		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G10	1	C54	CM	38		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G10	1	C54	CM	39		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G10	1	C54	CM	40		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G10	1	C54	CM	41		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G10	1	C54	CM	42		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G10	1	C54	CM	43		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G10	1	C54	CM	44		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G10	1	C54	CM	45		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G10	1	C54	CM	46		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G10	1	C54	CM	47		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G10	1	C54	CM	48		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G10	1	C54	CM	49		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G10	1	C54	CM	50		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G10	1	C54	CM	51		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G10	1	C54	CM	52		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G10	1	C54	CM	53		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G10	1	C54	CM	54		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G10	1	C54	CM	55		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0

**ASTM D 6480-19 - Surface Wipes Raw Data -  
 Final Report**

**Job Number: 221076**      **SEA**  
**Client: Trinity Environmental**

**Ref. D6480-19**

**Report Number: 221076R01**

**Project Name: Asbestos Project- Dust Wipes 10-28-2022**

**Date Received: 10/28/2022**

**Lab/Cor Sample No: S4**  
**Client Sample No: W4**

Gr	No.	Loc.	ID	Prim	Tot	Class	Length	Width	Aspect	Analyte	Elements	Comment	Count Categories
G10	1	C54	CM	56		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G10	1	C54	CM	57		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G10	1	C54	CM	58		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G10	1	C54	CM	59		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G10	1	C54	CM	60		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G10	1	C54	CM	61		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G10	1	C54	CM	62		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G10	1	C54	CM	63		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G10	1	C54	CM	64		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G10	1	C54	CM	65		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G10	1	C54	CM	66		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G10	1	C54	CM	67		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G10	1	C54	CM	68		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G10	1	C54	CM	69		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G10	1	C54	CM	70		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G10	1	C54	CM	71		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G10	1	C54	CM	72		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G10	1	C54	CM	73		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G10	1	C54	CM	74		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G10	1	C54	CM	75		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G10	1	C54	CM	76		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G10	1	C54	CM	77		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G10	1	C54	CM	78		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G10	1	C54	CM	79		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G10	1	C54	CM	80		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G10	1	C54	CM	81		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G10	1	C54	CM	82		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G10	1	C54	CM	83		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G10	1	C54	CM	84		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0

**ASTM D 6480-19 - Surface Wipes Raw Data -  
 Final Report**

Job Number: 221076      SEA  
 Client: Trinity Environmental

Ref. D6480-19

Report Number: 221076R01  
 Date Received: 10/28/2022

Project Name: Asbestos Project- Dust Wipes 10-28-2022

Lab/Cor Sample No: S4  
 Client Sample No: W4

Gr	No.	Loc.	ID	Prim	Tot	Class	Length	Width	Aspect	Analyte	Elements	Comment	Count Categories
G10	1	C54	CM	85		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G10	1	C54	CM	86		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G10	1	C54	CM	87		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G10	1	C54	CM	88		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G10	1	C54	CM	89		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G10	1	C54	CM	90		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G10	1	C54	CM	91		Bundle	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G10	1	C54	CM	92		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G10	1	C54	CM	93		Fiber	5.5	0.1	55	Chrysotile			ASTM_Total, ASTM_>=5.0
G10	1	C54	CM	94		Fiber	5.5	0.1	55	Chrysotile			ASTM_Total, ASTM_>=5.0
G10	1	C54	CM	95		Fiber	5.5	0.1	55	Chrysotile			ASTM_Total, ASTM_>=5.0
G10	1	C54	CM	96		Fiber	5.5	0.1	55	Chrysotile			ASTM_Total, ASTM_>=5.0
G10	1	C54	CM	97		Fiber	5.5	0.1	55	Chrysotile			ASTM_Total, ASTM_>=5.0
G10	1	C54	CM	98		Fiber	5.5	0.1	55	Chrysotile			ASTM_Total, ASTM_>=5.0
G10	1	C54	CM	99		Fiber	5.5	0.1	55	Chrysotile			ASTM_Total, ASTM_>=5.0
G10	1	C54	CM	100		Fiber	5.5	0.1	55	Chrysotile			ASTM_Total, ASTM_>=5.0
G10	1	C54	CM	101		Fiber	5.5	0.1	55	Chrysotile			ASTM_Total, ASTM_>=5.0
G10	1	C54	CM	102		Fiber	5.5	0.1	55	Chrysotile			ASTM_Total, ASTM_>=5.0
G10	1	C54	CM	103		Fiber	5.5	0.1	55	Chrysotile			ASTM_Total, ASTM_>=5.0
G10	1	C54	CM	104		Fiber	5.5	0.1	55	Chrysotile			ASTM_Total, ASTM_>=5.0
G10	1	C54	CM	105		Fiber	5.5	0.1	55	Chrysotile			ASTM_Total, ASTM_>=5.0
G10	1	C54	CM	106		Fiber	5.5	0.1	55	Chrysotile			ASTM_Total, ASTM_>=5.0
G10	1	C54	CM	107		Fiber	5.5	0.1	55	Chrysotile			ASTM_Total, ASTM_>=5.0
G10	1	C54	CM	108		Fiber	7	0.1	70	Chrysotile			ASTM_Total, ASTM_>=5.0
G10	1	C54	CM	109		Fiber	7	0.1	70	Chrysotile			ASTM_Total, ASTM_>=5.0
G10	1	C54	CM	110		Fiber	7	0.1	70	Chrysotile			ASTM_Total, ASTM_>=5.0
G10	1	C54	CM	111		Fiber	7	0.1	70	Chrysotile			ASTM_Total, ASTM_>=5.0
G10	1	C54	CM	112		Fiber	7	0.1	70	Chrysotile			ASTM_Total, ASTM_>=5.0
G10	1	C54	CM	113		Fiber	7	0.1	70	Chrysotile			ASTM_Total, ASTM_>=5.0
G10	1	C54	CM	114		Fiber	7	0.1	70	Chrysotile			ASTM_Total, ASTM_>=5.0
G10	1	C54	CM	115		Fiber	7	0.1	70	Chrysotile			ASTM_Total, ASTM_>=5.0
G10	1	C54	CM	116		Fiber	10	0.1	100	Chrysotile			ASTM_Total, ASTM_>=5.0
G10	1	C54	CM	117		Fiber	10	0.1	100	Chrysotile			ASTM_Total, ASTM_>=5.0
G10	1	C54	CM	118		Fiber	10	0.1	100	Chrysotile			ASTM_Total, ASTM_>=5.0
G10	1	C54	CM	119		Fiber	10	0.1	100	Chrysotile			ASTM_Total, ASTM_>=5.0
G10	1	C54	CM	120		Fiber	10	0.1	100	Chrysotile			ASTM_Total, ASTM_>=5.0

**ASTM D 6480-19 - Surface Wipes Raw Data -  
 Final Report**

Job Number: 221076      SEA  
 Client: Trinity Environmental

Ref. D6480-19

Report Number: 221076R01

Project Name: Asbestos Project- Dust Wipes 10-28-2022

Date Received: 10/28/2022

Lab/Cor Sample No: S5  
 Client Sample No: W5

Gr	No.	Loc.	ID	Prim	Tot	Class	Length	Width	Aspect	Analyte	Elements	Comment	Count Categories
G7	1	E44	CM	1		Fiber	7	0.1	70	Chrysotile			ASTM_Total, ASTM_>=5.0
G7	1	E44	CDQ	2		Fiber	2	0.15	13.3	Chrysotile	Mg, Si		ASTM_Total, ASTM_0.5-5.0
						ItemType	ItemNum		Confirmed	Comment			
						Brightfield	J69490BF						
						Diffraction	J69490DF		SB 11/1/2022	0.53nm ROW SPACING			
						Spectra	J69490SP		SB 11/1/2022				
G7	1	E44	CM	3		Fiber	5	0.1	50	Chrysotile			ASTM_Total, ASTM_>=5.0
G7	1	E44	CM	4		Fiber	4	0.1	40	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	2	F43	CM	5		Fiber	4.5	0.1	45	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	2	F43	CM	6		Fiber	3.5	0.1	35	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	2	F43	CM	7		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	2	F43	CM	8		Fiber	1	0.2	5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	3	F51	CM	9		Fiber	1	0.15	6.7	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	3	F51	CM	10		Fiber	10	0.15	66.7	Chrysotile			ASTM_Total, ASTM_>=5.0
G7	3	F51	CM	11		Fiber	8	0.1	80	Chrysotile			ASTM_Total, ASTM_>=5.0
G7	3	F51	CM	12		Fiber	11	0.1	110	Chrysotile			ASTM_Total, ASTM_>=5.0
G7	3	F51	CM	13		Fiber	8	0.1	80	Chrysotile			ASTM_Total, ASTM_>=5.0
G8	4	C34	CM	14		Fiber	1.5	0.1	15	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	4	C34	CM	15		Fiber	2.5	0.1	25	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	4	C34	CM	16		Fiber	1.5	0.1	15	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	4	C34	CM	17		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	4	C34	CM	18		Fiber	2.5	0.1	25	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	4	C34	CM	19		Fiber	0.8	0.1	8	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	4	C34	CM	20		Fiber	1.5	0.1	15	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	4	C34	CM	21		Fiber	1	0.2	5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	5	E33	CM	22		Fiber	1.5	0.1	15	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	5	E33	CM	23		Fiber	7.5	0.1	75	Chrysotile			ASTM_Total, ASTM_>=5.0
G8	5	E33	CM	24		Fiber	7.5	0.1	75	Chrysotile			ASTM_Total, ASTM_>=5.0

**ASTM D 6480-19 - Surface Wipes Raw Data -  
 Final Report**

Job Number: 221076      SEA  
 Client: Trinity Environmental

Ref. D6480-19

Report Number: 221076R01

Project Name: Asbestos Project- Dust Wipes 10-28-2022

Date Received: 10/28/2022

Lab/Cor Sample No: S6

Client Sample No: W6

Gr	No.	Loc.	ID	Prim	Tot	Class	Length	Width	Aspect	Analyte	Elements	Comment	Count Categories
G7	1	E44	CM	1		Fiber	2.5	0.1	25	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	2	F43	CDQ	2		Fiber	13	0.1	130	Chrysotile	Mg, Si		ASTM_Total, ASTM_>=5.0
						ItemType	ItemNum				Confirmed	Comment	
						Brightfield	J69491BF						
						Diffraction	J69491DF			SB	11/1/2022	0.53nm ROW SPACING	
						Spectra	J69491SP			SB	11/1/2022		
G7	2	F43	CM	3		Fiber	0.85	0.15	5.7	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	2	F43	CM	4		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	2	F43	CM	5		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	2	F43	CM	6		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	2	F43	CM	7		Fiber	0.85	0.1	8.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	3	F52	CM	8		Fiber	0.85	0.1	8.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	3	F52	CM	9		Fiber	3.5	0.1	35	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	3	F52	CM	10		Fiber	1.5	0.1	15	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	4	E42	CM	11		Fiber	7.5	0.1	75	Chrysotile			ASTM_Total, ASTM_>=5.0
G8	4	E42	CM	12		Fiber	2.5	0.1	25	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	4	E42	CM	13		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	4	E42	CM	14		Fiber	4	0.1	40	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	5	F41	CM	15		Bundle	1.5	0.15	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	5	F41	CM	16		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	5	F41	CM	17		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	5	F41	CM	18		Fiber	2.5	0.15	16.7	Chrysotile			ASTM_Total, ASTM_0.5-5.0

**ASTM D 6480-19 - Surface Wipes Raw Data -  
 Final Report**

Job Number: 221076      SEA  
 Client: Trinity Environmental

Ref. D6480-19

Report Number: 221076R01  
 Date Received: 10/28/2022

Project Name: Asbestos Project- Dust Wipes 10-28-2022

Lab/Cor Sample No: S7  
 Client Sample No: W7

Gr	No.	Loc.	ID	Prim	Tot	Class	Length	Width	Aspect	Analyte	Elements	Comment	Count Categories
G7	1	E44	CDQ	1		Fiber	10	0.1	100	Chrysotile	Mg, Si		ASTM_Total, ASTM_>=5.0
						ItemType		ItemNum			Confirmed	Comment	
						Brightfield		J69492BF					
						Diffraction		J69492DF			SB 11/1/2022	0.53nm ROW SPACING	
						Spectra		J69492SP			SB 11/1/2022		
G7	1	E44	CM	2		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	3		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	4		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	5		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	6		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	7		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	8		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	9		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	10		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	11		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	12		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	13		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	14		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	15		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	16		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	17		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	18		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	19		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	20		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	21		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	22		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	23		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	24		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	25		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	26		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	27		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0

**ASTM D 6480-19 - Surface Wipes Raw Data -  
 Final Report**

Job Number: 221076      SEA  
 Client: Trinity Environmental

Ref. D6480-19

Report Number: 221076R01

Project Name: Asbestos Project- Dust Wipes 10-28-2022

Date Received: 10/28/2022

Lab/Cor Sample No: S7

Client Sample No: W7

Gr	No.	Loc.	ID	Prim	Tot	Class	Length	Width	Aspect	Analyte	Elements	Comment	Count Categories
G7	1	E44	CM	28		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	29		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	30		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	31		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	32		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	33		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	34		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	35		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	36		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	37		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	38		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	39		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	40		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	41		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	42		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	43		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	44		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	45		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	46		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	47		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	48		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	49		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	50		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	51		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	52		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	53		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	54		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	55		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	56		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0

**ASTM D 6480-19 - Surface Wipes Raw Data -  
 Final Report**

**Job Number: 221076**      **SEA**  
**Client: Trinity Environmental**

**Ref. D6480-19**

**Report Number: 221076R01**

**Project Name: Asbestos Project- Dust Wipes 10-28-2022**

**Date Received: 10/28/2022**

**Lab/Cor Sample No: S7**  
**Client Sample No: W7**

Gr	No.	Loc.	ID	Prim	Tot	Class	Length	Width	Aspect	Analyte	Elements	Comment	Count Categories
G7	1	E44	CM	57		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	58		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	59		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	60		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	61		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	62		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	63		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	64		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	65		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	66		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	67		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	68		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	69		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	70		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	71		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	72		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	73		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	74		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	75		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	76		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	77		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	78		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	79		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	80		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	81		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	82		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	83		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	84		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	85		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0

**ASTM D 6480-19 - Surface Wipes Raw Data -  
 Final Report**

Job Number: 221076      SEA  
 Client: Trinity Environmental

Ref. D6480-19

Report Number: 221076R01  
 Date Received: 10/28/2022

Project Name: Asbestos Project- Dust Wipes 10-28-2022

Lab/Cor Sample No: S7  
 Client Sample No: W7

Gr	No.	Loc.	ID	Prim	Tot	Class	Length	Width	Aspect	Analyte	Elements	Comment	Count Categories
G7	1	E44	CM	86		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	87		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	88		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	89		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	90		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	91		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	92		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	93		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	94		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	95		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	96		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	97		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	98		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	99		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	100		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	101		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	102		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	103		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	104		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	105		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	106		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	107		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	108		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	109		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	110		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	111		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	112		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	113		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	114		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0

**ASTM D 6480-19 - Surface Wipes Raw Data -  
 Final Report**

**Job Number: 221076      SEA**  
**Client: Trinity Environmental**

**Ref. D6480-19**

**Report Number: 221076R01**

**Project Name: Asbestos Project- Dust Wipes 10-28-2022**

**Date Received: 10/28/2022**

**Lab/Cor Sample No: S7**  
**Client Sample No: W7**

Gr	No.	Loc.	ID	Prim	Tot	Class	Length	Width	Aspect	Analyte	Elements	Comment	Count Categories
G7	1	E44	CM		115	Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM		116	Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM		117	Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM		118	Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM		119	Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM		120	Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM		121	Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM		122	Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM		123	Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM		124	Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM		125	Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM		126	Fiber	4	0.1	40	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM		127	Fiber	4	0.1	40	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM		128	Fiber	4	0.1	40	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM		129	Fiber	4	0.1	40	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM		130	Fiber	4	0.1	40	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM		131	Fiber	4	0.1	40	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM		132	Fiber	4	0.1	40	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM		133	Fiber	4	0.1	40	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM		134	Fiber	4	0.1	40	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM		135	Fiber	4	0.1	40	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM		136	Fiber	4	0.1	40	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM		137	Fiber	4	0.1	40	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM		138	Fiber	4	0.1	40	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM		139	Fiber	4	0.1	40	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM		140	Fiber	4	0.1	40	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM		141	Fiber	4	0.1	40	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM		142	Fiber	4	0.1	40	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM		143	Fiber	4	0.1	40	Chrysotile			ASTM_Total, ASTM_0.5-5.0

**ASTM D 6480-19 - Surface Wipes Raw Data -  
 Final Report**

**Job Number: 221076**      **SEA**  
**Client: Trinity Environmental**

**Ref. D6480-19**

**Report Number: 221076R01**

**Project Name: Asbestos Project- Dust Wipes 10-28-2022**

**Date Received: 10/28/2022**

**Lab/Cor Sample No: S7**  
**Client Sample No: W7**

Gr	No.	Loc.	ID	Prim	Tot	Class	Length	Width	Aspect	Analyte	Elements	Comment	Count Categories
G7	1	E44	CM	144		Fiber	4	0.1	40	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	145		Fiber	4	0.1	40	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	146		Fiber	4	0.1	40	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	147		Fiber	4	0.1	40	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	148		Fiber	4	0.1	40	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	149		Fiber	4	0.1	40	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	150		Fiber	4	0.1	40	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	151		Fiber	4	0.1	40	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	152		Fiber	4	0.1	40	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	153		Fiber	4	0.1	40	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	154		Fiber	4	0.1	40	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	155		Fiber	4	0.1	40	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	156		Fiber	4	0.1	40	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	157		Fiber	4	0.1	40	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	158		Fiber	4	0.1	40	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	159		Fiber	4	0.1	40	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	160		Fiber	4	0.1	40	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	161		Fiber	4	0.1	40	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	162		Fiber	4	0.1	40	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	163		Fiber	4	0.1	40	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	164		Fiber	4	0.1	40	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	165		Fiber	4	0.1	40	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	166		Fiber	4	0.1	40	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	167		Fiber	4	0.1	40	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	168		Fiber	4	0.1	40	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	169		Fiber	4	0.1	40	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	170		Fiber	4	0.1	40	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	171		Fiber	4	0.1	40	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	172		Fiber	4	0.1	40	Chrysotile			ASTM_Total, ASTM_0.5-5.0

**ASTM D 6480-19 - Surface Wipes Raw Data -  
 Final Report**

Job Number: 221076      SEA  
 Client: Trinity Environmental

Ref. D6480-19

Report Number: 221076R01

Project Name: Asbestos Project- Dust Wipes 10-28-2022

Date Received: 10/28/2022

Lab/Cor Sample No: S7  
 Client Sample No: W7

Gr	No.	Loc.	ID	Prim	Tot	Class	Length	Width	Aspect	Analyte	Elements	Comment	Count Categories
G7	1	E44	CM		173	Fiber	4	0.1	40	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM		174	Fiber	4	0.1	40	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM		175	Fiber	4	0.1	40	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM		176	Fiber	4	0.1	40	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM		177	Fiber	4	0.1	40	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM		178	Fiber	4	0.1	40	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM		179	Fiber	4	0.1	40	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM		180	Fiber	4	0.1	40	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM		181	Fiber	4	0.1	40	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM		182	Fiber	4	0.1	40	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM		183	Fiber	4	0.1	40	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM		184	Fiber	4	0.1	40	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM		185	Fiber	4	0.1	40	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM		186	Fiber	4	0.1	40	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM		187	Fiber	4	0.1	40	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM		188	Fiber	4	0.1	40	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM		189	Fiber	4	0.1	40	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM		190	Fiber	4	0.1	40	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM		191	Fiber	4	0.1	40	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM		192	Fiber	4	0.1	40	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM		193	Fiber	4	0.1	40	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM		194	Fiber	4	0.1	40	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM		195	Fiber	4	0.1	40	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM		196	Fiber	4	0.1	40	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM		197	Fiber	4	0.1	40	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM		198	Fiber	4	0.1	40	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM		199	Fiber	5	0.1	50	Chrysotile			ASTM_Total, ASTM_>=5.0
G7	1	E44	CM		200	Fiber	5	0.1	50	Chrysotile			ASTM_>=5.0, ASTM_Total
G7	1	E44	CM		201	Fiber	5	0.1	50	Chrysotile			ASTM_>=5.0, ASTM_Total
G7	1	E44	CM		202	Fiber	5	0.1	50	Chrysotile			ASTM_>=5.0, ASTM_Total
G7	1	E44	CM		203	Fiber	5	0.1	50	Chrysotile			ASTM_>=5.0, ASTM_Total

**ASTM D 6480-19 - Surface Wipes Raw Data -  
 Final Report**

Job Number: 221076      SEA  
 Client: Trinity Environmental

Ref. D6480-19

Report Number: 221076R01  
 Date Received: 10/28/2022

Project Name: Asbestos Project- Dust Wipes 10-28-2022

Lab/Cor Sample No: S7  
 Client Sample No: W7

Gr	No.	Loc.	ID	Prim	Tot	Class	Length	Width	Aspect	Analyte	Elements	Comment	Count Categories
G7	1	E44	CM	204		Fiber	5	0.1	50	Chrysotile			ASTM_>=5.0, ASTM_Total
G7	1	E44	CM	205		Fiber	5	0.1	50	Chrysotile			ASTM_Total, ASTM_>=5.0
G7	1	E44	CM	206		Fiber	5	0.1	50	Chrysotile			ASTM_Total, ASTM_>=5.0
G7	1	E44	CM	207		Fiber	5	0.1	50	Chrysotile			ASTM_Total, ASTM_>=5.0
G7	1	E44	CM	208		Fiber	5	0.1	50	Chrysotile			ASTM_>=5.0, ASTM_Total
G7	1	E44	CM	209		Fiber	5	0.1	50	Chrysotile			ASTM_Total, ASTM_>=5.0
G7	1	E44	CM	210		Fiber	5	0.1	50	Chrysotile			ASTM_>=5.0, ASTM_Total
G7	1	E44	CM	211		Fiber	5	0.1	50	Chrysotile			ASTM_>=5.0, ASTM_Total
G7	1	E44	CM	212		Fiber	5	0.1	50	Chrysotile			ASTM_>=5.0, ASTM_Total
G7	1	E44	CM	213		Fiber	5	0.1	50	Chrysotile			ASTM_>=5.0, ASTM_Total
G7	1	E44	CM	214		Fiber	5	0.1	50	Chrysotile			ASTM_>=5.0, ASTM_Total
G7	1	E44	CM	215		Fiber	5	0.1	50	Chrysotile			ASTM_>=5.0, ASTM_Total
G7	1	E44	CM	216		Fiber	5	0.1	50	Chrysotile			ASTM_>=5.0, ASTM_Total
G7	1	E44	CM	217		Fiber	5	0.1	50	Chrysotile			ASTM_>=5.0, ASTM_Total
G7	1	E44	CM	218		Fiber	5	0.1	50	Chrysotile			ASTM_>=5.0, ASTM_Total
G7	1	E44	CM	219		Fiber	5	0.1	50	Chrysotile			ASTM_>=5.0, ASTM_Total
G7	1	E44	CM	220		Fiber	5	0.1	50	Chrysotile			ASTM_>=5.0, ASTM_Total
G7	1	E44	CM	221		Fiber	5	0.1	50	Chrysotile			ASTM_>=5.0, ASTM_Total
G7	1	E44	CM	222		Fiber	5	0.1	50	Chrysotile			ASTM_>=5.0, ASTM_Total
G7	1	E44	CM	223		Fiber	5	0.1	50	Chrysotile			ASTM_>=5.0, ASTM_Total
G7	1	E44	CM	224		Fiber	5	0.1	50	Chrysotile			ASTM_>=5.0, ASTM_Total
G7	1	E44	CM	225		Fiber	5	0.1	50	Chrysotile			ASTM_>=5.0, ASTM_Total
G7	1	E44	CM	226		Fiber	5	0.1	50	Chrysotile			ASTM_>=5.0, ASTM_Total
G7	1	E44	CM	227		Fiber	5	0.1	50	Chrysotile			ASTM_>=5.0, ASTM_Total
G7	1	E44	CM	228		Fiber	5	0.1	50	Chrysotile			ASTM_>=5.0, ASTM_Total
G7	1	E44	CM	229		Fiber	5	0.1	50	Chrysotile			ASTM_>=5.0, ASTM_Total
G7	1	E44	CM	230		Fiber	5	0.1	50	Chrysotile			ASTM_>=5.0, ASTM_Total
G7	1	E44	CM	231		Fiber	5	0.1	50	Chrysotile			ASTM_>=5.0, ASTM_Total
G7	1	E44	CM	232		Fiber	5	0.1	50	Chrysotile			ASTM_>=5.0, ASTM_Total
G7	1	E44	CM	233		Fiber	5	0.1	50	Chrysotile			ASTM_>=5.0, ASTM_Total
G7	1	E44	CM	234		Fiber	7	0.1	70	Chrysotile			ASTM_>=5.0, ASTM_Total
G7	1	E44	CM	235		Fiber	7	0.1	70	Chrysotile			ASTM_>=5.0, ASTM_Total
G7	1	E44	CM	236		Fiber	7	0.1	70	Chrysotile			ASTM_>=5.0, ASTM_Total
G7	1	E44	CM	237		Fiber	7	0.1	70	Chrysotile			ASTM_>=5.0, ASTM_Total
G7	1	E44	CM	238		Fiber	7	0.1	70	Chrysotile			ASTM_>=5.0, ASTM_Total
G7	1	E44	CM	239		Fiber	7	0.1	70	Chrysotile			ASTM_>=5.0, ASTM_Total
G7	1	E44	CM	240		Fiber	7	0.1	70	Chrysotile			ASTM_>=5.0, ASTM_Total
G7	1	E44	CM	241		Fiber	7	0.1	70	Chrysotile			ASTM_>=5.0, ASTM_Total
G7	1	E44	CM	242		Fiber	7	0.1	70	Chrysotile			ASTM_>=5.0, ASTM_Total
G7	1	E44	CM	243		Fiber	7	0.1	70	Chrysotile			ASTM_>=5.0, ASTM_Total
G7	1	E44	CM	244		Fiber	7	0.1	70	Chrysotile			ASTM_>=5.0, ASTM_Total
G7	1	E44	CM	245		Fiber	7	0.1	70	Chrysotile			ASTM_>=5.0, ASTM_Total

**ASTM D 6480-19 - Surface Wipes Raw Data -  
 Final Report**

Job Number: 221076      SEA  
 Client: Trinity Environmental

Ref. D6480-19

Report Number: 221076R01  
 Date Received: 10/28/2022

Project Name: Asbestos Project- Dust Wipes 10-28-2022

Lab/Cor Sample No: S7  
 Client Sample No: W7

Gr	No.	Loc.	ID	Prim	Tot	Class	Length	Width	Aspect	Analyte	Elements	Comment	Count Categories
G7	1	E44	CM	246		Fiber	7	0.1	70	Chrysotile			ASTM_>=5.0, ASTM_Total
G7	1	E44	CM	247		Fiber	7	0.1	70	Chrysotile			ASTM_>=5.0, ASTM_Total
G7	1	E44	CM	248		Fiber	7	0.1	70	Chrysotile			ASTM_>=5.0, ASTM_Total
G7	1	E44	CM	249		Fiber	7	0.1	70	Chrysotile			ASTM_>=5.0, ASTM_Total
G7	1	E44	CM	250		Fiber	7	0.1	70	Chrysotile			ASTM_>=5.0, ASTM_Total
G7	1	E44	CM	251		Fiber	7	0.1	70	Chrysotile			ASTM_>=5.0, ASTM_Total
G7	1	E44	CM	252		Fiber	7	0.1	70	Chrysotile			ASTM_>=5.0, ASTM_Total
G7	1	E44	CM	253		Fiber	7	0.1	70	Chrysotile			ASTM_>=5.0, ASTM_Total
G7	1	E44	CM	254		Fiber	7	0.1	70	Chrysotile			ASTM_>=5.0, ASTM_Total
G7	1	E44	CM	255		Fiber	7	0.1	70	Chrysotile			ASTM_>=5.0, ASTM_Total
G7	1	E44	CM	256		Fiber	7	0.1	70	Chrysotile			ASTM_>=5.0, ASTM_Total
G7	1	E44	CM	257		Fiber	7	0.1	70	Chrysotile			ASTM_>=5.0, ASTM_Total
G7	1	E44	CM	258		Fiber	7	0.1	70	Chrysotile			ASTM_>=5.0, ASTM_Total
G7	1	E44	CM	259		Fiber	7	0.1	70	Chrysotile			ASTM_>=5.0, ASTM_Total
G7	1	E44	CM	260		Fiber	7	0.1	70	Chrysotile			ASTM_>=5.0, ASTM_Total
G7	1	E44	CM	261		Fiber	7	0.1	70	Chrysotile			ASTM_>=5.0, ASTM_Total
G7	1	E44	CM	262		Fiber	7	0.1	70	Chrysotile			ASTM_>=5.0, ASTM_Total
G7	1	E44	CM	263		Fiber	7	0.1	70	Chrysotile			ASTM_>=5.0, ASTM_Total
G7	1	E44	CM	264		Fiber	7	0.1	70	Chrysotile			ASTM_>=5.0, ASTM_Total
G7	1	E44	CM	265		Fiber	7	0.1	70	Chrysotile			ASTM_>=5.0, ASTM_Total
G7	1	E44	CM	266		Fiber	7	0.1	70	Chrysotile			ASTM_>=5.0, ASTM_Total
G7	1	E44	CM	267		Fiber	7	0.1	70	Chrysotile			ASTM_>=5.0, ASTM_Total
G7	1	E44	CM	268		Fiber	7	0.1	70	Chrysotile			ASTM_>=5.0, ASTM_Total
G7	1	E44	CM	269		Fiber	7	0.1	70	Chrysotile			ASTM_>=5.0, ASTM_Total
G7	1	E44	CM	270		Fiber	7	0.1	70	Chrysotile			ASTM_>=5.0, ASTM_Total
G7	1	E44	CM	271		Fiber	10	0.1	100	Chrysotile			ASTM_>=5.0, ASTM_Total
G7	1	E44	CM	272		Fiber	10	0.1	100	Chrysotile			ASTM_>=5.0, ASTM_Total
G7	1	E44	CM	273		Fiber	10	0.1	100	Chrysotile			ASTM_>=5.0, ASTM_Total
G7	1	E44	CM	274		Fiber	10	0.1	100	Chrysotile			ASTM_>=5.0, ASTM_Total
G7	1	E44	CM	275		Fiber	10	0.1	100	Chrysotile			ASTM_>=5.0, ASTM_Total
G7	1	E44	CM	276		Fiber	10	0.1	100	Chrysotile			ASTM_>=5.0, ASTM_Total
G7	1	E44	CM	277		Fiber	10	0.1	100	Chrysotile			ASTM_>=5.0, ASTM_Total
G7	1	E44	CM	278		Fiber	10	0.1	100	Chrysotile			ASTM_>=5.0, ASTM_Total
G7	1	E44	CM	279		Fiber	10	0.1	100	Chrysotile			ASTM_>=5.0, ASTM_Total

**ASTM D 6480-19 - Surface Wipes Raw Data -  
 Final Report**

Job Number: 221076      SEA  
 Client: Trinity Environmental

Ref. D6480-19

Report Number: 221076R01  
 Date Received: 10/28/2022

Project Name: Asbestos Project- Dust Wipes 10-28-2022

Lab/Cor Sample No: S8  
 Client Sample No: W8

Gr	No.	Loc.	ID	Prim	Tot	Class	Length	Width	Aspect	Analyte	Elements	Comment	Count Categories
G4	1	F42	CDQ	1		Fiber	2	0.15	13.3	Chrysotile	Mg, Si		ASTM_Total, ASTM_0.5-5.0
						ItemType	ItemNum				Confirmed	Comment	
						Brightfield	J69493BF						
						Diffraction	J69493DF				SB 11/1/2022	0.53nm ROW SPACING	
						Spectra	J69493SP				SB 11/1/2022		
G4	1	F42	CM	2		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	F42	CM	3		Fiber	1.5	0.1	15	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	F42	CM	4		Fiber	2.5	0.1	25	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	F42	CM	5		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	F42	CM	6		Fiber	1.5	0.1	15	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	F42	CM	7		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	G41	CM	8		Fiber	4.5	0.1	45	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	G41	CM	9		Fiber	3.5	0.1	35	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	G41	CM	10		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	3	G33	CM	11		Fiber	2.5	0.1	25	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	3	G33	CM	12		Fiber	12.5	0.1	125	Chrysotile			ASTM_>=5.0, ASTM_Total
G4	3	G33	CM	13		Fiber	2.5	0.1	25	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	3	G33	CM	14		Fiber	10	0.1	100	Chrysotile			ASTM_>=5.0, ASTM_Total
G4	3	G33	CM	15		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	3	G33	CM	16		Fiber	2.25	0.1	22.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	4	F44	CM	17		Fiber	16	0.1	160	Chrysotile			ASTM_>=5.0, ASTM_Total
G4	4	F44	CM	18		Fiber	6	0.1	60	Chrysotile			ASTM_>=5.0, ASTM_Total
G4	4	F44	CM	19		Fiber	7.5	0.1	75	Chrysotile			ASTM_>=5.0, ASTM_Total
G4	4	F44	CM	20		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	4	F44	CM	21		Fiber	2.5	0.1	25	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	4	F44	CM	22		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	5	G43	CM	23		Fiber	6	0.1	60	Chrysotile			ASTM_>=5.0, ASTM_Total
G4	5	G43	CM	24		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	5	G43	CM	25		Fiber	2.5	0.1	25	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	5	G43	CM	26		Fiber	6	0.1	60	Chrysotile			ASTM_>=5.0, ASTM_Total
G4	5	G43	CM	27		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	5	G43	CM	28		Fiber	2.5	0.1	25	Chrysotile			ASTM_Total, ASTM_0.5-5.0

**ASTM D 6480-19 - Surface Wipes Raw Data -  
 Final Report**

Job Number: 221076      SEA  
 Client: Trinity Environmental

Ref. D6480-19

Report Number: 221076R01  
 Date Received: 10/28/2022

Project Name: Asbestos Project- Dust Wipes 10-28-2022

Lab/Cor Sample No: S8  
 Client Sample No: W8

Gr	No.	Loc.	ID	Prim	Tot	Class	Length	Width	Aspect	Analyte	Elements	Comment	Count Categories
G4	5	G43	CM	29		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	5	G43	CM	30		Fiber	1.5	0.1	15	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	5	G43	CM	31		Fiber	23	0.1	230	Chrysotile			ASTM_>=5.0, ASTM_Total
G4	5	G43	CM	32		Bundle	1.5	0.1	15	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	6	C34	CM	33		Fiber	1.5	0.1	15	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	6	C34	CM	34		Bundle	3	0.2	15	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	6	C34	CM	35		Fiber	14	0.1	140	Chrysotile			ASTM_>=5.0, ASTM_Total
G5	6	C34	CM	36		Fiber	3	0.15	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	7	C42	CM	37		Fiber	4	0.1	40	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	7	C42	CM	38		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	7	C42	CM	39		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	7	C42	CM	40		Fiber	3.75	0.1	37.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	7	C42	CM	41		Fiber	3	0.15	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	8	E41	CM	42		Fiber	5.5	0.1	55	Chrysotile			ASTM_>=5.0, ASTM_Total
G5	8	E41	CM	43		Fiber	4	0.1	40	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	8	E41	CM	44		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	8	E41	CM	45		Bundle	3.5	0.2	17.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	9	E52	CM	46		Fiber	2.5	0.1	25	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	9	E52	CM	47		Fiber	0.75	0.1	7.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	9	E52	CM	48		Fiber	6.5	0.15	43.3	Chrysotile			ASTM_>=5.0, ASTM_Total
G5	9	E52	CM	49		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	9	E52	CM	50		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	9	E52	CM	51		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	10	F51	CM	52		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	10	F51	CM	53		Fiber	3.5	0.1	35	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	10	F51	CM	54		Bundle	35	0.2	175	Chrysotile			ASTM_>=5.0, ASTM_Total
G5	10	F51	CM	55		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	10	F51	CM	56		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	10	F51	CM	57		Bundle	2.5	0.25	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	10	F51	CM	58		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0

**ASTM D 6480-19 - Surface Wipes Raw Data -  
 Final Report**

Job Number: 221076      SEA  
 Client: Trinity Environmental

Ref. D6480-19

Report Number: 221076R01  
 Date Received: 10/28/2022

Project Name: Asbestos Project- Dust Wipes 10-28-2022

Lab/Cor Sample No: S9  
 Client Sample No: W9

Gr	No.	Loc.	ID	Prim	Tot	Class	Length	Width	Aspect	Analyte	Elements	Comment	Count Categories
G4	1	E44	CM	1		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	E44	CMQ	2		Fiber	4	0.1	40	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	E44	CM	3		Fiber	2.5	0.1	25	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	E44	CDQ	4		Fiber	4.25	0.1	42.5	Chrysotile	Mg, Si		ASTM_Total, ASTM_0.5-5.0
						ItemType	ItemNum				Confirmed	Comment	
						Brightfield	J69495BF						
						Diffraction	J69495DF				SB 11/2/2022	0.53nm ROW SPACING	
						Spectra	J69495SP				SB 11/2/2022		
G4	1	E44	CM	5		Fiber	3	0.065	46.2	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	E44	CM	6		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	E44	CM	7		Fiber	4.5	0.1	45	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	E44	CM	8		Fiber	5.25	0.1	52.5	Chrysotile			ASTM_>=5.0, ASTM_Total
G4	1	E44	CM	9		Fiber	7.5	0.1	75	Chrysotile			ASTM_>=5.0, ASTM_Total
G4	1	E44	CM	10		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	E44	CD	11		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	E44	CM	12		Fiber	1.5	0.1	15	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	E44	CM	13		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	E44	CM	14		Fiber	7	0.1	70	Chrysotile			ASTM_>=5.0, ASTM_Total
G4	1	E44	CM	15		Fiber	5.5	0.1	55	Chrysotile			ASTM_>=5.0, ASTM_Total
G4	1	E44	CM	16		Fiber	1.5	0.1	15	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	F43	CM	17		Fiber	7.5	0.1	75	Chrysotile			ASTM_>=5.0, ASTM_Total
G4	2	F43	CM	18		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	F43	CM	19		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	F43	CM	20		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	F43	CD	21		Fiber	8.5	0.1	85	Chrysotile			ASTM_>=5.0, ASTM_Total
G4	2	F43	CM	22		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	F43	CM	23		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	F43	CM	24		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	F43	CM	25		Fiber	2.5	0.15	16.7	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	F43	CM	26		Fiber	3.5	0.1	35	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	F43	CM	27		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	F43	CM	28		Fiber	7	0.1	70	Chrysotile			ASTM_>=5.0, ASTM_Total
G4	2	F43	CM	29		Fiber	0.85	0.1	8.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0

**ASTM D 6480-19 - Surface Wipes Raw Data -  
 Final Report**

Job Number: 221076      SEA  
 Client: Trinity Environmental

Ref. D6480-19

Report Number: 221076R01

Project Name: Asbestos Project- Dust Wipes 10-28-2022

Date Received: 10/28/2022

Lab/Cor Sample No: S9  
 Client Sample No: W9

Gr	No.	Loc.	ID	Prim	Tot	Class	Length	Width	Aspect	Analyte	Elements	Comment	Count Categories
G4	2	F43	CM		30	Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	F43	CD		31	Fiber	2.75	0.1	27.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	F43	CM		32	Fiber	0.85	0.1	8.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	F43	CM		33	Fiber	75	0.2	375	Chrysotile			ASTM_>=5.0, ASTM_Total
G4	2	F43	CM		34	Bundle	4	0.25	16	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	F43	CM		35	Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	F43	CM		36	Fiber	3.5	0.1	35	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	3	F51	CM		37	Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	3	F51	CM		38	Fiber	2.5	0.1	25	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	3	F51	CM		39	Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	3	F51	CM		40	Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	3	F51	CD		41	Fiber	2.5	0.1	25	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	3	F51	CM		42	Fiber	25	0.1	250	Chrysotile			ASTM_>=5.0, ASTM_Total
G4	3	F51	CM		43	Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	3	F51	CM		44	Fiber	1	0.15	6.7	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	3	F51	CM		45	Fiber	1.25	0.1	12.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	3	F51	CM		46	Fiber	4.95	0.15	33	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	3	F51	CM		47	Fiber	12	0.3	40	Chrysotile			ASTM_>=5.0, ASTM_Total
G4	3	F51	CM		48	Fiber	0.85	0.1	8.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	3	F51	CM		49	Fiber	3.5	0.2	17.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	3	F51	CM		50	Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	3	F51	CD		51	Fiber	2.5	0.1	25	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	3	F51	CM		52	Fiber	0.9	0.15	6	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	3	F51	CM		53	Fiber	1	0.15	6.7	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	3	F51	CM		54	Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	3	F51	CM		55	Fiber	4	0.1	40	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	3	F51	CM		56	Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	3	F51	CMQ		57	Fiber	27.5	0.15	183.3	Chrysotile			ASTM_>=5.0, ASTM_Total
G4	3	F51	CM		58	Fiber	2	0.15	13.3	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	3	F51	CM		59	Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	F44	CM		60	Fiber	25	0.15	166.7	Chrysotile			ASTM_>=5.0, ASTM_Total

**ASTM D 6480-19 - Surface Wipes Raw Data -  
 Final Report**

Job Number: 221076      SEA  
 Client: Trinity Environmental

Ref. D6480-19

Report Number: 221076R01

Project Name: Asbestos Project- Dust Wipes 10-28-2022

Date Received: 10/28/2022

Lab/Cor Sample No: S9  
 Client Sample No: W9

Gr	No.	Loc.	ID	Prim	Tot	Class	Length	Width	Aspect	Analyte	Elements	Comment	Count Categories
G5	4	F44	CMQ	61		Fiber	11	0.1	110	Chrysotile			ASTM_>=5.0, ASTM_Total
G5	4	F44	CM	62		Matrix 1-0	3	0.8	3.8	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	F44	CM	63		Fiber	3.75	0.1	37.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	F44	CM	64		Fiber	4	0.15	26.7	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	F44	CM	65		Fiber	6.5	0.1	65	Chrysotile			ASTM_>=5.0, ASTM_Total
G5	4	F44	CM	66		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	F44	CM	67		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	F44	CMQ	68		Bundle	3	0.25	12	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	F44	CM	69		Fiber	0.85	0.15	5.7	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	F44	CM	70		Fiber	4.5	0.15	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	F44	CM	71		Fiber	7.5	0.15	50	Chrysotile			ASTM_>=5.0, ASTM_Total
G5	4	F44	CM	72		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	F44	CM	73		Fiber	2.5	0.1	25	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	F44	CM	74		Fiber	13	0.15	86.7	Chrysotile			ASTM_>=5.0, ASTM_Total
G5	5	G43	CM	75		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	5	G43	CM	76		Fiber	2.5	0.1	25	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	5	G43	CM	77		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	5	G43	CM	78		Bundle	2.25	0.25	9	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	5	G43	CM	79		Fiber	3.5	0.1	35	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	5	G43	CM	80		Fiber	2.5	0.1	25	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	5	G43	CMQ	81		Fiber	3	0.15	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	5	G43	CM	82		Fiber	3.5	0.1	35	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	5	G43	CM	83		Bundle	2	0.15	13.3	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	5	G43	CM	84		Fiber	1	0.15	6.7	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	5	G43	CM	85		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	5	G43	CM	86		Fiber	5	0.1	50	Chrysotile			ASTM_>=5.0, ASTM_Total
G5	5	G43	CM	87		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	5	G43	CM	88		Bundle	2.5	0.1	25	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	5	G43	CM	89		Matrix 1-0	6	8	0.8	Chrysotile			ASTM_>=5.0, ASTM_Total
G5	5	G43	CM	90		Fiber	3.5	0.1	35	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	5	G43	CD	91		Fiber	7.5	0.1	75	Chrysotile			ASTM_>=5.0, ASTM_Total

**ASTM D 6480-19 - Surface Wipes Raw Data -  
 Final Report**

Job Number: 221076      SEA  
 Client: Trinity Environmental

Ref. D6480-19

Report Number: 221076R01

Project Name: Asbestos Project- Dust Wipes 10-28-2022

Date Received: 10/28/2022

Lab/Cor Sample No: S9  
 Client Sample No: W9

Gr	No.	Loc.	ID	Prim	Tot	Class	Length	Width	Aspect	Analyte	Elements	Comment	Count Categories
G5	5	G43	CM	92		Fiber	3.5	0.1	35	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	5	G43	CM	93		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	5	G43	CM	94		Fiber	1.5	0.1	15	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	6	H54	CM	95		Fiber	7.5	0.15	50	Chrysotile			ASTM_>=5.0, ASTM_Total
G5	6	H54	CMQ	96		Fiber	4	0.15	26.7	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	6	H54	CM	97		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	6	H54	CM	98		Fiber	2.5	0.1	25	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	6	H54	CM	99		Fiber	1.5	0.1	15	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	6	H54	CM	100		Fiber	1.5	0.1	15	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	6	H54	CM	101		Fiber	4.5	0.1	45	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	6	H54	CM	102		Fiber	1.25	0.1	12.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	6	H54	CMQ	103		Bundle	3	0.2	15	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	6	H54	CM	104		Fiber	26	0.15	173.3	Chrysotile			ASTM_>=5.0, ASTM_Total
G5	6	H54	CM	105		Matrix 1-0	2	1	2	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	6	H54	CM	106		Fiber	4.5	0.15	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	6	H54	CM	107		Fiber	15	0.1	150	Chrysotile			ASTM_>=5.0, ASTM_Total
G5	6	H54	CM	108		Fiber	1.5	0.1	15	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	6	H54	CM	109		Fiber	4.5	0.1	45	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	6	H54	CM	110		Fiber	4	0.1	40	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	6	H54	CM	111		Fiber	4.5	0.1	45	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	6	H54	CM	112		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	6	H54	CMQ	113		Matrix 1-0	3	2.5	1.2	Chrysotile			ASTM_Total, ASTM_0.5-5.0

**ASTM D 6480-19 - Surface Wipes Raw Data -  
 Final Report**

Job Number: 221076      SEA  
 Client: Trinity Environmental

Ref. D6480-19

Report Number: 221076R01  
 Date Received: 10/28/2022

Project Name: Asbestos Project- Dust Wipes 10-28-2022

Lab/Cor Sample No: S10  
 Client Sample No: W10

Gr	No.	Loc.	ID	Prim	Tot	Class	Length	Width	Aspect	Analyte	Elements	Comment	Count Categories
G4	1	F34	CDQ	1		Fiber	4	0.1	40	Chrysotile	Mg, Si		ASTM_Total, ASTM_0.5-5.0
						ItemType	ItemNum			Confirmed	Comment		
						Brightfield	J69497BF						
						Diffraction	J69497DF			SB	11/2/2022	0.53nm ROW SPACING	
						Spectra	J69497SP			SB	11/2/2022		
G4	1	F34	CM	2		Matrix 1-0	3	2	1.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	F34	CM	3		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	F34	CM	4		Fiber	1	0.08	12.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	F34	CM	5		Fiber	4	0.1	40	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	F34	CM	6		Fiber	4	0.1	40	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	F34	CM	7		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	F34	CM	8		Fiber	7	0.1	70	Chrysotile			ASTM_>=5.0, ASTM_Total
G4	1	F34	CM	9		Fiber	1.5	0.1	15	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	F34	CM	10		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	F34	CM	11		Bundle	8	0.2	40	Chrysotile			ASTM_>=5.0, ASTM_Total
G4	1	F34	CM	12		Fiber	3.5	0.1	35	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	F34	CD	13		Bundle	4.9	0.2	24.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	F34	CM	14		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	F34	CM	15		Fiber	2.5	0.1	25	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	F34	CM	16		Fiber	2	0.08	25	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	F34	CM	17		Fiber	1	0.15	6.7	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	F34	CM	18		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	F34	CM	19		Fiber	3.5	0.1	35	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	F34	CM	20		Fiber	2.5	0.1	25	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	F34	CM	21		Fiber	2.5	0.1	25	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	F34	CD	22		Fiber	6.5	0.1	65	Chrysotile			ASTM_>=5.0, ASTM_Total
G4	1	F34	CM	23		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	F34	CM	24		Matrix 1-0	2	2	1	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	F34	CM	25		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	F34	CM	26		Fiber	7	0.1	70	Chrysotile			ASTM_Total, ASTM_>=5.0
G4	1	F34	CM	27		Fiber	0.8	0.1	8	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	G33	CM	28		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0

**ASTM D 6480-19 - Surface Wipes Raw Data -  
 Final Report**

Job Number: 221076      SEA  
 Client: Trinity Environmental

Ref. D6480-19

Report Number: 221076R01  
 Date Received: 10/28/2022

Project Name: Asbestos Project- Dust Wipes 10-28-2022

Lab/Cor Sample No: S10  
 Client Sample No: W10

Gr	No.	Loc.	ID	Prim	Tot	Class	Length	Width	Aspect	Analyte	Elements	Comment	Count Categories
G4	2	G33	CM	29		Fiber	2.5	0.1	25	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	G33	CM	30		Bundle	1	0.2	5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	G33	CM	31		Bundle	4	0.5	8	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	G33	CM	32		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	G33	CM	33		Bundle	2.5	0.15	16.7	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	G33	CM	34		Fiber	0.85	0.1	8.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	G33	CM	35		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	G33	CM	36		Fiber	13.5	0.1	135	Chrysotile			ASTM_Total, ASTM_>=5.0
G4	2	G33	CM	37		Bundle	3.5	0.2	17.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	G33	CM	38		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	G33	CD	39		Fiber	1.5	0.1	15	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	G33	CM	40		Cluster 4-0	3.5	2	1.8	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	G33	CM	41		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	G33	CM	42		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	G33	CM	43		Fiber	2.5	0.1	25	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	G33	CM	44		Matrix 1-0	4	2	2	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	G33	CM	45		Fiber	0.85	0.1	8.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	G33	CM	46		Bundle	2	0.2	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	G33	CM	47		Bundle	1	0.15	6.7	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	G33	CM	48		Fiber	5.5	0.1	55	Chrysotile			ASTM_Total, ASTM_>=5.0
G4	2	G33	CM	49		Fiber	1.5	0.1	15	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	G33	CM	50		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	G33	CMQ	51		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	G33	CM	52		Matrix 1-0	3	1.5	2	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	G33	CM	53		Fiber	5.1	0.1	51	Chrysotile			ASTM_>=5.0, ASTM_Total
G4	2	G33	CM	54		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	G33	CM	55		Matrix 1-0	5	3.5	1.4	Chrysotile			ASTM_>=5.0, ASTM_Total
G4	2	G33	CM	56		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	G33	CM	57		Bundle	4	0.15	26.7	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	3	E44	CM	58		Matrix 1-0	2.5	0.5	5	Chrysotile			ASTM_Total, ASTM_0.5-5.0

**ASTM D 6480-19 - Surface Wipes Raw Data -  
 Final Report**

Job Number: 221076      SEA  
 Client: Trinity Environmental

Ref. D6480-19

Report Number: 221076R01

Project Name: Asbestos Project- Dust Wipes 10-28-2022

Date Received: 10/28/2022

Lab/Cor Sample No: S10  
 Client Sample No: W10

Gr	No.	Loc.	ID	Prim	Tot	Class	Length	Width	Aspect	Analyte	Elements	Comment	Count Categories
G5	3	E44	CM		59	Bundle	2	0.4	5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	3	E44	CM		60	Bundle	8	2	4	Chrysotile			ASTM_Total, ASTM_>=5.0
G5	3	E44	CM		61	Bundle	9	2	4.5	Chrysotile			ASTM_Total, ASTM_>=5.0
G5	3	E44	CM		62	Fiber	1.25	0.1	12.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	3	E44	CM		63	Fiber	4.5	0.1	45	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	3	E44	CM		64	Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	3	E44	CM		65	Fiber	5.5	0.1	55	Chrysotile			ASTM_>=5.0, ASTM_Total
G5	3	E44	CM		66	Fiber	1	0.15	6.7	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	3	E44	CM		67	Fiber	0.65	0.1	6.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	3	E44	CM		68	Fiber	0.55	0.1	5.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	3	E44	CM		69	Bundle	7	0.25	28	Chrysotile			ASTM_Total, ASTM_>=5.0
G5	3	E44	CM		70	Fiber	14	0.1	140	Chrysotile			ASTM_Total, ASTM_>=5.0
G5	3	E44	CM		71	Matrix 2-0	2.5	2	1.2	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	3	E44	CM		72	Bundle	2.5	0.25	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	3	E44	CM		73	Matrix 1-0	4.5	4	1.1	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	3	E44	CM		74	Matrix 1-0	2.5	2	1.2	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	3	E44	CD		75	Fiber	2.5	0.1	25	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	3	E44	CM		76	Fiber	4	0.1	40	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	3	E44	CM		77	Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	3	E44	CM		78	Fiber	3.5	0.1	35	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	3	E44	CM		79	Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	3	E44	CM		80	Fiber	0.85	0.1	8.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	F43	CD		81	Fiber	7	0.1	70	Chrysotile			ASTM_>=5.0, ASTM_Total
G5	4	F43	CM		82	Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	F43	CM		83	Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	F43	CM		84	Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	F43	CM		85	Matrix 1-0	2	0.5	4	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	F43	CM		86	Fiber	4.5	0.1	45	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	F43	CM		87	Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	F43	CM		88	Fiber	0.8	0.1	8	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	F43	CM		89	Bundle	3	0.2	15	Chrysotile			ASTM_Total, ASTM_0.5-5.0

**ASTM D 6480-19 - Surface Wipes Raw Data -  
 Final Report**

Job Number: 221076      SEA  
 Client: Trinity Environmental

Ref. D6480-19

Report Number: 221076R01  
 Date Received: 10/28/2022

Project Name: Asbestos Project- Dust Wipes 10-28-2022

Lab/Cor Sample No: S10  
 Client Sample No: W10

Gr	No.	Loc.	ID	Prim	Tot	Class	Length	Width	Aspect	Analyte	Elements	Comment	Count Categories
G5	4	F43	CM	90		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	F43	CM	91		Fiber	4	0.1	40	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	F43	CM	92		Fiber	2.5	0.1	25	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	F43	CM	93		Bundle	7.5	1	7.5	Chrysotile			ASTM_Total, ASTM_>=5.0
G5	4	F43	CM	94		Fiber	1.25	0.08	15.6	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	F43	CM	95		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	F43	CM	96		Fiber	7	0.1	70	Chrysotile			ASTM_Total, ASTM_>=5.0
G5	4	F43	CM	97		Fiber	2.5	0.1	25	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	F43	CM	98		Fiber	4.5	0.1	45	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	F43	CM	99		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	F43	CM	100		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	F43	CM	101		Fiber	2.5	0.1	25	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	F43	CM	102		Fiber	6	0.1	60	Chrysotile			ASTM_Total, ASTM_>=5.0
G5	4	F43	CM	103		Fiber	2.5	0.1	25	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	F43	CM	104		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	F43	CM	105		Fiber	1	0.08	12.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	F43	CM	106		Fiber	1.25	0.08	15.6	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	F43	CM	107		Fiber	4	0.1	40	Chrysotile			ASTM_Total, ASTM_0.5-5.0

**ASTM D 6480-19 - Surface Wipes Raw Data -  
 Final Report**

Job Number: 221076      SEA  
 Client: Trinity Environmental

Ref. D6480-19

Report Number: 221076R01  
 Date Received: 10/28/2022

Project Name: Asbestos Project- Dust Wipes 10-28-2022

Lab/Cor Sample No: S11  
 Client Sample No: W11

Gr	No.	Loc.	ID	Prim	Tot	Class	Length	Width	Aspect	Analyte	Elements	Comment	Count Categories
G4	1	G34	CDQ	1		Fiber	2.5	0.1	25	Chrysotile	Mg, Si		ASTM_Total, ASTM_0.5-5.0
						ItemType	ItemNum			Confirmed	Comment		
						Brightfield	J69498BF						
						Diffraction	J69498DF			SB 11/2/2022	0.53nm ROW SPACING		
						Spectra	J69498SP			SB 11/2/2022			
G4	1	G34	CM	2		Fiber	0.55	0.1	5.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	G34	CM	3		Fiber	5	0.1	50	Chrysotile			ASTM_Total, ASTM_>=5.0
G4	1	G34	CM	4		Bundle	1.25	0.15	8.3	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	G34	CM	5		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	G34	CM	6		Fiber	10	0.1	100	Chrysotile			ASTM_Total, ASTM_>=5.0
G4	1	G34	CM	7		Bundle	1.5	0.2	7.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	G34	CM	8		Fiber	3.5	0.1	35	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	G34	CM	9		Fiber	0.55	0.1	5.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	G34	CM	10		Fiber	2.5	0.08	31.2	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	G34	CM	11		Fiber	1	0.15	6.7	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	G34	CM	12		Fiber	3.5	0.1	35	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	H33	CM	13		Fiber	1	0.15	6.7	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	H33	CM	14		Bundle	2	0.2	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	H33	CM	15		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	H33	CM	16		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	H33	CD	17		Fiber	4	0.1	40	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	3	H41	CM	18		Fiber	2.5	0.1	25	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	3	H41	CM	19		Fiber	1.5	0.1	15	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	3	H41	CM	20		Bundle	1.25	0.15	8.3	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	3	H41	CM	21		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	C42	CM	22		Bundle	1	0.15	6.7	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	C42	CM	23		Fiber	1.5	0.1	15	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	C42	CM	24		Fiber	11	0.1	110	Chrysotile			ASTM_Total, ASTM_>=5.0
G5	4	C42	CM	25		Fiber	0.55	0.1	5.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	C42	CM	26		Fiber	0.55	0.1	5.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	C42	CM	27		Bundle	1.5	0.15	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	C42	CM	28		Fiber	5.5	0.1	55	Chrysotile			ASTM_Total, ASTM_>=5.0

**ASTM D 6480-19 - Surface Wipes Raw Data -  
 Final Report**

Job Number: 221076      SEA  
 Client: Trinity Environmental

Ref. D6480-19

Report Number: 221076R01  
 Date Received: 10/28/2022

Project Name: Asbestos Project- Dust Wipes 10-28-2022

Lab/Cor Sample No: S11  
 Client Sample No: W11

Gr	No.	Loc.	ID	Prim	Tot	Class	Length	Width	Aspect	Analyte	Elements	Comment	Count Categories
G5	4	C42	CM	29		Matrix 1-0	25	0.5	50	Chrysotile			ASTM_Total, ASTM_>=5.0
G5	4	C42	CM	30		Fiber	1.25	0.1	12.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	5	E41	CM	31		Bundle	1.5	0.15	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	5	E41	CM	32		Fiber	3.5	0.1	35	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	5	E41	CM	33		Fiber	1.5	0.1	15	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	5	E41	CM	34		Fiber	2	0.15	13.3	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	5	E41	CM	35		Fiber	7.5	0.1	75	Chrysotile			ASTM_Total, ASTM_>=5.0
G5	5	E41	CM	36		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	5	E41	CM	37		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	5	E41	CM	38		Fiber	0.55	0.1	5.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	5	E41	CM	39		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	5	E41	CM	40		Fiber	0.55	0.1	5.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	5	E41	CM	41		Fiber	1.5	0.1	15	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	5	E41	CM	42		Fiber	2.5	0.1	25	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	5	E41	CM	43		Fiber	0.65	0.1	6.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0

**ASTM D 6480-19 - Surface Wipes Raw Data -  
Final Report**

Job Number: 221076      SEA  
Client: Trinity Environmental

Ref. D6480-19

Report Number: 221076R01

Project Name: Asbestos Project- Dust Wipes 10-28-2022

Date Received: 10/28/2022

Lab/Cor Sample No: S12  
Client Sample No: W12

Gr	No.	Loc.	ID	Prim	Tot	Class	Length	Width	Aspect	Analyte	Elements	Comment	Count Categories
G4	1	F44	CM	1		Fiber	2.5	0.1	25	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	F44	CM	2		Fiber	18	0.1	180	Chrysotile			ASTM_Total, ASTM_>=5.0
G4	1	F44	CM	3		Fiber	5	0.15	33.3	Chrysotile			ASTM_Total, ASTM_>=5.0
G4	1	F44	CM	4		Fiber	3.5	0.1	35	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	F44	CM	5		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	G43	CM	6		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	G43	CDQ	7		Fiber	2	0.1	20	Chrysotile	Mg, Si		ASTM_Total, ASTM_0.5-5.0
						ItemType	ItemNum		Confirmed	Comment			
						Brightfield	J69499BF						
						Diffraction	J69499DF		SB 11/2/2022	0.53nm ROW SPACING			
						Spectra	J69499SP		SB 11/2/2022				
G4	2	G43	CM	8		Fiber	4.5	0.1	45	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	G43	CM	9		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	3	G51	CM	10		Fiber	1	0.08	12.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	3	G51	CM	11		Fiber	2	0.15	13.3	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	3	G51	CM	12		Fiber	4	0.15	26.7	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	3	G51	CM	13		Fiber	0.55	0.1	5.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	3	G51	CM	14		Fiber	3.5	0.1	35	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	3	G51	CM	15		Fiber	12	0.1	120	Chrysotile			ASTM_Total, ASTM_>=5.0
G4	3	G51	CM	16		Matrix 1-0	4	2.5	1.6	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	3	G51	CM	17		Fiber	2.5	0.1	25	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	3	G51	CM	18		Bundle	7.5	0.15	50	Chrysotile			ASTM_Total, ASTM_>=5.0
G4	3	G51	CM	19		Fiber	0.55	0.1	5.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	3	G51	CM	20		Fiber	4	0.1	40	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	F42	CM	21		Bundle	1.5	0.2	7.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	F42	CM	22		Bundle	0.85	0.1	8.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	F42	CM	23		Fiber	1.5	0.1	15	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	F42	CM	24		Fiber	1.5	0.1	15	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	F42	CM	25		Fiber	1	0.08	12.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	F42	CM	26		Fiber	0.55	0.1	5.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	F42	CM	27		Fiber	3.5	0.1	35	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	F42	CM	28		Fiber	0.55	0.1	5.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0

**ASTM D 6480-19 - Surface Wipes Raw Data -  
 Final Report**

Job Number: 221076      SEA  
 Client: Trinity Environmental

Ref. D6480-19

Report Number: 221076R01

Project Name: Asbestos Project- Dust Wipes 10-28-2022

Date Received: 10/28/2022

Lab/Cor Sample No: S12  
 Client Sample No: W12

Gr	No.	Loc.	ID	Prim Tot	Class	Length	Width	Aspect	Analyte	Elements	Comment	Count Categories
G5	4	F42	CM	29	Fiber	10	0.25	40	Chrysotile			ASTM_Total, ASTM_>=5.0
G5	4	F42	CM	30	Fiber	0.55	0.1	5.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	F42	CM	31	Fiber	0.65	0.1	6.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	F42	CM	32	Fiber	3.25	0.1	32.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	5	G41	CM	33	Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	5	G41	CM	34	Fiber	4.5	0.1	45	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	5	G41	CM	35	Fiber	1	0.08	12.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	5	G41	CM	36	Fiber	6	0.1	60	Chrysotile			ASTM_Total, ASTM_>=5.0
G5	5	G41	CM	37	Fiber	1.25	0.1	12.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0

**ASTM D 6480-19 - Surface Wipes Raw Data -  
Final Report**

Job Number: 221076      SEA  
Client: Trinity Environmental

Ref. D6480-19

Report Number: 221076R01

Project Name: Asbestos Project- Dust Wipes 10-28-2022

Date Received: 10/28/2022

Lab/Cor Sample No: S13  
Client Sample No: W13

Gr	No.	Loc.	ID	Prim	Tot	Class	Length	Width	Aspect	Analyte	Elements	Comment	Count Categories
G4	1	F42	CM	1		Matrix 1-0	5	2.5	2	Chrysotile			ASTM_Total, ASTM_>=5.0
G4	1	F42	CM	2		Fiber	0.75	0.1	7.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	F42	CDQ	3		Fiber	2.5	0.1	25	Chrysotile	Mg, Si		ASTM_Total, ASTM_0.5-5.0
						ItemType	ItemNum				Confirmed	Comment	
						Brightfield	J69500BF						
						Diffraction	J69500DF				SB 11/2/2022	0.53nm ROW SPACING	
						Spectra	J69500SP				SB 11/2/2022		
G4	1	F42	CM	4		Fiber	2	0.15	13.3	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	F42	CM	5		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	F42	CM	6		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	F42	CM	7		Fiber	10	0.1	100	Chrysotile			ASTM_Total, ASTM_>=5.0
G4	1	F42	CM	8		Bundle	1	0.2	5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	F42	CM	9		Fiber	1.5	0.1	15	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	F42	CM	10		Bundle	2	0.15	13.3	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	G41	CM	11		Matrix 1-0	2	1.5	1.3	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	G41	CM	12		Fiber	23	0.1	230	Chrysotile			ASTM_>=5.0, ASTM_Total
G4	2	G41	CM	13		Fiber	1	0.15	6.7	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	G41	CM	14		Fiber	0.65	0.1	6.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	G41	CM	15		Fiber	2.5	0.1	25	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	G41	CM	16		Fiber	4	0.1	40	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	G41	CM	17		Fiber	8	0.1	80	Chrysotile			ASTM_Total, ASTM_>=5.0
G4	2	G41	CM	18		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	G41	CM	19		Fiber	1	0.08	12.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	G41	CM	20		Fiber	3.5	0.1	35	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	G41	CM	21		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	G41	CM	22		Bundle	2	0.2	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	G41	CM	23		Bundle	1	0.2	5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	3	G33	CM	24		Fiber	1.25	0.1	12.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	3	G33	CM	25		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	3	G33	CM	26		Bundle	1	0.15	6.7	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	3	G33	CM	27		Fiber	4	0.1	40	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	3	G33	CM	28		Fiber	2	0.08	25	Chrysotile			ASTM_Total, ASTM_0.5-5.0

**ASTM D 6480-19 - Surface Wipes Raw Data -  
 Final Report**

Job Number: 221076      SEA  
 Client: Trinity Environmental

Ref. D6480-19

Report Number: 221076R01  
 Date Received: 10/28/2022

Project Name: Asbestos Project- Dust Wipes 10-28-2022

Lab/Cor Sample No: S13  
 Client Sample No: W13

Gr	No.	Loc.	ID	Prim	Tot	Class	Length	Width	Aspect	Analyte	Elements	Comment	Count Categories
G4	3	G33	CM	29		Bundle	12.5	0.15	83.3	Chrysotile			ASTM_Total, ASTM_>=5.0
G4	3	G33	CM	30		Fiber	35	0.1	350	Chrysotile			ASTM_Total, ASTM_>=5.0
G4	3	G33	CM	31		Fiber	1	0.15	6.7	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	3	G33	CM	32		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	3	G33	CM	33		Matrix 1-1	13	5	2.6	Chrysotile			ASTM_Total, ASTM_>=5.0
G4	3	G33	CM	34		Fiber	125	0.1	1250	Chrysotile			ASTM_Total, ASTM_>=5.0
G4	3	G33	CM	35		Fiber	1	0.08	12.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	3	G33	CM	36		Fiber	2.5	0.15	16.7	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	3	G33	CM	37		Bundle	1	0.15	6.7	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	3	G33	CM	38		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	F44	CM	39		Fiber	1	0.15	6.7	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	F44	CM	40		Fiber	10.5	0.1	105	Chrysotile			ASTM_>=5.0, ASTM_Total
G5	4	F44	CM	41		Fiber	2.5	0.1	25	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	F44	CM	42		Fiber	4.5	0.1	45	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	F44	CM	43		Bundle	5	0.25	20	Chrysotile			ASTM_>=5.0, ASTM_Total
G5	4	F44	CM	44		Matrix 1-0	3	2.5	1.2	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	5	G43	CM	45		Fiber	2.25	0.08	28.1	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	5	G43	CM	46		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	5	G43	CM	47		Bundle	4	0.2	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	5	G43	CM	48		Bundle	3	1.5	2	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	5	G43	CM	49		Fiber	25	0.08	312.5	Chrysotile			ASTM_>=5.0, ASTM_Total
G5	5	G43	CM	50		Matrix 2-0	35	2.5	14	Chrysotile			ASTM_>=5.0, ASTM_Total
G5	5	G43	CM	51		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0

**ASTM D 6480-19 - Surface Wipes Raw Data -  
Final Report**

Job Number: 221076      SEA  
Client: Trinity Environmental

Ref. D6480-19

Report Number: 221076R01  
Date Received: 10/28/2022

Project Name: Asbestos Project- Dust Wipes 10-28-2022

Lab/Cor Sample No: S14  
Client Sample No: W14

Gr	No.	Loc.	ID	Prim	Tot	Class	Length	Width	Aspect	Analyte	Elements	Comment	Count Categories
G7	1	C32	CDQ	1		Fiber	16.5	0.1	165	Chrysotile	Mg, Si		ASTM_>=5.0, ASTM_Total
						ItemType		ItemNum			Confirmed	Comment	
						Spectra		J69501SP			KM	11/2/2022	
						Diffraction		J69501DF			KM	11/2/2022	0.53nm ROW SPACING
						Brightfield		J69501BF					
G7	1	C32	CM	2		Fiber	0.9	0.1	9	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	C32	NAS	3		Bundle	1.7	0.22	7.7	Mg-Hornblende	Mg, Al, Si, Ca, Fe	High Al	ASTMD_Other
G7	1	C32	CD	4		Fiber	16	0.08	200	Chrysotile			ASTM_>=5.0, ASTM_Total
G7	1	C32	CM	5		Matrix 1-0	8.5	6	1.4	Chrysotile			ASTM_>=5.0, ASTM_Total
G7	1	C32	CM	6		Matrix 1-0	2.8	0.9	3.1	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	C32	CM	7		Fiber	5.2	0.1	52	Chrysotile			ASTM_>=5.0, ASTM_Total
G7	1	C32	CM	8		Fiber	2.1	0.1	21	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	C32	CM	9		Matrix 2-2	9	6.5	1.4	Chrysotile			ASTM_>=5.0, ASTM_Total
G7	2	E33	CM	10		Matrix 1-0	2.5	2	1.2	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	2	E33	CM	11		Fiber	14	0.1	140	Chrysotile			ASTM_>=5.0, ASTM_Total
G7	2	E33	CM	12		Fiber	3.5	0.08	43.8	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	2	E33	CD	13		Fiber	5.5	0.11	50	Chrysotile			ASTM_>=5.0, ASTM_Total
G7	2	E33	CM	14		Fiber	1.7	0.1	17	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	3	F41	CM	15		Fiber	3.2	0.1	32	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	3	F41	CM	16		Matrix 1-0	5.2	1.2	4.3	Chrysotile			ASTM_>=5.0, ASTM_Total
G7	3	F41	CM	17		Matrix 1-0	5.3	1.5	3.5	Chrysotile			ASTM_>=5.0, ASTM_Total
G7	3	F41	CD	18		Fiber	10.2	0.1	102	Chrysotile			ASTM_>=5.0, ASTM_Total
G7	3	F41	CM	19		Matrix 1-0	4.8	0.9	5.3	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	3	F41	CM	20		Fiber	4.2	0.06	70	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	3	F41	CM	21		Fiber	0.7	0.08	8.8	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	3	F41	CM	22		Cluster 6-0	1.9	0.85	2.2	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	3	F41	CD	23		Bundle	7.3	0.4	18.2	Chrysotile			ASTM_>=5.0, ASTM_Total
G8	4	E34	CD	24		Bundle	34	1.3	26.2	Chrysotile			ASTM_>=5.0, ASTM_Total
G8	4	E34	CM	25		Matrix 1-0	6.5	4.5	1.4	Chrysotile			ASTM_>=5.0, ASTM_Total
G8	4	E34	CM	26		Fiber	8.8	0.08	110	Chrysotile			ASTM_>=5.0, ASTM_Total
G8	4	E34	CM	27		Matrix 1-0	2.5	1.1	2.3	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	4	E34	CM	28		Fiber	1.1	0.05	22	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	4	E34	CD	29		Fiber	7.1	0.1	71	Chrysotile			ASTM_>=5.0, ASTM_Total
G8	4	E34	CM	30		Fiber	1.7	0.1	17	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	4	E34	CM	31		Matrix 1-0	6.5	1.2	5.4	Chrysotile			ASTM_>=5.0, ASTM_Total

**ASTM D 6480-19 - Surface Wipes Raw Data -  
 Final Report**

**Job Number: 221076**      **SEA**  
**Client: Trinity Environmental**

**Ref. D6480-19**

**Report Number: 221076R01**

**Project Name: Asbestos Project- Dust Wipes 10-28-2022**

**Date Received: 10/28/2022**

**Lab/Cor Sample No: S14**  
**Client Sample No: W14**

Gr	No.	Loc.	ID	Prim	Tot	Class	Length	Width	Aspect	Analyte	Elements	Comment	Count Categories
G8	4	E34	CM	32		Fiber	1.7	0.05	34	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	5	F41	CM	33		Fiber	2.2	0.08	27.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	5	F41	CM	34		Fiber	4.6	0.1	46	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	5	F41	CM	35		Matrix 1-0	3.8	2.5	1.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	5	F41	CM	36		Fiber	1.2	0.08	15	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	5	F41	CM	37		Bundle	8.2	0.11	74.5	Chrysotile			ASTM_>=5.0, ASTM_Total
G8	5	F41	CD	38		Matrix 1-1	12	1.2	10	Chrysotile			ASTM_>=5.0, ASTM_Total
G8	5	F41	CD	39		Fiber	1.1	0.11	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	5	F41	CM	40		Matrix 1-0	4.8	4	1.2	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	5	F41	CD	41		Matrix 4-1	6.8	4	1.7	Chrysotile			ASTM_>=5.0, ASTM_Total

**ASTM D 6480-19 - Surface Wipes Raw Data -  
 Final Report**

Job Number: 221076      SEA  
 Client: Trinity Environmental

Ref. D6480-19

Report Number: 221076R01  
 Date Received: 10/28/2022

Project Name: Asbestos Project- Dust Wipes 10-28-2022

Lab/Cor Sample No: S15  
 Client Sample No: W15

Gr	No.	Loc.	ID	Prim	Tot	Class	Length	Width	Aspect	Analyte	Elements	Comment	Count Categories
G7	1	C34	CD	1		Fiber	1.2	0.11	10.9	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	C34	CM	2		Matrix 2-1	8.2	3.5	2.3	Chrysotile			ASTM_>=5.0, ASTM_Total
G7	1	C34	CM	3		Matrix 1-1	13.2	5.5	2.4	Chrysotile			ASTM_>=5.0, ASTM_Total
G7	1	C34	CM	4		Fiber	1.7	0.08	21.3	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	C34	CD	5		Bundle	1.85	0.24	7.7	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	2	E33	CDQ	6		Fiber	1.7	0.1	17	Chrysotile	Mg, Si		ASTM_Total, ASTM_0.5-5.0
						ItemType	ItemNum		Confirmed	Comment			
						Spectra	J69502SP		KM	11/2/2022			
						Diffraction	J69502DF		KM	11/2/2022    0.53nm ROW SPACING			
						Brightfield	J69502BF						
G7	2	E33	CD	7		Bundle	1.2	0.19	6.3	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	2	E33	CM	8		Fiber	0.6	0.03	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	2	E33	CM	9		Fiber	0.7	0.1	7	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	3	E42	CM	10		Fiber	0.9	0.08	11.2	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	3	E42	CM	11		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	3	E42	CM	12		Fiber	3.1	0.1	31	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	3	E42	CM	13		Matrix 1-1	9.5	1.5	6.3	Chrysotile			ASTM_>=5.0, ASTM_Total
G7	3	E42	CM	14		Fiber	1.5	0.07	21.4	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	4	G34	CM	15		Matrix 1-0	8	6	1.3	Chrysotile			ASTM_>=5.0, ASTM_Total
G8	4	G34	CM	16		Matrix 1-1	9	4	2.2	Chrysotile			ASTM_>=5.0, ASTM_Total
G8	4	G34	CM	17		Fiber	4	0.1	40	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	4	G34	CM	18		Bundle	3.9	0.6	6.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	4	G34	CM	19		Fiber	1.2	0.08	15	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	4	G34	CM	20		Matrix 1-1	9	1.5	6	Chrysotile			ASTM_>=5.0, ASTM_Total
G8	4	G34	CM	21		Matrix 1-0	3	0.8	3.8	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	4	G34	CM	22		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	4	G34	CM	23		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	4	G34	CM	24		Matrix 1-0	3	1.5	2	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	5	H42	CM	25		Matrix 1-0	3	1	3	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	5	H42	CM	26		Matrix 1-0	3.3	0.6	5.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	5	H42	CM	27		Fiber	6.8	0.11	61.8	Chrysotile			ASTM_>=5.0, ASTM_Total
G8	5	H42	CM	28		Fiber	0.5	0.08	6.2	Chrysotile			ASTM_Total, ASTM_0.5-5.0

**ASTM D 6480-19 - Surface Wipes Raw Data -  
Final Report**

Job Number: 221076      SEA  
Client: Trinity Environmental

Ref. D6480-19

Report Number: 221076R01  
Date Received: 10/28/2022

Project Name: Asbestos Project- Dust Wipes 10-28-2022

Lab/Cor Sample No: S16  
Client Sample No: W16

Gr	No.	Loc.	ID	Prim	Tot	Class	Length	Width	Aspect	Analyte	Elements	Comment	Count Categories
G7	1	E31	CDQ	1		Fiber	7.5	0.1	75	Chrysotile	Mg, Si		ASTM_>=5.0, ASTM_Total
						ItemType		ItemNum			Confirmed	Comment	
						Spectra		J69503SP			KM	11/2/2022	
						Diffraction		J69503DF			KM	11/2/2022	0.53nm ROW SPACING
						Brightfield		J69503BF					
G7	1	E31	CM	2		Matrix 3-2	9.5	3	3.2	Chrysotile			ASTM_>=5.0, ASTM_Total
G7	1	E31	CM	3		Fiber	0.65	0.08	8.1	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E31	CM	4		Fiber	1.7	0.1	17	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E31	CM	5		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E31	CM	6		Fiber	13.2	0.08	165	Chrysotile			ASTM_Total, ASTM_>=5.0
G7	1	E31	CD	7		Fiber	3.1	0.11	28.2	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E31	CM	8		Fiber	1	0.06	16.7	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E31	CM	9		Fiber	3.5	0.06	58.3	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E31	CM	10		Fiber	8	0.1	80	Chrysotile			ASTM_Total, ASTM_>=5.0
G7	1	E31	CM	11		Fiber	1.6	0.05	32	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	2	E34	CM	12		Fiber	4.9	0.05	98	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	2	E34	CM	13		Fiber	2.7	0.11	24.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	2	E34	CM	14		Fiber	1.2	0.1	12	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	2	E34	CM	15		Fiber	3.8	0.05	76	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	2	E34	CM	16		Fiber	2	0.08	25	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	2	E34	CM	17		Matrix 1-0	4.5	3.2	1.4	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	2	E34	CM	18		Matrix 1-0	3	1.2	2.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	2	E34	CM	19		Matrix 1-0	5.5	2	2.8	Chrysotile			ASTM_>=5.0, ASTM_Total
G7	2	E34	CM	20		Fiber	9.5	0.1	95	Chrysotile			ASTM_>=5.0, ASTM_Total
G7	2	E34	CM	21		Fiber	0.7	0.08	8.8	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	2	E34	CM	22		Fiber	2.8	0.1	28	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	3	F43	CM	23		Matrix 1-1	5.8	1.2	4.8	Chrysotile			ASTM_>=5.0, ASTM_Total
G7	3	F43	CD	24		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	3	F43	CM	25		Fiber	1.3	0.05	26	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	3	F43	CM	26		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	3	F43	CM	27		Fiber	1.3	0.1	13	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	3	F43	CM	28		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	3	F43	CD	29		Fiber	1.1	0.1	11	Chrysotile			ASTM_Total, ASTM_0.5-5.0

**ASTM D 6480-19 - Surface Wipes Raw Data -  
Final Report**

Job Number: 221076      SEA  
Client: Trinity Environmental

Ref. D6480-19

Report Number: 221076R01

Project Name: Asbestos Project- Dust Wipes 10-28-2022

Date Received: 10/28/2022

Lab/Cor Sample No: S16

Client Sample No: W16

Gr	No.	Loc.	ID	Prim	Tot	Class	Length	Width	Aspect	Analyte	Elements	Comment	Count Categories
G7	3	F43	CM	30		Fiber	1.6	0.1	16	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	3	F43	CM	31		Fiber	0.68	0.05	13.6	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	3	F43	CM	32		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	3	F43	CM	33		Bundle	3	0.23	13	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	3	F43	CM	34		Matrix 1-0	6.2	3	2.1	Chrysotile			ASTM_>=5.0, ASTM_Total
G7	3	F43	CM	35		Fiber	3.1	0.1	31	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	3	F43	CM	36		Fiber	0.8	0.11	7.3	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	3	F43	CM	37		Fiber	3	0.08	37.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	4	E34	CD	38		Fiber	4	0.1	40	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	4	E34	CM	39		Fiber	1.7	0.1	17	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	4	E34	CM	40		Fiber	4.1	0.1	41	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	4	E34	CM	41		Fiber	4	0.1	40	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	4	E34	CM	42		Fiber	1.5	0.1	15	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	4	E34	CM	43		Fiber	3	0.18	16.7	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	4	E34	CM	44		Fiber	3.85	0.1	38.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	4	E34	CM	45		Fiber	4.1	0.1	41	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	4	E34	CM	46		Fiber	5.1	0.1	51	Chrysotile			ASTM_>=5.0, ASTM_Total
G8	4	E34	CM	47		Fiber	1.7	0.05	34	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	4	E34	CM	48		Fiber	2.5	0.1	25	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	4	E34	CM	49		Fiber	4	0.1	40	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	4	E34	CM	50		Bundle	3	0.2	15	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	4	E34	CM	51		Bundle	7	0.2	35	Chrysotile			ASTM_>=5.0, ASTM_Total
G8	5	F41	CD	52		Bundle	27	0.8	33.8	Chrysotile			ASTM_>=5.0, ASTM_Total
G8	5	F41	CM	53		Fiber	0.8	0.08	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	5	F41	CM	54		Matrix 1-0	2	0.8	2.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	5	F41	CM	55		Fiber	9.8	0.08	122.5	Chrysotile			ASTM_>=5.0, ASTM_Total
G8	5	F41	CM	56		Fiber	0.8	0.06	13.3	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	5	F41	CM	57		Matrix 1-1	6	2.5	2.4	Chrysotile			ASTM_Total, ASTM_>=5.0
G8	5	F41	CM	58		Fiber	3	0.08	37.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	5	F41	CM	59		Fiber	3.5	0.1	35	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	5	F41	CM	60		Fiber	2.6	0.08	32.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0

**ASTM D 6480-19 - Surface Wipes Raw Data -  
 Final Report**

**Job Number: 221076**      **SEA**  
**Client: Trinity Environmental**

**Ref. D6480-19**

**Report Number: 221076R01**

**Project Name: Asbestos Project- Dust Wipes 10-28-2022**

**Date Received: 10/28/2022**

**Lab/Cor Sample No: S16**

**Client Sample No: W16**

Gr	No.	Loc.	ID	Prim Tot	Class	Length	Width	Aspect	Analyte	Elements	Comment	Count Categories
G8	5	F41	CM	61	Fiber	0.9	0.08	11.2	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	5	F41	CM	62	Matrix 1-0	3	1.8	1.7	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	5	F41	CM	63	Fiber	5	0.07	71.4	Chrysotile			ASTM_>=5.0, ASTM_Total
G8	5	F41	CM	64	Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0

**ASTM D 6480-19 - Surface Wipes Raw Data -  
 Final Report**

Job Number: 221076      SEA  
 Client: Trinity Environmental

Ref. D6480-19

Report Number: 221076R01

Project Name: Asbestos Project- Dust Wipes 10-28-2022

Date Received: 10/28/2022

Lab/Cor Sample No: S17  
 Client Sample No: W17

Gr	No.	Loc.	ID	Prim	Tot	Class	Length	Width	Aspect	Analyte	Elements	Comment	Count Categories
G4	1	F42	CM	1		Fiber	2	0.15	13.3	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	F42	CM	2		Fiber	1	0.15	6.7	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	F42	CM	3		Bundle	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	F42	CM	4		Matrix 1-0	4	3	1.3	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	F42	CM	5		Fiber	0.75	0.1	7.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	F42	CM	6		Fiber	4.85	0.1	48.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	F42	CM	7		Fiber	3.5	0.1	35	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	F42	CM	8		Fiber	5	0.1	50	Chrysotile			ASTM_Total, ASTM_>=5.0
G4	1	F42	CM	9		Fiber	2.5	0.1	25	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	F42	CM	10		Bundle	2	0.2	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	F42	CM	11		Bundle	1	0.2	5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	F42	CDQ	12		Fiber	5.5	0.15	36.7	Chrysotile	Mg, Si		ASTM_Total, ASTM_>=5.0
						ItemType	ItemNum				Confirmed	Comment	
						Brightfield	J69506BF						
						Diffraction	J69506DF			SB	11/3/2022	0.53nm ROW SPACING	
						Spectra	J69506SP			SB	11/3/2022		
G4	1	F42	CM	13		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	F42	CM	14		Bundle	1	0.2	5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	F42	CM	15		Fiber	1	0.15	6.7	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	F42	CM	16		Fiber	2	0.15	13.3	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	F42	CM	17		Fiber	3.5	0.15	23.3	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	F42	CM	18		Fiber	0.85	0.08	10.6	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	F42	CM	19		Fiber	2.5	0.15	16.7	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	F42	CM	20		Fiber	1	0.08	12.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	F42	CM	21		Fiber	2.5	0.1	25	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	F42	CM	22		Matrix 1-0	4	2	2	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	G41	CM	23		Fiber	2	0.15	13.3	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	G41	CM	24		Fiber	7	0.15	46.7	Chrysotile			ASTM_Total, ASTM_>=5.0
G4	2	G41	CM	25		Fiber	4	0.1	40	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	G41	CM	26		Fiber	25	0.1	250	Chrysotile			ASTM_Total, ASTM_>=5.0
G4	2	G41	CM	27		Fiber	1	0.08	12.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	G41	CM	28		Fiber	1	0.05	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0

**ASTM D 6480-19 - Surface Wipes Raw Data -  
 Final Report**

Job Number: 221076      SEA  
 Client: Trinity Environmental

Ref. D6480-19

Report Number: 221076R01  
 Date Received: 10/28/2022

Project Name: Asbestos Project- Dust Wipes 10-28-2022

Lab/Cor Sample No: S17  
 Client Sample No: W17

Gr	No.	Loc.	ID	Prim	Tot	Class	Length	Width	Aspect	Analyte	Elements	Comment	Count Categories
G4	2	G41	CM	29		Fiber	1	0.08	12.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	G41	CM	30		Bundle	1	0.2	5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	G41	CM	31		Fiber	2	0.15	13.3	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	G41	CM	32		Fiber	1.5	0.1	15	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	G41	CM	33		Fiber	1.5	0.15	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	G41	CM	34		Cluster 4-0	1	0.5	2	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	G41	CM	35		Fiber	0.85	0.1	8.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	G41	CM	36		Fiber	5.5	0.15	36.7	Chrysotile			ASTM_Total, ASTM_>=5.0
G4	2	G41	CM	37		Bundle	1	0.2	5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	G41	CM	38		Fiber	2	0.15	13.3	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	G41	CM	39		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	G41	CM	40		Bundle	3	0.25	12	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	G41	CM	41		Bundle	3	0.15	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	G41	CM	42		Fiber	0.85	0.08	10.6	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	G41	CM	43		Fiber	4	0.15	26.7	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	G41	CD	44		Bundle	7.5	1	7.5	Chrysotile			ASTM_Total, ASTM_>=5.0
G4	2	G41	CM	45		Bundle	5	0.15	33.3	Chrysotile			ASTM_Total, ASTM_>=5.0
G4	2	G41	CM	46		Fiber	1.5	0.1	15	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	G41	CM	47		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	G41	CM	48		Fiber	1.5	0.15	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	G41	CM	49		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	G41	CM	50		Fiber	2.5	0.15	16.7	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	G41	CM	51		Bundle	7	0.2	35	Chrysotile			ASTM_Total, ASTM_>=5.0
G4	3	G33	CM	52		Fiber	1	0.15	6.7	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	3	G33	CM	53		Fiber	4.5	0.1	45	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	3	G33	CM	54		Fiber	4	0.1	40	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	3	G33	CM	55		Fiber	3.5	0.1	35	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	3	G33	CM	56		Fiber	1	0.15	6.7	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	3	G33	CM	57		Fiber	2	0.08	25	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	3	G33	CM	58		Fiber	1	0.15	6.7	Chrysotile			ASTM_Total, ASTM_0.5-5.0

**ASTM D 6480-19 - Surface Wipes Raw Data -  
 Final Report**

Job Number: 221076      SEA  
 Client: Trinity Environmental

Ref. D6480-19

Report Number: 221076R01  
 Date Received: 10/28/2022

Project Name: Asbestos Project- Dust Wipes 10-28-2022

Lab/Cor Sample No: S17  
 Client Sample No: W17

Gr	No.	Loc.	ID	Prim	Tot	Class	Length	Width	Aspect	Analyte	Elements	Comment	Count Categories
G4	3	G33	CM	59		Fiber	2	0.15	13.3	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	3	G33	CM	60		Fiber	1	0.15	6.7	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	3	G33	CM	61		Bundle	7.5	0.5	15	Chrysotile			ASTM_Total, ASTM_>=5.0
G4	3	G33	CM	62		Fiber	2.5	0.15	16.7	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	3	G33	CM	63		Fiber	7	0.15	46.7	Chrysotile			ASTM_Total, ASTM_>=5.0
G4	3	G33	CM	64		Fiber	2	0.15	13.3	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	3	G33	CM	65		Bundle	4	0.2	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	3	G33	CM	66		Fiber	7.5	0.1	75	Chrysotile			ASTM_Total, ASTM_>=5.0
G4	3	G33	CM	67		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	3	G33	CM	68		Fiber	3	0.15	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	3	G33	CM	69		Fiber	5.5	0.1	55	Chrysotile			ASTM_Total, ASTM_>=5.0
G4	3	G33	CM	70		Fiber	4	0.1	40	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	3	G33	CM	71		Fiber	2.5	0.1	25	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	3	G33	CM	72		Fiber	1	0.15	6.7	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	3	G33	CM	73		Bundle	7	0.5	14	Chrysotile			ASTM_Total, ASTM_>=5.0
G4	3	G33	CM	74		Bundle	2.5	0.15	16.7	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	3	G33	CM	75		Fiber	6	0.1	60	Chrysotile			ASTM_Total, ASTM_>=5.0
G4	3	G33	CM	76		Fiber	7.5	0.1	75	Chrysotile			ASTM_Total, ASTM_>=5.0
G5	4	C42	CM	77		Fiber	17	0.1	170	Chrysotile			ASTM_Total, ASTM_>=5.0
G5	4	C42	CM	78		Fiber	7	0.15	46.7	Chrysotile			ASTM_Total, ASTM_>=5.0
G5	4	C42	CM	79		Fiber	0.9	0.1	9	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	C42	CM	80		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	C42	CM	81		Fiber	1	0.15	6.7	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	C42	CM	82		Fiber	3	0.08	37.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	C42	CM	83		Fiber	3	0.15	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	C42	CM	84		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	C42	CM	85		Bundle	1	0.15	6.7	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	C42	CM	86		Bundle	1	0.2	5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	C42	CM	87		Fiber	3.5	0.1	35	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	C42	CM	88		Bundle	2.5	0.2	12.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	C42	CM	89		Fiber	7.5	0.15	50	Chrysotile			ASTM_Total, ASTM_>=5.0
G5	4	C42	CM	90		Fiber	2.5	0.1	25	Chrysotile			ASTM_Total, ASTM_0.5-5.0

**ASTM D 6480-19 - Surface Wipes Raw Data -  
 Final Report**

Job Number: 221076      SEA  
 Client: Trinity Environmental

Ref. D6480-19

Report Number: 221076R01

Project Name: Asbestos Project- Dust Wipes 10-28-2022

Date Received: 10/28/2022

Lab/Cor Sample No: S17

Client Sample No: W17

Gr	No.	Loc.	ID	Prim	Tot	Class	Length	Width	Aspect	Analyte	Elements	Comment	Count Categories
G5	4	C42	CM	91		Bundle	2	0.2	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	C42	CM	92		Fiber	1	0.15	6.7	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	C42	CM	93		Fiber	1.5	0.1	15	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	C42	CM	94		Fiber	3.5	0.1	35	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	C42	CM	95		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	C42	CM	96		Fiber	2	0.15	13.3	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	C42	CM	97		Fiber	2	0.15	13.3	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	C42	CM	98		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	C42	CM	99		Fiber	8.5	0.1	85	Chrysotile			ASTM_Total, ASTM_>=5.0
G5	4	C42	CM	100		Fiber	1.5	0.1	15	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	C42	CM	101		Fiber	3.5	0.1	35	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	C42	CM	102		Fiber	7.5	0.1	75	Chrysotile			ASTM_Total, ASTM_>=5.0
G5	4	C42	CM	103		Bundle	2	0.15	13.3	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	C42	CM	104		Fiber	4	0.1	40	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	C42	CM	105		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0

**ASTM D 6480-19 - Surface Wipes Raw Data -  
 Final Report**

Job Number: 221076      SEA  
 Client: Trinity Environmental

Ref. D6480-19

Report Number: 221076R01

Project Name: Asbestos Project- Dust Wipes 10-28-2022

Date Received: 10/28/2022

Lab/Cor Sample No: S18  
 Client Sample No: W18

Gr	No.	Loc.	ID	Prim	Tot	Class	Length	Width	Aspect	Analyte	Elements	Comment	Count Categories
G4	1	F42	CM	1		Fiber	1.5	0.1	15	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	F42	CD	2		Fiber	1	0.1	10	Chrysotile	Mg, Si		ASTM_Total, ASTM_0.5-5.0
						ItemType	ItemNum				Confirmed	Comment	
						Brightfield	J69507BF						
						Diffraction	J69507DF				SB 11/3/2022	0.53nm ROW SPACING	
						Spectra	J69507SP				SB 11/3/2022		
G4	1	F42	CM	3		Bundle	1	0.15	6.7	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	F42	CM	4		Fiber	1.7	0.1	17	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	G41	CM	5		Fiber	4.5	0.1	45	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	G41	CM	6		Matrix 1-0	7	5	1.4	Chrysotile			ASTM_Total, ASTM_>=5.0
G4	2	G41	CM	7		Fiber	0.75	0.1	7.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	G41	CM	8		Matrix 1-0	4	2	2	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	3	G33	CM	9		Fiber	0.75	0.15	5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	3	G33	CM	10		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	3	G33	CM	11		Fiber	0.55	0.1	5.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	3	G33	CM	12		Fiber	2	0.08	25	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	3	G33	CM	13		Fiber	2	0.15	13.3	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	E44	CM	14		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	E44	CM	15		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	5	F43	CM	16		Fiber	1	0.15	6.7	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	5	F43	CM	17		Fiber	1	0.15	6.7	Chrysotile			ASTM_Total, ASTM_0.5-5.0

**ASTM D 6480-19 - Surface Wipes Raw Data -  
 Final Report**

Job Number: 221076      SEA  
 Client: Trinity Environmental

Ref. D6480-19

Report Number: 221076R01  
 Date Received: 10/28/2022

Project Name: Asbestos Project- Dust Wipes 10-28-2022

Lab/Cor Sample No: S19  
 Client Sample No: W19

Gr	No.	Loc.	ID	Prim	Tot	Class	Length	Width	Aspect	Analyte	Elements	Comment	Count Categories
G7	1	E44	CD	1		Bundle	2.4	0.35	6.9	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CD	2		Fiber	3.2	0.08	40	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CD	3		Bundle	1.4	0.11	12.7	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	4		Fiber	0.8	0.08	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	5		Fiber	4.5	0.1	45	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	2	F43	CDQ	6		Fiber	1.5	0.1	15	Chrysotile	Mg, Si		ASTM_Total, ASTM_0.5-5.0
						ItemType	ItemNum		Confirmed		Comment		
						Brightfield	J69508BF						
						Diffraction Spectra	J69508DF J69508SP		SB 11/3/2022 SB 11/3/2022		0.53nm ROW SPACING		
G7	2	F43	CM	7		Fiber	1.2	0.1	12	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	2	F43	CM	8		Bundle	1.15	0.1	11.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	3	F51	CM	9		Fiber	1.25	0.15	8.3	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	3	F51	CM	10		Fiber	0.8	0.15	5.3	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	3	F51	CM	11		Fiber	1.25	0.08	15.6	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	4	F32	CM	12		Fiber	3	0.08	37.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	4	F32	CM	13		Fiber	2.5	0.08	31.2	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	5	G31	CM	14		Fiber	2	0.08	25	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	5	G31	CM	15		Fiber	2	0.08	25	Chrysotile			ASTM_Total, ASTM_0.5-5.0

**ASTM D 6480-19 - Surface Wipes Raw Data -  
 Final Report**

Job Number: 221076      SEA  
 Client: Trinity Environmental

Ref. D6480-19

Report Number: 221076R01  
 Date Received: 10/28/2022

Project Name: Asbestos Project- Dust Wipes 10-28-2022

Lab/Cor Sample No: S20  
 Client Sample No: W20

Gr	No.	Loc.	ID	Prim	Tot	Class	Length	Width	Aspect	Analyte	Elements	Comment	Count Categories
G4	1	E42	CM	1		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	E42	CM	2		Fiber	0.55	0.08	6.9	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	F41	CM	3		Fiber	1	0.15	6.7	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	F41	CM	4		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	3	F34	CDQ	5		Fiber	2.5	0.1	25	Chrysotile	Mg, Si		ASTM_Total, ASTM_0.5-5.0
						ItemType	ItemNum			Confirmed	Comment		
						Brightfield	J69509BF						
						Diffraction	J69509DF			SB 11/3/2022	0.53nm ROW SPACING		
						Spectra	J69509SP			SB 11/3/2022			
G4	3	F34	CM	6		Matrix 1-0	2.6	1.5	1.7	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	F42	CM	7		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	F42	CM	8		Fiber	2.5	0.1	25	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	5	G41				NSD							

**ASTM D 6480-19 - Surface Wipes Raw Data -  
 Final Report**

Job Number: 221076      SEA  
 Client: Trinity Environmental

Ref. D6480-19

Report Number: 221076R01  
 Date Received: 10/28/2022

Project Name: Asbestos Project- Dust Wipes 10-28-2022

Lab/Cor Sample No: S21  
 Client Sample No: W21

Gr	No.	Loc.	ID	Prim	Tot	Class	Length	Width	Aspect	Analyte	Elements	Comment	Count Categories
G4	1	G44	CDQ	1		Fiber	2.25	0.08	28.1	Chrysotile	Mg, Si		ASTM_Total, ASTM_0.5-5.0
						ItemType	ItemNum			Confirmed	Comment		
						Brightfield	J69510BF						
						Diffraction	J69510DF			SB 11/3/2022	0.53nm ROW SPACING		
						Spectra	J69510SP			SB 11/3/2022			
G4	1	G44	CM	2		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	G44	CM	3		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	G44	CM	4		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	G44	CM	5		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	G44	CM	6		Fiber	16	0.1	160	Chrysotile			ASTM_Total, ASTM_>=5.0
G4	1	G44	CM	7		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	G44	CM	8		Fiber	1.2	0.1	12	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	G44	CM	9		Fiber	1	0.08	12.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	H43	CM	10		Fiber	6	0.1	60	Chrysotile			ASTM_Total, ASTM_>=5.0
G4	2	H43	CM	11		Fiber	1.1	0.1	11	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	H43	CM	12		Fiber	1.23	0.1	12.3	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	H43	CM	13		Fiber	1.2	0.1	12	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	H43	CM	14		Matrix 1-0	5	4	1.2	Chrysotile			ASTM_Total, ASTM_>=5.0
G4	2	H43	CM	15		Fiber	0.85	0.1	8.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	3	H51	CM	16		Fiber	4.95	0.1	49.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	3	H51	CM	17		Fiber	19	0.1	190	Chrysotile			ASTM_Total, ASTM_>=5.0
G4	3	H51	CM	18		Fiber	4.5	0.1	45	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	E42	CM	19		Fiber	2.5	0.1	25	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	5	F41	CM	20		Matrix 1-0	2.5	2	1.2	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	5	F41	CM	21		Fiber	2.25	0.1	22.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	5	F41	CM	22		Fiber	0.75	0.1	7.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0

**ASTM D 6480-19 - Surface Wipes Raw Data -  
 Final Report**

Job Number: 221076      SEA  
 Client: Trinity Environmental

Ref. D6480-19

Report Number: 221076R01  
 Date Received: 10/28/2022

Project Name: Asbestos Project- Dust Wipes 10-28-2022

Lab/Cor Sample No: S22  
 Client Sample No: W22

Gr	No.	Loc.	ID	Prim	Tot	Class	Length	Width	Aspect	Analyte	Elements	Comment	Count Categories
G7	1	F42	CM	1		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	F42	CM	2		Fiber	2	0.08	25	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	2	G41	CDQ	3		Fiber	1.14	0.1	11.4	Chrysotile	Mg, Si		ASTM_Total, ASTM_0.5-5.0
						ItemType	ItemNum		Confirmed		Comment		
						Brightfield	J69511BF						
						Diffraction	J69511DF		SB	11/3/2022	0.53nm ROW SPACING		
						Spectra	J69511SP		SB	11/3/2022			
G7	3	G34	CM	4		Fiber	2.15	0.1	21.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	3	G34	CM	5		Fiber	3.5	0.1	35	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	3	G34	CM	6		Fiber	1.15	0.15	7.7	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	3	G34	CM	7		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	3	G34	CM	8		Fiber	4.5	0.1	45	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	4	F32	CM	9		Fiber	0.85	0.1	8.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	4	F32	CM	10		Fiber	4	0.1	40	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	4	F32	CM	11		Fiber	0.8	0.15	5.3	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	4	F32	CM	12		Fiber	0.8	0.1	8	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	4	F32	CM	13		Fiber	2.8	0.1	28	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	5	G31	CM	14		Fiber	1	0.08	12.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	5	G31	CM	15		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	5	G31	CM	16		Fiber	1.25	0.1	12.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0

**ASTM D 6480-19 - Surface Wipes Raw Data -  
Final Report**

Job Number: 221076      SEA  
Client: Trinity Environmental

Ref. D6480-19

Report Number: 221076R01  
Date Received: 10/28/2022

Project Name: Asbestos Project- Dust Wipes 10-28-2022

Lab/Cor Sample No: S23  
Client Sample No: W23

Gr	No.	Loc.	ID	Prim	Tot	Class	Length	Width	Aspect	Analyte	Elements	Comment	Count Categories
G7	1	E33	CDQ	1		Matrix 1-0	3.3	0.8	4.1	Chrysotile	Mg, Si		ASTM_Total, ASTM_0.5-5.0
						ItemType	ItemNum			Confirmed		Comment	
						Spectra	J69512SP			KM	11/3/2022		
						Diffraction	J69512DF			KM	11/3/2022	0.53nm ROW SPACING	
						Brightfield	J69512BF						
G7	1	E33	CM	2		Matrix 1-0	2	0.8	2.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E33	CM	3		Matrix 1-0	4.5	3	1.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E33	CD	4		Fiber	1.6	0.1	16	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E33	CM	5		Fiber	2.5	0.08	31.2	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E33	CM	6		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E33	CM	7		Bundle	3	0.13	23.1	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E33	CD	8		Bundle	3.3	0.11	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E33	CM	9		Matrix 1-0	2	1.2	1.7	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E33	CM	10		Fiber	0.8	0.1	8	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	2	E42	CM	11		Fiber	7.5	0.1	75	Chrysotile			ASTM_Total, ASTM_>=5.0
G7	2	E42	CM	12		Fiber	1.2	0.1	12	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	2	E42	CM	13		Fiber	2	0.08	25	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	2	E42	CM	14		Fiber	2	0.08	25	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	2	E42	CM	15		Fiber	4	0.1	40	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	2	E42	CM	16		Fiber	8	0.1	80	Chrysotile			ASTM_>=5.0, ASTM_Total
G7	2	E42	CM	17		Fiber	4.6	0.1	46	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	3	F44	CM	18		Fiber	1.8	0.1	18	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	3	F44	CM	19		Fiber	4.7	0.1	47	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	3	F44	CM	20		Fiber	4.5	0.08	56.2	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	3	F44	CM	21		Bundle	11.1	0.12	92.5	Chrysotile			ASTM_>=5.0, ASTM_Total
G7	3	F44	CD	22		Bundle	23	0.3	76.7	Chrysotile			ASTM_>=5.0, ASTM_Total
G7	3	F44	CM	23		Matrix 1-1	7	1.5	4.7	Chrysotile			ASTM_>=5.0, ASTM_Total
G7	3	F44	CM	24		Bundle	1.2	0.22	5.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	3	F44	CM	25		Fiber	1.6	0.05	32	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	4	E34	CD	26		Fiber	0.7	0.08	8.8	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	4	E34	CD	27		Fiber	3.8	0.1	38	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	4	E34	CM	28		Fiber	2.8	0.07	40	Chrysotile			ASTM_Total, ASTM_0.5-5.0

**ASTM D 6480-19 - Surface Wipes Raw Data -  
 Final Report**

Job Number: 221076      SEA  
 Client: Trinity Environmental

Ref. D6480-19

Report Number: 221076R01  
 Date Received: 10/28/2022

Project Name: Asbestos Project- Dust Wipes 10-28-2022

Lab/Cor Sample No: S23  
 Client Sample No: W23

Gr	No.	Loc.	ID	Prim	Tot	Class	Length	Width	Aspect	Analyte	Elements	Comment	Count Categories
G8	4	E34	CM	29		Fiber	4	0.1	40	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	5	F41	CM	30		Fiber	0.9	0.05	18	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	5	F41	CM	31		Fiber	0.8	0.08	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	5	F41	CM	32		Fiber	0.9	0.03	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	5	F41	CD	33		Fiber	3.5	0.07	50	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	5	F41	CD	34		Matrix 1-0	3	1.1	2.7	Chrysotile			ASTM_Total, ASTM_0.5-5.0

Lab/Cor Sample No: S24  
 Client Sample No: W24

Gr	No.	Loc.	ID	Prim	Tot	Class	Length	Width	Aspect	Analyte	Elements	Comment	Count Categories
G7	1	E44	CM	1		Fiber	0.8	0.1	8	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	1	E44	CM	2		Fiber	0.6	0.07	8.6	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	2	F43	CDQ	3		Fiber	2	0.1	20	Chrysotile	Mg, Si		ASTM_Total, ASTM_0.5-5.0
						ItemType	ItemNum	Confirmed	Comment				
						Spectra	J69513SP	KM 11/3/2022					
						Diffraction	J69513DF	KM 11/3/2022	0.53nm ROW SPACING				
						Brightfield	J69513BF						
G7	2	F43	CM	4		Fiber	0.8	0.11	7.3	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	2	F43	CM	5		Matrix 1-0	1.8	0.8	2.2	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	2	F43	CD	6		Fiber	0.6	0.08	7.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	3	C52	CD	7		Fiber	1.6	0.11	14.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	3	C52	CM	8		Fiber	0.5	0.05	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	3	C52	CM	9		Fiber	4.8	0.1	48	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	3	C52	CM	10		Cluster 3-0	2.2	0.3	7.3	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	3	C52	CM	11		Matrix 1-0	1.8	0.6	3	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	4	C42	CD	12		Fiber	0.7	0.08	8.8	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	4	C42	CM	13		Fiber	1.2	0.1	12	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	4	C42	CM	14		Fiber	0.8	0.08	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	4	C42	CM	15		Fiber	7	0.07	100	Chrysotile			ASTM_>=5.0, ASTM_Total
G8	5	G52	CD	16		Fiber	0.7	0.08	8.8	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	5	G52	CM	17		Fiber	0.8	0.1	8	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	5	G52	CM	18		Fiber	5.3	0.08	66.3	Chrysotile			ASTM_>=5.0, ASTM_Total

**ASTM D 6480-19 - Surface Wipes Raw Data -  
Final Report**

Job Number: 221076      SEA  
Client: Trinity Environmental

Ref. D6480-19

Report Number: 221076R01  
Date Received: 10/28/2022

Project Name: Asbestos Project- Dust Wipes 10-28-2022

Lab/Cor Sample No: S25  
Client Sample No: W25

Gr	No.	Loc.	ID	Prim	Tot	Class	Length	Width	Aspect	Analyte	Elements	Comment	Count Categories
G7	1	E33	CDQ	1		Bundle	2	0.15	13.3	Chrysotile	Mg, Si		ASTM_Total, ASTM_0.5-5.0
						ItemType						Confirmed	Comment
						Spectra						KM 11/3/2022	
						Diffraction						KM 11/3/2022	0.53nm ROW SPACING
						Brightfield							
G7	2	F41	CM	2		Fiber	1.8	0.08	22.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	2	F41	CD	3		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	2	F41	CD	4		Fiber	4	0.1	40	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	2	F41	CM	5		Fiber	1.1	0.1	11	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	2	F41	CD	6		Bundle	5.35	0.23	23.3	Chrysotile			ASTM_Total, ASTM_>=5.0
G7	2	F41	CM	7		Matrix 3-1	8.5	6	1.4	Chrysotile			ASTM_Total, ASTM_>=5.0
G7	2	F41	CM	8		Matrix 1-1	5.2	0.6	8.7	Chrysotile			ASTM_Total, ASTM_>=5.0
G7	3	G44	CM	9		Matrix 1-0	2	0.9	2.2	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	3	G44	CM	10		Fiber	9.5	0.1	95	Chrysotile			ASTM_Total, ASTM_>=5.0
G7	3	G44	CM	11		Cluster 5-0	3	2	1.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G7	3	G44	CM	12		Fiber	7	0.08	87.5	Chrysotile			ASTM_>=5.0, ASTM_Total
G8	4	E34	CD	13		Bundle	4	0.12	33.3	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	4	E34	CM	14		Fiber	1	0.08	12.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	5	F42	CM	15		Fiber	4.35	0.1	43.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	5	F42	CD	16		Fiber	2.6	0.11	23.6	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	5	F42	CD	17		Fiber	13.5	0.11	122.7	Chrysotile			ASTM_Total, ASTM_>=5.0
G8	5	F42	CM	18		Fiber	5.1	0.07	72.9	Chrysotile			ASTM_Total, ASTM_>=5.0
G8	5	F42	CM	19		Fiber	0.85	0.08	10.6	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	5	F42	CM	20		Fiber	0.6	0.07	8.6	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	5	F42	CM	21		Matrix 1-0	3	0.6	5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	5	F42	CM	22		Bundle	1.2	0.11	10.9	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G8	5	F42	CD	23		Bundle	4.7	0.15	31.3	Chrysotile			ASTM_Total, ASTM_0.5-5.0

**ASTM D 6480-19 - Surface Wipes Raw Data -  
 Final Report**

Job Number: 221076      SEA  
 Client: Trinity Environmental

Ref. D6480-19

Report Number: 221076R01

Project Name: Asbestos Project- Dust Wipes 10-28-2022

Date Received: 10/28/2022

Lab/Cor Sample No: S26  
 Client Sample No: W26

Gr	No.	Loc.	ID	Prim	Tot	Class	Length	Width	Aspect	Analyte	Elements	Comment	Count Categories
G4	1	E33				NSD							
G4	2	E42	CDQ	1		Fiber	4.1	0.1	41	Chrysotile	Mg, Si		ASTM_Total, ASTM_0.5-5.0
						ItemType	ItemNum			Confirmed	Comment		
						Spectra	J69515SP			KM	11/3/2022		
						Diffraction	J69515DF			KM	11/3/2022    0.53nm ROW SPACING		
						Brightfield	J69515BF						
G4	2	E42	CM	2		Fiber	8.5	0.08	106.2	Chrysotile			ASTM_Total, ASTM_>=5.0
G4	3	F43	CD	3		Fiber	0.7	0.1	7	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	3	F43	CM	4		Matrix 1-0	2	0.9	2.2	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	3	F43	CM	5		Matrix 1-0	1.8	0.6	3	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	E34	CD	6		Fiber	6	0.08	75	Chrysotile			ASTM_Total, ASTM_>=5.0
G5	4	E34	CM	7		Fiber	0.68	0.07	9.7	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	5	F41	CD	8		Fiber	3	0.08	37.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	5	F41	CD	9		Fiber	0.8	0.07	11.4	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	5	F41	CM	10		Fiber	0.8	0.1	8	Chrysotile			ASTM_Total, ASTM_0.5-5.0

**ASTM D 6480-19 - Surface Wipes Raw Data -  
 Final Report**

Job Number: 221076      SEA  
 Client: Trinity Environmental

Ref. D6480-19

Report Number: 221076R01  
 Date Received: 10/28/2022

Project Name: Asbestos Project- Dust Wipes 10-28-2022

Lab/Cor Sample No: S27  
 Client Sample No: W27

Gr	No.	Loc.	ID	Prim	Tot	Class	Length	Width	Aspect	Analyte	Elements	Comment	Count Categories
G4	1	E42	CM	1		Matrix 1-0	1.5	0.8	1.9	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	E42	CD	2		Fiber	5.9	0.1	59	Chrysotile			ASTM_Total, ASTM_>=5.0
G4	1	E42	CD	3		Fiber	0.7	0.11	6.4	Chrysotile	Mg, Si		ASTM_Total, ASTM_0.5-5.0
						ItemType	ItemNum	Confirmed	Comment				
						Spectra	J69517SP	KM 11/4/2022					
						Diffraction	J69517DF	KM 11/4/2022	0.53nm ROW SPACING				
						Brightfield	J69517BF						
G4	1	E42	CM	4		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	E42	CM	5		Fiber	0.8	0.08	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	E42	CM	6		Fiber	0.8	0.1	8	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	G43	CM	7		Fiber	8	0.11	72.7	Chrysotile			ASTM_Total, ASTM_>=5.0
G4	2	G43	CM	8		Fiber	11	0.1	110	Chrysotile			ASTM_Total, ASTM_>=5.0
G4	2	G43	CM	9		Fiber	2.2	0.08	27.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	3	F42	CM	10		Fiber	1.2	0.1	12	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	3	F42	CM	11		Fiber	7.2	0.08	90	Chrysotile			ASTM_Total, ASTM_>=5.0
G5	4	G33	CD	12		Fiber	0.8	0.1	8	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	G33	CM	13		Fiber	2.8	0.08	35	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	G33	CD	14		Bundle	4	0.2	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	G33	CM	15		Fiber	1.8	0.07	25.7	Chrysotile			ASTM_Total, ASTM_0.5-5.0

**ASTM D 6480-19 - Surface Wipes Raw Data -  
 Final Report**

Job Number: 221076      SEA  
 Client: Trinity Environmental

Ref. D6480-19

Report Number: 221076R01

Project Name: Asbestos Project- Dust Wipes 10-28-2022

Date Received: 10/28/2022

Lab/Cor Sample No: S28

Client Sample No: W28

Gr	No.	Loc.	ID	Prim	Tot	Class	Length	Width	Aspect	Analyte	Elements	Comment	Count Categories
G4	1	F33	CM	1		Fiber	12	0.08	150	Chrysotile			ASTM_Total, ASTM_>=5.0
G4	1	F33	CM	2		Fiber	1.7	0.1	17	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	F33	CM	3		Matrix 1-0	3	0.8	3.8	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	F33	CD	4		Fiber	0.8	0.08	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	F33	CDQ	5		Fiber	2	0.1	20	Chrysotile	Mg, Si		ASTM_Total, ASTM_0.5-5.0
						ItemType	ItemNum			Confirmed	Comment		
						Spectra	J69518SP			KM	11/4/2022		
						Diffraction	J69518DF			KM	11/4/2022	0.53nm ROW SPACING	
						Brightfield	J69518BF						
G4	1	F33	CM	6		Fiber	1.3	0.11	11.8	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	G41	CM	7		Fiber	1.7	0.1	17	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	G41	CM	8		Matrix 1-0	3.5	1	3.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	G41	CM	9		Matrix 1-1	18	5.5	3.3	Chrysotile			ASTM_Total, ASTM_>=5.0
G5	3	E34	CD	10		Fiber	0.8	0.1	8	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	3	E34	CM	11		Fiber	1.2	0.07	17.1	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	F41	CM	12		Matrix 1-0	4	1.5	2.7	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	F41	CD	13		Fiber	6.5	0.1	65	Chrysotile			ASTM_Total, ASTM_>=5.0
G5	4	F41	CM	14		Matrix 1-0	2	0.6	3.3	Chrysotile			ASTM_Total, ASTM_0.5-5.0

**ASTM D 6480-19 - Surface Wipes Raw Data -  
 Final Report**

Job Number: 221076      SEA  
 Client: Trinity Environmental

Ref. D6480-19

Report Number: 221076R01  
 Date Received: 10/28/2022

Project Name: Asbestos Project- Dust Wipes 10-28-2022

Lab/Cor Sample No: S29  
 Client Sample No: W29

Gr	No.	Loc.	ID	Prim	Tot	Class	Length	Width	Aspect	Analyte	Elements	Comment	Count Categories
G4	1	E34	CMQ	1		Fiber	3.1	0.1	31	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	E34	CDQ	2		Matrix 1-0	3.3	1	3.3	Chrysotile	Mg, Si		ASTM_Total, ASTM_0.5-5.0
						ItemType	ItemNum	Confirmed	Comment				
						Spectra	J69519SP	KM 11/4/2022					
						Diffraction	J69519DF	KM 11/4/2022	0.53nm ROW SPACING				
						Brightfield	J69519BF						
G4	1	E34	CM	3		Fiber	1.2	0.05	24	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	F41	CD	4		Fiber	0.9	0.1	9	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	F41	CD	5		Bundle	8.1	0.6	13.5	Chrysotile			ASTM_Total, ASTM_>=5.0
G4	2	F41	CM	6		Fiber	5.1	0.07	72.9	Chrysotile			ASTM_Total, ASTM_>=5.0
G4	2	F41	CM	7		Fiber	1.6	0.07	22.9	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	F41	CD	8		Fiber	0.85	0.1	8.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	F41	CM	9		Fiber	3.8	0.1	38	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	F41	CM	10		Fiber	1.7	0.08	21.3	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	3	F33	CM	11		Matrix 1-1	6	1.5	4	Chrysotile			ASTM_Total, ASTM_>=5.0
G5	3	F33	CM	12		Fiber	0.9	0.07	12.9	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	3	F33	CM	13		Fiber	16	0.1	160	Chrysotile			ASTM_Total, ASTM_>=5.0
G5	3	F33	CD	14		Fiber	0.7	0.1	7	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	G41	CM	15		Fiber	1.7	0.05	34	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	G41	CM	16		Fiber	0.7	0.1	7	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	G41	CM	17		Fiber	3.5	0.1	35	Chrysotile			ASTM_Total, ASTM_0.5-5.0

**ASTM D 6480-19 - Surface Wipes Raw Data -  
Final Report**

Job Number: 221076      SEA  
Client: Trinity Environmental

Ref. D6480-19

Report Number: 221076R01  
Date Received: 10/28/2022

Project Name: Asbestos Project- Dust Wipes 10-28-2022

Lab/Cor Sample No: S30  
Client Sample No: W30

Gr	No.	Loc.	ID	Prim	Tot	Class	Length	Width	Aspect	Analyte	Elements	Comment	Count Categories
G4	1	E34	CM	1		Fiber	1.7	0.07	24.3	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	E34	CM	2		Matrix 1-0	5.5	5	1.1	Chrysotile			ASTM_Total, ASTM_>=5.0
G4	1	E34	CM	3		Fiber	7	0.11	63.6	Chrysotile			ASTM_Total, ASTM_>=5.0
G4	1	E34	CM	4		Fiber	1.7	0.1	17	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	E34	CM	5		Fiber	0.7	0.1	7	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	E34	CM	6		Fiber	13	0.11	118.2	Chrysotile			ASTM_Total, ASTM_>=5.0
G4	1	E34	CM	7		Fiber	6	0.1	60	Chrysotile			ASTM_Total, ASTM_>=5.0
G4	1	E34	CM	8		Fiber	8	0.11	72.7	Chrysotile			ASTM_Total, ASTM_>=5.0
G4	1	E34	CM	9		Matrix 1-1	16	5	3.2	Chrysotile			ASTM_Total, ASTM_>=5.0
G4	1	E34	CM	10		Fiber	9	0.1	90	Chrysotile			ASTM_Total, ASTM_>=5.0
G4	2	F33	CDQ	11		Fiber	5.5	0.1	55	Chrysotile	Mg, Si		ASTM_Total, ASTM_>=5.0
						ItemType	ItemNum				Confirmed	Comment	
						Brightfield	J69520BF						
						Diffraction	J69520DF			SB	11/4/2022	0.53nm ROW SPACING	
						Spectra	J69520SP			SB	11/4/2022		
G4	2	F33	CM	12		Matrix 1-0	7.5	7	1.1	Chrysotile			ASTM_Total, ASTM_>=5.0
G4	2	F33	CM	13		Matrix 1-0	7.5	5	1.5	Chrysotile			ASTM_Total, ASTM_>=5.0
G4	2	F33	CM	14		Bundle	2.5	0.2	12.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	F33	CM	15		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	F33	CM	16		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	F33	CM	17		Fiber	6.2	0.1	62	Chrysotile			ASTM_Total, ASTM_>=5.0
G4	2	F33	CM	18		Fiber	2.8	0.1	28	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	F33	CM	19		Bundle	9	0.1	90	Chrysotile			ASTM_Total, ASTM_>=5.0
G4	2	F33	CM	20		Fiber	9	0.1	90	Chrysotile			ASTM_Total, ASTM_>=5.0
G4	2	F33	CM	21		Fiber	7.8	0.1	78	Chrysotile			ASTM_Total, ASTM_>=5.0
G4	2	F33	CM	22		Fiber	2.2	0.2	11	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	F33	CM	23		Fiber	2.5	0.1	25	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	F33	CM	24		Fiber	4	0.1	40	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	F33	CM	25		Fiber	3.5	0.1	35	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	F33	CM	26		Fiber	12	0.15	80	Chrysotile			ASTM_Total, ASTM_>=5.0
G5	3	E44	CM	27		Bundle	1.2	0.15	8	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	3	E44	CM	28		Fiber	1.2	0.1	12	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	3	E44	CM	29		Bundle	7.5	0.15	50	Chrysotile			ASTM_Total, ASTM_>=5.0
G5	3	E44	CM	30		Fiber	8	0.1	80	Chrysotile			ASTM_Total, ASTM_>=5.0
G5	3	E44	CM	31		Fiber	3	0.15	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	3	E44	CM	32		Fiber	2.5	0.08	31.2	Chrysotile			ASTM_Total, ASTM_0.5-5.0

**ASTM D 6480-19 - Surface Wipes Raw Data -  
 Final Report**

Job Number: 221076      SEA  
 Client: Trinity Environmental

Ref. D6480-19

Report Number: 221076R01  
 Date Received: 10/28/2022

Project Name: Asbestos Project- Dust Wipes 10-28-2022

Lab/Cor Sample No: S30  
 Client Sample No: W30

Gr	No.	Loc.	ID	Prim	Tot	Class	Length	Width	Aspect	Analyte	Elements	Comment	Count Categories
G5	3	E44	CM	33		Fiber	1	0.15	6.7	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	3	E44	CM	34		Fiber	7.5	0.1	75	Chrysotile			ASTM_Total, ASTM_>=5.0
G5	3	E44	CM	35		Fiber	0.6	0.1	6	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	3	E44	CM	36		Fiber	2.15	0.08	26.9	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	3	E44	CM	37		Fiber	2.5	0.1	25	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	F43	CD	38		Fiber	3.2	0.1	32	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	F43	CM	39		Fiber	7	0.15	46.7	Chrysotile			ASTM_Total, ASTM_>=5.0
G5	4	F43	CM	40		Fiber	1	0.08	12.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	F43	CM	41		Fiber	2.1	0.1	21	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	F43	CM	42		Fiber	5.6	0.1	56	Chrysotile			ASTM_Total, ASTM_>=5.0
G5	4	F43	CM	43		Fiber	3.5	0.1	35	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	F43	CM	44		Bundle	11.5	0.15	76.7	Chrysotile			ASTM_Total, ASTM_>=5.0
G5	4	F43	CM	45		Fiber	1.15	0.1	11.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	F43	CM	46		Fiber	11	0.1	110	Chrysotile			ASTM_Total, ASTM_>=5.0
G5	4	F43	CM	47		Fiber	1	0.15	6.7	Chrysotile			ASTM_Total, ASTM_0.5-5.0

**ASTM D 6480-19 - Surface Wipes Raw Data -  
Final Report**

Job Number: 221076      SEA  
Client: Trinity Environmental

Ref. D6480-19

Report Number: 221076R01

Project Name: Asbestos Project- Dust Wipes 10-28-2022

Date Received: 10/28/2022

Lab/Cor Sample No: S31  
Client Sample No: W31

Gr	No.	Loc.	ID	Prim	Tot	Class	Length	Width	Aspect	Analyte	Elements	Comment	Count Categories
G4	1	E34	CM	1		Fiber	0.8	0.1	8	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	E34	CM	2		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	E34	CM	3		Fiber	7.5	0.1	75	Chrysotile			ASTM_>=5.0, ASTM_Total
G4	1	E34	CM	4		Fiber	32.5	0.15	216.7	Chrysotile			ASTM_>=5.0, ASTM_Total
G4	1	E34	CM	5		Fiber	4.9	0.15	32.7	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	E34	CM	6		Fiber	0.8	0.14	5.7	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	E34	CM	7		Fiber	2	0.15	13.3	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	E34	CM	8		Bundle	7.5	0.25	30	Chrysotile			ASTM_>=5.0, ASTM_Total
G4	1	E34	CDQ	9		Fiber	2	0.15	13.3	Chrysotile	Mg, Si		ASTM_Total, ASTM_0.5-5.0
						ItemType	ItemNum		Confirmed		Comment		
						Brightfield	J69521BF						
						Diffraction	J69521DF		SB 11/4/2022		0.53nm ROW SPACING		
						Spectra	J69521SP		SB 11/4/2022				
G4	1	E34	CM	10		Fiber	6	0.1	60	Chrysotile			ASTM_>=5.0, ASTM_Total
G4	1	E34	CM	11		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	E34	CM	12		Fiber	1.15	0.1	11.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	E34	CM	13		Fiber	3.85	0.1	38.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	E34	CM	14		Fiber	1.2	0.1	12	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	F33	CM	15		Bundle	37	0.2	185	Chrysotile			ASTM_>=5.0, ASTM_Total
G4	2	F33	CM	16		Fiber	7.5	0.1	75	Chrysotile			ASTM_>=5.0, ASTM_Total
G4	2	F33	CM	17		Fiber	7.5	0.1	75	Chrysotile			ASTM_>=5.0, ASTM_Total
G4	2	F33	CM	18		Matrix 1-1	7.5	3	2.5	Chrysotile			ASTM_>=5.0, ASTM_Total
G4	2	F33	CM	19		Fiber	5	0.1	50	Chrysotile			ASTM_>=5.0, ASTM_Total
G4	2	F33	CM	20		Fiber	3.5	0.1	35	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	F33	CM	21		Fiber	3	0.15	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	F33	CM	22		Matrix 1-0	8	2.5	3.2	Chrysotile			ASTM_>=5.0, ASTM_Total
G4	2	F33	CM	23		Matrix 1-0	4	2	2	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	F33	CM	24		Fiber	1.5	0.15	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	F33	CM	25		Fiber	2.25	0.1	22.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	F33	CM	26		Bundle	2	0.2	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	F33	CM	27		Fiber	2.5	0.15	16.7	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	F33	CM	28		Bundle	45	0.2	225	Chrysotile			ASTM_>=5.0, ASTM_Total
G4	2	F33	CM	29		Fiber	8.5	0.15	56.7	Chrysotile			ASTM_>=5.0, ASTM_Total
G4	2	F33	CM	30		Fiber	3.5	0.1	35	Chrysotile			ASTM_Total, ASTM_0.5-5.0

**ASTM D 6480-19 - Surface Wipes Raw Data -  
Final Report**

Job Number: 221076      SEA  
Client: Trinity Environmental

Ref. D6480-19

Report Number: 221076R01  
Date Received: 10/28/2022

Project Name: Asbestos Project- Dust Wipes 10-28-2022

Lab/Cor Sample No: S31  
Client Sample No: W31

Gr	No.	Loc.	ID	Prim Tot	Class	Length	Width	Aspect	Analyte	Elements	Comment	Count Categories
G4	2	F33	CM	31	Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	F33	CM	32	Matrix 1-0	4	2.2	1.8	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	F33	CM	33	Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	F33	CM	34	Fiber	8.8	0.1	88	Chrysotile			ASTM_>=5.0, ASTM_Total
G4	2	F33	CM	35	Fiber	0.85	0.1	8.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	F33	CM	36	Fiber	1.5	0.1	15	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	F33	CM	37	Fiber	9	0.1	90	Chrysotile			ASTM_>=5.0, ASTM_Total
G4	2	F33	CM	38	Fiber	4	0.1	40	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	F33	CM	39	Fiber	2.5	0.1	25	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	F33	CM	40	Bundle	2	0.2	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	F33	CM	41	Fiber	2.5	0.1	25	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	F33	CM	42	Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	3	E42	CM	43	Matrix 1-1	10	2	5	Chrysotile			ASTM_>=5.0, ASTM_Total
G5	3	E42	CM	44	Fiber	2.5	0.1	25	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	3	E42	CM	45	Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	3	E42	CM	46	Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	3	E42	CM	47	Fiber	1.5	0.1	15	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	3	E42	CM	48	Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	3	E42	CD	49	Fiber	6.2	0.1	62	Chrysotile			ASTM_>=5.0, ASTM_Total
G5	3	E42	CM	50	Matrix 2-0	7.5	4	1.9	Chrysotile			ASTM_>=5.0, ASTM_Total
G5	3	E42	CD	51	Fiber	6	0.1	60	Chrysotile			ASTM_>=5.0, ASTM_Total
G5	3	E42	CM	52	Fiber	2	0.15	13.3	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	3	E42	CM	53	Fiber	8	0.1	80	Chrysotile			ASTM_>=5.0, ASTM_Total
G5	3	E42	CM	54	Fiber	8	0.15	53.3	Chrysotile			ASTM_>=5.0, ASTM_Total
G5	3	E42	CM	55	Bundle	1	0.15	6.7	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	3	E42	CM	56	Bundle	20.5	0.15	136.7	Chrysotile			ASTM_>=5.0, ASTM_Total
G5	3	E42	CM	57	Bundle	8	0.85	9.4	Chrysotile			ASTM_>=5.0, ASTM_Total
G5	3	E42	CM	58	Fiber	4	0.1	40	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	3	E42	CD	59	Fiber	1.5	0.15	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	3	E42	CM	60	Fiber	0.85	0.1	8.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	3	E42	CM	61	Fiber	0.85	0.1	8.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	3	E42	CM	62	Fiber	7.5	0.1	75	Chrysotile			ASTM_Total, ASTM_>=5.0
G5	3	E42	CM	63	Matrix 1-0	8	3	2.7	Chrysotile			ASTM_Total, ASTM_>=5.0

**ASTM D 6480-19 - Surface Wipes Raw Data -  
Final Report**

Job Number: 221076      SEA  
Client: Trinity Environmental

Ref. D6480-19

Report Number: 221076R01  
Date Received: 10/28/2022

Project Name: Asbestos Project- Dust Wipes 10-28-2022

Lab/Cor Sample No: S31  
Client Sample No: W31

Gr	No.	Loc.	ID	Prim	Tot	Class	Length	Width	Aspect	Analyte	Elements	Comment	Count Categories
G5	3	E42	CM		64	Fiber	3	0.08	37.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	3	E42	CM		65	Fiber	4	0.1	40	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	3	E42	CM		66	Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	3	E42	CM		67	Fiber	6	0.1	60	Chrysotile			ASTM_>=5.0, ASTM_Total
G5	3	E42	CM		68	Fiber	11	0.15	73.3	Chrysotile			ASTM_>=5.0, ASTM_Total
G5	3	E42	CM		69	Fiber	6.2	0.1	62	Chrysotile			ASTM_>=5.0, ASTM_Total
G5	3	E42	CM		70	Fiber	13.5	0.15	90	Chrysotile			ASTM_>=5.0, ASTM_Total
G5	3	E42	CM		71	Fiber	3.5	0.1	35	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	3	E42	CM		72	Fiber	4.5	0.1	45	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	3	E42	CM		73	Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	3	E42	CM		74	Fiber	2.5	0.1	25	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	3	E42	CM		75	Bundle	2	0.14	14.3	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	F41	CM		76	Fiber	6.5	0.15	43.3	Chrysotile			ASTM_>=5.0, ASTM_Total
G5	4	F41	CM		77	Fiber	2	0.15	13.3	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	F41	CM		78	Fiber	3	0.15	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	F41	CM		79	Fiber	4.5	0.1	45	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	F41	CM		80	Fiber	6.8	0.1	68	Chrysotile			ASTM_>=5.0, ASTM_Total
G5	4	F41	CM		81	Fiber	5	0.15	33.3	Chrysotile			ASTM_>=5.0, ASTM_Total
G5	4	F41	CM		82	Fiber	2	0.15	13.3	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	F41	CM		83	Fiber	2.5	0.1	25	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	F41	CM		84	Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	F41	CM		85	Fiber	3.5	0.1	35	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	F41	CM		86	Fiber	12.5	0.1	125	Chrysotile			ASTM_>=5.0, ASTM_Total
G5	4	F41	CM		87	Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	F41	CM		88	Fiber	7.5	0.1	75	Chrysotile			ASTM_>=5.0, ASTM_Total
G5	4	F41	CM		89	Fiber	6	0.1	60	Chrysotile			ASTM_>=5.0, ASTM_Total
G5	4	F41	CD		90	Bundle	3	0.15	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	F41	CM		91	Fiber	3.5	0.1	35	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	F41	CM		92	Fiber	2.5	0.1	25	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	F41	CM		93	Fiber	2.1	0.1	21	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	F41	CM		94	Bundle	22	0.2	110	Chrysotile			ASTM_>=5.0, ASTM_Total
G5	4	F41	CM		95	Fiber	1.5	0.1	15	Chrysotile			ASTM_Total, ASTM_0.5-5.0

**ASTM D 6480-19 - Surface Wipes Raw Data -  
 Final Report**

Job Number: 221076      SEA  
 Client: Trinity Environmental

Ref. D6480-19

Report Number: 221076R01  
 Date Received: 10/28/2022

Project Name: Asbestos Project- Dust Wipes 10-28-2022

Lab/Cor Sample No: S31  
 Client Sample No: W31

Gr	No.	Loc.	ID	Prim	Tot	Class	Length	Width	Aspect	Analyte	Elements	Comment	Count Categories
G5	4	F41	CM	96		Fiber	3.5	0.1	35	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	F41	CM	97		Fiber	4.95	0.1	49.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	F41	CD	98		Fiber	8.5	0.1	85	Chrysotile			ASTM_>=5.0, ASTM_Total
G5	4	F41	CM	99		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	F41	CM	100		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	F41	CM	101		Fiber	13.5	0.1	135	Chrysotile			ASTM_>=5.0, ASTM_Total
G5	4	F41	CD	102		Fiber	4.9	0.1	49	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	F41	CM	103		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	F41	CM	104		Fiber	2.5	0.15	16.7	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	F41	CM	105		Fiber	5.67	0.1	56.7	Chrysotile			ASTM_>=5.0, ASTM_Total
G5	4	F41	CM	106		Fiber	0.85	0.08	10.6	Chrysotile			ASTM_Total, ASTM_0.5-5.0

**ASTM D 6480-19 - Surface Wipes Raw Data -  
 Final Report**

Job Number: 221076      SEA  
 Client: Trinity Environmental

Ref. D6480-19

Report Number: 221076R01  
 Date Received: 10/28/2022

Project Name: Asbestos Project- Dust Wipes 10-28-2022

Lab/Cor Sample No: S32  
 Client Sample No: W32

Gr	No.	Loc.	ID	Prim	Tot	Class	Length	Width	Aspect	Analyte	Elements	Comment	Count Categories
G4	1	F34	CDQ	1		Fiber	0.85	0.1	8.5	Chrysotile	Mg, Si		ASTM_Total, ASTM_0.5-5.0
						ItemType	ItemNum			Confirmed	Comment		
						Brightfield	J69522BF						
						Diffraction	J69522DF			SB 11/4/2022	0.53nm ROW SPACING		
						Spectra	J69522SP			SB 11/4/2022			
G4	1	F34	CM	2		Fiber	0.8	0.08	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	F34	CM	3		Bundle	4.5	0.15	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	F34	CM	4		Bundle	3	0.15	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	F34	CM	5		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	F34	CM	6		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	F34	CM	7		Fiber	2	0.08	25	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	F34	CM	8		Fiber	15	0.1	150	Chrysotile			ASTM_>=5.0, ASTM_Total
G4	1	F34	CD	9		Fiber	9.5	0.1	95	Chrysotile			ASTM_>=5.0, ASTM_Total
G4	1	F34	CM	10		Fiber	0.8	0.1	8	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	F34	CM	11		Fiber	6.15	0.1	61.5	Chrysotile			ASTM_Total, ASTM_>=5.0
G4	1	F34	CM	12		Fiber	1	0.08	12.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	F34	CM	13		Fiber	4.5	0.1	45	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	F34	CD	14		Fiber	3	0.15	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	F34	CM	15		Matrix 1-0	2.5	1.5	1.7	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	F34	CM	16		Fiber	2.5	0.1	25	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	F34	CM	17		Fiber	7.6	0.1	76	Chrysotile			ASTM_Total, ASTM_>=5.0
G4	1	F34	CM	18		Fiber	3.25	0.1	32.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	F34	CM	19		Fiber	3.5	0.1	35	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	F34	CM	20		Fiber	22.5	0.1	225	Chrysotile			ASTM_>=5.0, ASTM_Total
G4	1	F34	CM	21		Bundle	1	0.15	6.7	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	F34	CM	22		Fiber	1	0.15	6.7	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	F34	CM	23		Fiber	5	0.1	50	Chrysotile			ASTM_>=5.0, ASTM_Total
G4	1	F34	CM	24		Fiber	4.35	0.1	43.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	F34	CM	25		Fiber	4	0.1	40	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	G33	CM	26		Fiber	5.5	0.1	55	Chrysotile			ASTM_>=5.0, ASTM_Total
G4	2	G33	CM	27		Fiber	4.85	0.15	32.3	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	G33	CM	28		Fiber	2.5	0.15	16.7	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	G33	CM	29		Fiber	1	0.08	12.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0

**ASTM D 6480-19 - Surface Wipes Raw Data -  
 Final Report**

Job Number: 221076      SEA  
 Client: Trinity Environmental

Ref. D6480-19

Report Number: 221076R01  
 Date Received: 10/28/2022

Project Name: Asbestos Project- Dust Wipes 10-28-2022

Lab/Cor Sample No: S32  
 Client Sample No: W32

Gr	No.	Loc.	ID	Prim	Tot	Class	Length	Width	Aspect	Analyte	Elements	Comment	Count Categories
G4	2	G33	CM		30	Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	G33	CD		31	Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	G33	CM		32	Fiber	8	0.15	53.3	Chrysotile			ASTM_>=5.0, ASTM_Total
G4	2	G33	CM		33	Fiber	2.5	0.1	25	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	G33	CM		34	Fiber	2	0.15	13.3	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	G33	CM		35	Fiber	5	0.15	33.3	Chrysotile			ASTM_>=5.0, ASTM_Total
G4	2	G33	CM		36	Matrix 2-0	12	12	1	Chrysotile			ASTM_>=5.0, ASTM_Total
G4	2	G33	CM		37	Fiber	1	0.15	6.7	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	G33	CM		38	Fiber	2.5	0.1	25	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	G33	CM		39	Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	G33	CM		40	Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	G33	CM		41	Fiber	17	0.15	113.3	Chrysotile			ASTM_>=5.0, ASTM_Total
G4	2	G33	CM		42	Fiber	2.5	0.1	25	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	G33	CM		43	Fiber	3	0.15	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	G33	CM		44	Fiber	4.8	0.15	32	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	G33	CM		45	Fiber	17.5	0.15	116.7	Chrysotile			ASTM_Total, ASTM_>=5.0
G4	2	G33	CM		46	Fiber	2	0.15	13.3	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	G33	CM		47	Fiber	1	0.15	6.7	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	G33	CM		48	Fiber	6.5	0.1	65	Chrysotile			ASTM_Total, ASTM_>=5.0
G5	3	C44	CM		49	Fiber	2.5	0.15	16.7	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	3	C44	CM		50	Fiber	12.5	0.1	125	Chrysotile			ASTM_Total, ASTM_>=5.0
G5	3	C44	CD		51	Fiber	5.15	0.1	51.5	Chrysotile			ASTM_Total, ASTM_>=5.0
G5	3	C44	CM		52	Matrix 1-0	5	2	2.5	Chrysotile			ASTM_Total, ASTM_>=5.0
G5	3	C44	CM		53	Bundle	12	0.15	80	Chrysotile			ASTM_Total, ASTM_>=5.0
G5	3	C44	CM		54	Fiber	2.5	0.1	25	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	3	C44	CM		55	Fiber	2.5	0.1	25	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	3	C44	CM		56	Fiber	4.85	0.15	32.3	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	3	C44	CM		57	Fiber	2	0.15	13.3	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	3	C44	CM		58	Fiber	0.85	0.1	8.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	3	C44	CM		59	Fiber	2.5	0.1	25	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	3	C44	CM		60	Fiber	5.5	0.1	55	Chrysotile			ASTM_>=5.0, ASTM_Total
G5	3	C44	CM		61	Fiber	1	0.15	6.7	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	3	C44	CM		62	Fiber	13	0.1	130	Chrysotile			ASTM_>=5.0, ASTM_Total

**ASTM D 6480-19 - Surface Wipes Raw Data -  
 Final Report**

Job Number: 221076      SEA  
 Client: Trinity Environmental

Ref. D6480-19

Report Number: 221076R01

Project Name: Asbestos Project- Dust Wipes 10-28-2022

Date Received: 10/28/2022

Lab/Cor Sample No: S32  
 Client Sample No: W32

Gr	No.	Loc.	ID	Prim	Tot	Class	Length	Width	Aspect	Analyte	Elements	Comment	Count Categories
G5	3	C44	CM	63		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	3	C44	CD	64		Bundle	1	0.2	5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	3	C44	CM	65		Fiber	2	0.1	20	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	3	C44	CM	66		Bundle	2.5	0.2	12.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	3	C44	CM	67		Matrix 1-0	6	4	1.5	Chrysotile			ASTM_>=5.0, ASTM_Total
G5	3	C44	CM	68		Fiber	13.5	0.1	135	Chrysotile			ASTM_>=5.0, ASTM_Total
G5	3	C44	CM	69		Fiber	2.7	0.1	27	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	3	C44	CM	70		Fiber	1.2	0.1	12	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	E43	CM	71		Fiber	1.2	0.1	12	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	E43	CD	72		Fiber	7.5	0.1	75	Chrysotile			ASTM_>=5.0, ASTM_Total
G5	4	E43	CM	73		Fiber	1.2	0.1	12	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	E43	CM	74		Fiber	4.5	0.15	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	E43	CM	75		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	E43	CM	76		Bundle	21	0.3	70	Chrysotile			ASTM_>=5.0, ASTM_Total
G5	4	E43	CM	77		Fiber	3.5	0.1	35	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	E43	CM	78		Fiber	13.5	0.1	135	Chrysotile			ASTM_>=5.0, ASTM_Total
G5	4	E43	CM	79		Fiber	9	0.1	90	Chrysotile			ASTM_>=5.0, ASTM_Total
G5	4	E43	CM	80		Fiber	1.2	0.1	12	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	E43	CM	81		Fiber	3.5	0.15	23.3	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	E43	CD	82		Fiber	12.5	0.1	125	Chrysotile			ASTM_>=5.0, ASTM_Total
G5	4	E43	CM	83		Fiber	2.35	0.1	23.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	E43	CM	84		Fiber	7.5	0.1	75	Chrysotile			ASTM_>=5.0, ASTM_Total
G5	4	E43	CM	85		Matrix 1-1	14	2	7	Chrysotile			ASTM_>=5.0, ASTM_Total
G5	4	E43	CM	86		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	E43	CD	87		Fiber	2.15	0.1	21.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	E43	CM	88		Fiber	15.5	0.1	155	Chrysotile			ASTM_Total, ASTM_>=5.0
G5	4	E43	CM	89		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	E43	CM	90		Fiber	4.25	0.1	42.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	E43	CM	91		Fiber	3	0.1	30	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	E43	CM	92		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	E43	CM	93		Fiber	2	0.15	13.3	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	E43	CM	94		Fiber	2	0.15	13.3	Chrysotile			ASTM_Total, ASTM_0.5-5.0

**ASTM D 6480-19 - Surface Wipes Raw Data -  
 Final Report**

Job Number: 221076      SEA  
 Client: Trinity Environmental

Ref. D6480-19

Report Number: 221076R01  
 Date Received: 10/28/2022

Project Name: Asbestos Project- Dust Wipes 10-28-2022

Lab/Cor Sample No: S32  
 Client Sample No: W32

Gr	No.	Loc.	ID	Prim Tot	Class	Length	Width	Aspect	Analyte	Elements	Comment	Count Categories
G5	4	E43	CM	95	Fiber	10.5	0.1	105	Chrysotile			ASTM_Total, ASTM_>=5.0

Lab/Cor Sample No: S33  
 Client Sample No: W33

Gr	No.	Loc.	ID	Prim Tot	Class	Length	Width	Aspect	Analyte	Elements	Comment	Count Categories
G4	1	F42			NSD							
G4	2	G41	CMQ	1	Fiber	0.85	0.1	8.5	Chrysotile	Mg, Si	DF Not Attainable	ASTM_Total, ASTM_0.5-5.0
					ItemType	ItemNum				Confirmed	Comment	
					Brightfield	J69523BF						
					Spectra	J69523SP				SB 11/4/2022		
G5	3	E51	CDQ	2	Matrix 1-1	7	4	1.8	Chrysotile	Mg, Si		ASTM_>=5.0, ASTM_Total
					ItemType	ItemNum				Confirmed	Comment	
					Brightfield	J69524BF						
					Diffraction	J69524DF				SB 11/4/2022	0.53nm ROW SPACING	
					Spectra	J69524SP				SB 11/4/2022		
G5	3	E51	CM	3	Fiber	11.5	0.1	115	Chrysotile			ASTM_>=5.0, ASTM_Total
G5	3	E51	CM	4	Fiber	2	0.15	13.3	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	E43			NSD							

**ASTM D 6480-19 - Surface Wipes Raw Data -  
 Final Report**

Job Number: 221076      SEA  
 Client: Trinity Environmental

Ref. D6480-19

Report Number: 221076R01  
 Date Received: 10/28/2022

Project Name: Asbestos Project- Dust Wipes 10-28-2022

Lab/Cor Sample No: S34  
 Client Sample No: W34

Gr	No.	Loc.	ID	Prim	Tot	Class	Length	Width	Aspect	Analyte	Elements	Comment	Count Categories
G4	1	C34	CDQ	1		Matrix 1-0	8.5	6	1.4	Chrysotile	Mg, Si		ASTM_>=5.0, ASTM_Total
						ItemType		ItemNum			Confirmed	Comment	
						Spectra		J69525SP			KM	11/4/2022	
						Diffraction		J69525DF			KM	11/4/2022	0.53nm ROW SPACING
						Brightfield		J69525BF					
G4	1	C34	CM	2		Matrix 1-0	6.5	5	1.3	Chrysotile			ASTM_>=5.0, ASTM_Total
G4	1	C34	CM	3		Matrix 1-0	1.2	0.3	4	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	E41	CM	4		Fiber	0.8	0.08	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	E41	CM	5		Matrix 1-0	4.5	3	1.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	E41	CM	6		Fiber	2.8	0.11	25.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	E41	CM	7		Matrix 2-1	7	1.2	5.8	Chrysotile			ASTM_>=5.0, ASTM_Total
G4	2	E41	CM	8		Fiber	1.6	0.1	16	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	E41	CM	9		Fiber	3.2	0.1	32	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	3	F42	CM	10		Fiber	0.9	0.1	9	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	3	F42	CM	11		Matrix 1-0	4	1.5	2.7	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	3	F42	CM	12		Fiber	0.55	0.1	5.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	3	F42	CM	13		Fiber	0.7	0.1	7	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	G41				NSD							

**ASTM D 6480-19 - Surface Wipes Raw Data -  
Final Report**

Job Number: 221076      SEA  
Client: Trinity Environmental

Ref. D6480-19

Report Number: 221076R01  
Date Received: 10/28/2022

Project Name: Asbestos Project- Dust Wipes 10-28-2022

Lab/Cor Sample No: S35  
Client Sample No: W35

Gr	No.	Loc.	ID	Prim	Tot	Class	Length	Width	Aspect	Analyte	Elements	Comment	Count Categories
G4	1	F42	CM	1		Fiber	5.7	0.1	57	Chrysotile			ASTM_>=5.0, ASTM_Total
G4	1	F42	CM	2		Fiber	5	0.1	50	Chrysotile			ASTM_>=5.0, ASTM_Total
G4	1	F42	CDQ	3		Fiber	1.2	0.1	12	Chrysotile	Mg, Si		ASTM_Total, ASTM_0.5-5.0
						ItemType	ItemNum		Confirmed	Comment			
						Brightfield	J69526BF						
						Diffraction	J69526DF		SB 11/4/2022	0.53nm ROW SPACING			
						Spectra	J69526SP		SB 11/4/2022				
G4	1	F42	CM	4		Fiber	9	0.1	90	Chrysotile			ASTM_>=5.0, ASTM_Total
G4	1	F42	CM	5		Matrix 1-0	2.5	1.8	1.4	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	F42	CM	6		Fiber	3.2	0.1	32	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	F42	CM	7		Fiber	1	0.15	6.7	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	F42	CM	8		Bundle	1.4	0.18	7.8	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	F42	CD	9		Bundle	1	0.12	8.3	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	1	F42	CM	10		Fiber	2.4	0.1	24	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	G41	CM	11		Bundle	1	0.2	5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G4	2	G41	CM	12		Fiber	0.65	0.1	6.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	3	E42	CM	13		Fiber	0.8	0.1	8	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	3	E42	CM	14		Fiber	2.4	0.1	24	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	3	E42	CM	15		Fiber	6.7	0.1	67	Chrysotile			ASTM_>=5.0, ASTM_Total
G5	3	E42	CM	16		Fiber	0.8	0.1	8	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	3	E42	CM	17		Fiber	0.8	0.15	5.3	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	F41	CM	18		Fiber	1.65	0.1	16.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	F41	CD	19		Bundle	7.5	0.2	37.5	Chrysotile			ASTM_>=5.0, ASTM_Total
G5	4	F41	CM	20		Fiber	1	0.15	6.7	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	F41	CM	21		Fiber	1	0.1	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	F41	CM	22		Fiber	1.15	0.1	11.5	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	F41	CM	23		Fiber	0.9	0.1	9	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	F41	CM	24		Fiber	4	0.15	26.7	Chrysotile			ASTM_Total, ASTM_0.5-5.0
G5	4	F41	CM	25		Bundle	2	0.2	10	Chrysotile			ASTM_Total, ASTM_0.5-5.0



221076

1 of 4

TEM / PCM / PLM Chain of Custody Record

**Lab/Cor, Inc**  
 7619 6th Ave NW  
 Seattle, WA 98117  
 Office (206) 781-0155  
 mail@labcor.net  
 www.labcor.net

**Client:** TRINITY ENVIRONMENTAL  
**Address:** 11 WAHSEE VALLEY ROAD  
 City, State, Zip: WAILUKU HI 96793  
**Contact:** CHRISTY GUSMAN  
 Phone: 808-870-3219 fax:  
 Email: Trinityenv808@gmail.com  
 Other info: Call or email for credit card pmt.

**Analytical Protocol:**  
 AHERA  
 Modified EPA II  
 EPA II (Yamate)  
 NIOSH 7402 (TEM)  
 NIOSH 7400 (PCM)  
 ASTM Dust  
 EPA 100.1/100.2  
 ISO: 10312  
 Bulk PLM  
 Bulk TEM  
 Quantitative  
 Semi-Quant  
 Qualitative

**Turnaround Time:**  
 3 days  
 2 days  
 24 hours\*  
 6 hr RUSH\*  
 Redeposit

Please Notify of price Difference

Project Name: \_\_\_\_\_ Project Number: \_\_\_\_\_ P.O. Number: \_\_\_\_\_

Sample Number	Sample Description	Sample Date	Sample Time			Flow Rate (lpm)			Total Volume	IWA	OWA	Blank
			On	Off	Total	Start	End	Avg				
W1	ASBESTOS TEM DUST WIPE	9/2/22										
W2												
W3												
W4												
W5												
W6												
W7												
W8												
W9												
W10												

**Internal Lab Use Only:**

Prelim Released: \_\_\_\_\_ Final Results Released: \_\_\_\_\_  
 By:  Fax  Phone  E-mail  Verbal By:  Fax  Phone  E-mail

Hardcopy Invoice Released: \_\_\_\_\_ Reviewed By: \_\_\_\_\_  
 Mail  E-mail

By signing below you are agreeing to comply with Lab/Cor's Requests, Tenders and Contracts.  
 Relinquished by: AW Date: 10-1-22 Time: 1:00 PM  
 Received by: [Signature] Date: 10/26/22 Time: 09:15

\* Call ahead for TATs of 24hrs or less

221076

2 of 4

TEM / PCM / PLM Chain of Custody Record

**Lab/Cor, Inc**  
 7619 6th Ave NW  
 Seattle, WA 98117  
 Office (206) 781-0155  
 mail@labcor.net  
 www.labcor.net

**Client:** Trinity Environmental  
**Address:** 11 Waihee Valley Rd  
**City, State, Zip:** Waikele HI 96793  
**Contact:** Christy Gusman  
**Phone:** 808-870-3299 **Fax:**  
**Email:** Trinityenv808@gmail.com  
**Other Info:**

**Analytical Protocol:**  
 AHERA  
 Modified EPA II  
 EPA II (Yanate)  
 NIOSH 7402 (TEM)  
 NIOSH 7400 (PCM)  
 ASTM Dust  
 EPA 100.1/100.2  
 ISO: 10312  
 Bulk PLM  
 Bulk TEM  
 Quantitative  
 Semi-Quant  
 Qualitative

**Turnaround Time:**  
 5 days  
 3 days  
 2 days  
 24 hours\*  
 6 hr RUSH\*  
 Redeposit

Project Name: \_\_\_\_\_

Project Number: \_\_\_\_\_

P.O. Number: \_\_\_\_\_

Sample Number	Sample Description	Sample Date	Sample Time			Flow Rate (pm)			Total Volume	IWA	OWA	Blank
			On	Off	Total	Start	End	Avg				
W 11	Asbestos tem dust wipe	01-12	N/A									
W 12												
W 13												
W 14												
W 15												
W 16												
W 17												
W 18												
W 19												
W 20												

**Internal Lab Use Only:**

Prelim Released: \_\_\_\_\_  
 By:  Fax  Phone  E-mail  Verbal

Final Results Released: \_\_\_\_\_  
 By:  Fax  Phone  E-mail

Hardcopy Invoice Released: \_\_\_\_\_  
 Reviewed By: \_\_\_\_\_

By signing below you are agreeing to comply with Lab/Cor's Requests, Tenders and Contracts:  
 Relinquished by: AKS Date: 10-2 Time: Feday  
 Received by: AKS Date: 10/2/02 Time: 09:00

\* Call ahead for TATs of 24hrs or less

Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Received by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

221076

3044

TEM / PCM / PLM Chain of Custody Record

**Lab/Cor, Inc**  
 7619 6th Ave NW  
 Seattle, WA 98117  
 Office (206) 781-0155  
 mail@labcor.net  
 www.labcor.net

**Client:** Trinity Environmental  
**Address:** 11 Waivee Valley Rd  
**City, State, Zip:** Wash State 44 96793  
**Contact:** Christy Gasman  
**Phone:** 808-870-3219 **Fax:** \_\_\_\_\_  
**Email:** Christy@trinityenv.com  
 Other Info: \_\_\_\_\_

**Analytical Protocol:**  
 AHERA  
 Modified EPA II  
 EPA II (Yamate)  
 NIOSH 7402 (TEM)  
 NIOSH 7400 (PCM)  
 ASTM Dust  
 EPA 100.1 / 100.2  
 ISO: 10312  
 Bulk PLM  
 Bulk TEM  
 Quantitative  
 Semi-Quant  
 Qualitative

**Turnaround Time:**  
 5 days  
 3 days  
 2 days  
 24 hours\*  
 6 hr RUSH\*  
 Redeposit

Project Name: \_\_\_\_\_

Project Number: \_\_\_\_\_

P.O. Number: \_\_\_\_\_

Sample Number	Sample Description	Sample Date	Sample Time			Flow Rate (pm)			Total Volume	IWA	OWA	Blank
			On	Off	Total	Start	End	Avg				
W21	TEM. Asbestos DASH Wipe	9-2	N/A									
W22												
W23												
W24												
W25												
W26												
W27												
W28												
W29												
W30												

**Internal Lab Use Only:**

Prelim Released: \_\_\_\_\_ Final Results Released: \_\_\_\_\_  
 By:  Fax  Phone  E-mail  Verbal By:  Fax  Phone  E-mail  
 Hardcopy Invoice Released: \_\_\_\_\_  
 Reviewed By: \_\_\_\_\_

By signing below you are agreeing to comply with Lab/Cor's Requests, Tenders and Contracts.  
 Relinquished by: OTR Date: 9-2 Time: Federal  
 Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Received by: OTR Date: 10/28/12 Time: OTIS  
 Received by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

*\* Call ahead for TATs of 24hrs or less*

221076

4 of 4

TEM / PCM / PLM Chain of Custody Record

**Lab/Cor, Inc**  
 7619 6th Ave NW  
 Seattle, WA 98117  
 Office (206) 781-0155  
 mail@labcor.net  
 www.labcor.net

**Client:** Trinity Environmental  
**Address:** 11 Wainee Valley Rd  
**City, State, Zip:** Bellevue WA 98003  
**Contact:** Christy Gusman  
**Phone:** 808-870-3219  
**Email:** Trinityenv808@gmail.com  
**Other Info:**

**Analytical Protocol:**  
 AHERA  
 Modified EPA II  
 EPA II (Yamato)  
 NIOSH 7402 (TEM)  
 NIOSH 7400 (PCM)  
 ASTM Dust  
 EPA 100.1/100.2  
 ISO: 10312  
 Bulk PLM  
 Bulk TEM  
 Quantitative  
 Semi-Quant  
 Qualitative

**Turnaround Time:**  
 5 days  
 3 days  
 2 days  
 24 hours\*  
 6 hr RUSH\*  
 Redeposit

Project Name: \_\_\_\_\_

Project Number: \_\_\_\_\_

P.O. Number: \_\_\_\_\_

Sample Number	Sample Description	Sample Date	Sample Time			Flow Rate (pm)			Total Volume	IWA	OWA	Blank
			On	Off	Total	Start	End	Avg				
W31	TEM ASBESTOS DUST WIPC	9.2	N/A									
W32												
W33												
W34												
W35	LAST ENTRY	LAST ENTRY										

**Internal Lab Use Only:**

Prelim Released: \_\_\_\_\_  
 By:  Fax  Phone  E-mail  Verbal

Final Results Released: \_\_\_\_\_  
 By:  Fax  Phone  E-mail

Hardcopy Invoice Released: \_\_\_\_\_  
 Reviewed By: \_\_\_\_\_

By signing below you are agreeing to comply with Lab/Cor's Requests, Tenders and Contracts.

Relinquished by: ASB Date: 9.2 Time: 1:00 PM  
 Received by: ASB Date: 9/2 Time: 8:15

Relinquished by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Received by: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

\* Call ahead for TATs of 24hrs or less

ARTICLE XIII – POTENTIALLY ASBESTOS-CONTAINING DUST CLEANUP AND  
LIMITED VISUAL ASSESSMENT

- 13.1 GENERAL - The work to be done under this Article consists of the furnishing of all labor, materials and equipment required to properly clean potentially asbestos-containing dust accumulated on all specified and readily accessible interior surfaces up to thirty (30) feet in height and conduct a post-cleaning visual assessment at the Port Allen Harbor Shed, Port Allen Harbor, Kauai.

The locations and sizes as shown on the plan are approximate and are included for bidding purposes.

- A. In general, the work includes, but is not necessarily limited to, the following:
1. Contractor shall conduct an initial survey and coordinate with the commercial tenants (south side) and Department of Navy (north side) regarding areas of work.
  2. Contractor shall set up a work perimeter and designate a decontamination area.
  3. Contractor shall use a High Efficiency Particulate Air (HEPA) vacuum and wet wipe/mop all readily accessible horizontal and vertical surfaces up to thirty (30) feet in height.
    - a. Horizontal surfaces are defined as girts, windowsills and frames, door heads/jambs/guides, beams, purlins, diagonal braces, structure roofs, office roofs, HVAC system, existing utilities attached to steel beams and girts (i.e., fire, electrical, etc.) and storage racks.
    - b. Vertical surfaces are defined as steel columns, window frames, door jambs/guides, beams, purlins, and diagonal braces.
  4. Contractor shall conduct Occupational Safety and Health Administration (OSHA) air-monitoring for asbestos and institute Negative Exposure Assessment for all workers.
  5. Contractor shall compile test results and provide a detailed Final Report using the air-monitoring results.
    - a. Testing laboratory responsible for analysis and report of airborne fiber concentration shall comply with HIOSH 12-145 and be a successful participant in the American Industrial Hygiene Association's Proficiency Analytical Testing program for phase contrast microscopy.

6. Contractor shall conduct a post-cleaning visual inspection of the cleaned horizontal surfaces performed by a certified State of Hawaii Asbestos Inspector and Project Monitor to confirm no visible dust, debris and/or residuals are present.
7. Contractor shall conduct additional cleaning if deemed necessary by the Harbors Division Environmental/Project Engineer.
8. All work shall be in accordance with the requirements of 29 Code of Federal Regulations 1926.1101, Hawaii Administrative Rules 12-145.1, and all applicable Environmental Protection Agency (EPA) regulations regarding asbestos.

B. Applicable Standards and Guidelines: All work under this contract, and other trade work conducted with the project, shall be done in strict accordance with all applicable federal, state, and local regulations, standards, and codes governing asbestos handling, treatment, removal, demolition, transportation, and disposal of asbestos, as required. The most recent edition of any relevant document shall be in effect. Where conflict or any inconsistency among requirements or with this shall govern these specifications, except that any more stringent specification or any specification providing greater protection against asbestos exposure, injury, loss, or liability shall control to the extent permitted by regulation. Any question regarding conflict or inconsistency between specifications and/or regulations should be referred to the Environmental/Project Engineer. Ignorance of the above requirements or any applicable State and local regulations resulting in additional cost to the Contractor shall not be paid by the State.

Specific Statutory and Regulatory Requirements include, but are not limited to the following:

1. PL 99-519, Toxic Substance Control Act, Title II, Asbestos Hazard Emergency Response Act (AHERA).
2. 40 CFR Part 61, National Emission Standards for Hazardous Air Pollutants (NESHAP) Subpart A (General Provisions) and Subpart M (National Asbestos Standards).
3. 40 CFR Part 763 Appendix A to Subpart E, Interim Transmission Microscopy Analytical Methods – Mandatory and Non-mandatory – and mandatory Section to Determine Completion of Response Actions, October 30, 1987.
4. 40 CFR Part 763, Asbestos Model Accreditation Plan [59 CFR 5236] (February 3, 1994).
5. 40 CFR Part 172, Transportation, Hazardous Materials Regulations.

6. Occupational Safety and Health Administration (OSHA) 29 CFR 1926.58, General Construction Standard.
7. OSHA 29 CFR 1926.1101, Asbestos.
8. Chapter 12-145, 12-145.1, Hawaii Occupational Safety and Health Division (HIOSH) Construction Standards, Asbestos.
9. Chapter 12-206, HIOSH Health Standards, Asbestos.
10. Chapter 16-77, Subchapter 19, DCCA Asbestos Contractors.
11. Hawaii Revised Statutes, Sections 321-11(26), 321013(a)(I) and 321-15.
12. 29 CFR 1910.134, General Industry Standard for Respiratory Protection, OSHA, DOL.
13. 29 CFR 1910.2, Access to Employee Exposure and Medical Records, OSHAL, DOL.
14. 29 CFR 1910.1200, Hazard Communications, OSHA, DOL.
15. Guidance for Controlling Asbestos-Containing Materials in Buildings, (Purple Book), EPA.
16. 29 CFR 1910.145, Specifications for Accident Prevention, Signs, and Tags, OSHA, DOL.
17. American National Standards Institute, Inc. (ANSI) Z88.2-92 Practice for Respiratory Protection.
18. Hawaii Administrative Rules (HAR) 11-501, Asbestos Requirements.
19. HAR 11-503, Fees for Asbestos Removal and Certifications.
20. HAR 11-504, Asbestos Abatement Certification Program.

### 13.2 MATERIALS

- A. HEPA Vacuums: HEPA vacuums shall conform to ANSI Z9.2-79, Fundamentals Governing the Design and Operation of Local Exhaust Systems as applicable to this project.
- B. Plastic Sheeting: Minimum thickness is 6-mil polyethylene film.

- C. Plastic Bags: Minimum thickness is 6-mil polyethylene film labeled as specified hereinafter.
- D. Tapes: Tape shall be capable of sealing joints of adjacent sheets of polyethylene sheets to finished or unfished surfaces of dissimilar materials and capable of adhering under both dry and wet conditions, including the use of amended water. Silver cloth duct tape, minimum two (2) inches wide, red or NATO orange tape, minimum two (2) inches wide for exit arrows; and double-faced foam tapes.
- E. Adhesives: Adhesives shall be capable of sealing lapped sheets of polyethylene together or to finished or unfished surfaces of dissimilar materials. Adhesives shall adhere under both dry and wet conditions.
- F. Warning Labels and Signs: As required by OSHA regulations 29 CFR 1926.1101 and HIOSH 12-145.1 Labels for asbestos debris must also meet the requirements of HIOSH 12-145.1. The generator's name and address must be attached or included in bagged or wrapped asbestos debris.
- G. Personal Protection Equipment: The Contractor shall have all required sets of coveralls required for this project on island prior to the start of work. There will be no time extension for the unavailability of coveralls or related equipment.
1. The Contractor acknowledges he alone is responsible for instruction and for enforcing personnel protection requirements and that these specifications provide only a minimum acceptable standard.
  2. Provide workers with personally issued and marked air purifying respirators (including filtering facepieces) with filters certified by NIOSH, under 30 CFR Part 11 and 42 CFR Part 84, and accepted by OSHA and HIOSH. All work related to the removal, wrapping, and bagging of asbestos containing material shall be performed in NIOSH-approved half-face respirators equipment with HEPA cartridges.
  3. Workers loading and unloading asbestos debris at the project site and landfill shall wear NIOSH-approved respirators that provide adequate respiratory protection.
  4. No bearded or unshaven person(s) shall be allowed on site to perform asbestos work.
  5. Provide workers with sufficient sets of disposable protective full body clothing consisting of material impenetrable by asbestos fibers and of the proper size for everyone to accommodate movement without tearing. Such clothing shall consist of full body coveralls, footwear, gloved and headgear. Provide hard hats as required by applicable safety regulations. Disposable clothing shall not be allowed to accumulate and shall be placed

in plastic bags, inside a drum, and labeled as asbestos-contaminated waste. Protective clothing shall be worn by all personnel within the work area from the start of removal work until the work area has received its final clearance.

6. No visitors shall be allowed in work areas, except as authorized by the Environmental/Project Engineer. Provide authorized visitors with suitable disposable protective full body clothing consisting of coveralls of the proper size to accommodate movement without tearing. Such clothing shall consist of full body coveralls, shoes with shoe covers, gloves, and headgear, including in his bid the expense of a total of two (2) changes of clothing per day for each day of asbestos work for visitor's use. The quantity shall accumulate and may be used at any time during cleanup work at the discretion of the Environmental/Project Engineer.
7. Additional safety equipment (e.g., hardhats meeting the requirements of ANSI Z89.1-1981, eye protection meeting the requirements of ANSI Z87.1-1979, safety shoe covering meeting the requirements of ANSI-Z41.1-1967, disposable PVC gloves), shall be provided to all workers and authorized visitors as needed.

### 13.3 CONSTRUCTION

- A. All work shall be executed in an orderly and careful manner with due consideration for all existing items to be cleaned. The Contractor shall take precautions to prevent damage to items indicated to be cleaned. The Contractor shall repair any damage to items indicated to be cleaned at no cost to the State.
- B. All waste generated (disposal rags, coverall, gloves, plastic vacuum bags, etc.) shall be double bagged in 6-mil polyethylene bags, double goose-necked, duct taped and properly disposed of at an approved asbestos disposal site.
- C. Noise and Dust Control - The following noise and dust control measures are listed to reduce the negative impacts to the tenants of the Port Allen Harbor shed during the cleanup activities.
  1. The Contractor shall coordinate with the Harbors Division Environmental/Project Engineer the dates and times when cleanup work will produce excessive sound levels. The Contractor shall schedule work around tenant operations or provide other measures to minimize noise during construction activities when required.
  2. The Contractor shall take appropriate action to check the spread of dust and to avoid the creation of nuisance in the surrounding area. Provide dust screens, tarpaulins, or similar barriers to prevent damage to and dust from entering the adjacent structures. Comply with all dust regulations imposed by local air pollution agencies.

3. The Contractor shall obtain approval from the Harbors Division Environmental/Project Engineer for proposed noise and dust control measures to be implemented during the cleanup activities prior to placement.
- D. Contractor shall notify the Harbors Division Environmental/Project Engineer if existing areas will not be accessible during cleanup work.
- E. Removal and Disposal – The Contractor shall be responsible for handling, transporting and disposal of all potentially asbestos-containing dust debris from the subject property at no additional cost to the State.
1. Title of Materials – Title to all materials to be removed, except as specified otherwise, is vested in the Contractor upon approval by the Harbors Division Environmental/Project Engineer of the Contractor’s cleaning procedures and authorization to begin cleanup. The State will not be responsible for the condition or loss of, or damage to, such property after notice to proceed.
  2. Removed material shall be disposed of away from the project site in a lawful manner at no cost to the State. The Contractor will not be allowed to deposit removed material into trash dumpsters owned by the State or tenants.
  3. Remove and transport debris and rubbish in a manner that will prevent spillage on pavements, streets, or adjacent areas. Comply with Federal, State, and local hauling and disposal regulations.

13.4 PAYMENT - Payment for Potentially Asbestos-Containing Dust Cleanup and Limited Visual Assessment shall be made as described in Article X of these Specifications.

ARTICLE XIV – TEMPORARY WATER POLLUTION, DUST, AND EROSION CONTROL  
For Project NOT Subject to NPDES NOI-C Permit

- 14.1 DESCRIPTION - This section is required for all work, including the Contractor's storage sites. It describes the following:
- A. A detailed site-specific Best Management Practice (BMP) Plan including diagrams and narratives; constructing, maintaining, and repairing temporary water pollution, dust, and erosion control measures at the project site including local material sources, work areas and access roads; removing and disposing of wastes and hazardous wastes; and control of fugitive dust (defined as uncontrolled emission of solid airborne particulate matter from any source other than combustion). Additionally, all projects at Honolulu, Kalaeloa Barbers Point, and Kahului Harbors are subject to State of Hawaii, Department of Transportation (HDOT) Harbors Division, Stormwater Management Plan (SWMP) requirements, unless exempted, and are subject to Harbors Stormwater BMP inspections. If any requirement conflicts with those administered by State of Hawaii, Department of Health (HDOH), the Contractor shall follow the more stringent requirement.
  - B. Compliance with applicable federal and other state permit conditions.
  - C. Work associated with dewatering and hydrotesting activities and compliance with conditions of the NPDES general permit coverage authorizing discharges associated with construction activity dewatering and hydrotesting.
- 14.2 GENERAL REQUIREMENTS - In order to provide for the control of water pollution, dust, and erosion arising from the construction activities of the Contractor and his subcontractors in the performance of this contract, the work performed shall comply with all applicable federal, state, and local laws and regulations concerning water pollution control including, but not limited to, the following regulations.
- A. State of Hawaii, HDOH, Hawaii Administrative Rules (HAR) Chapter 11-54 – Water Quality Standards and Chapter 11-55 – Water Pollution Control.
  - B. For projects at Honolulu, Kalaeloa Barbers Point, and Kahului Harbors ONLY, HDOT Harbors Division, Stormwater Management Plan.
  - C. For projects at Honolulu, Kalaeloa Barbers Point, and Kahului Harbors ONLY, City and County of Honolulu (CCH), Rules Relating to Water Quality.
  - D. For projects at Honolulu, Kalaeloa Barbers Point, and Kahului Harbors ONLY, CCH, Storm Water BMP Manual for Construction.
  - E. 40 CFR Part 110, Environmental Protection Agency (EPA), Discharge of Oil.
  - F. 40 CFR Part 117, EPA, Determination of Reportable Quantities for Hazardous Substances.

- G. 40 CFR Part 261, EPA, Identification and Listing of Hazardous Waste.
- H. 40 CFR Part 302, EPA, Designation, Reportable Quantities, and Notification.
- I. 49 CFR Part 171, U.S. Department of Transportation, Hazardous Materials Regulations.

14.3 MATERIALS - Materials shall conform to the following when applicable.

- A. Slope Drains. Slope drains may be constructed of pipe, fiber, mats, erosion control fabric, geotextiles, rubble, Portland cement concrete, bituminous concrete, plastic sheets, or other materials acceptable to the Environmental/Project Engineer.
- B. Grass. Grass shall be quick growing species such as rye grass, Italian grass, or cereal grasses. Grass shall be suitable to the area and provide a temporary cover that will not compete later with permanent cover. Alternative grasses are allowable if acceptable to the Environmental/Project Engineer.
- C. Fertilizer and Soil Conditions. Fertilizer and soil conditioners shall be a standard commercial grade acceptable to the Environmental/Project Engineer.
- D. Silt Fences. Silt fences shall be synthetic filter fabric mounted on posts and embedded in compacted ground in compliance with American Society for Testing and Materials (ASTM) D6462-03, Standard Practice for Silt Fence Installation.
- E. Berms. Berms shall be gravel or sand wrapped with geotextile material. Alternate materials are allowable if acceptable to the Environmental/Project Engineer.
- F. Alternate materials or methods to control, prevent, remove, and dispose of pollution are allowable if acceptable to the Environmental/Project Engineer.

14.4 CONSTRUCTION

- A. Preconstruction Requirements
  - 1. Temporary Water Pollution, Dust, and Erosion Control Meeting. The contractor shall be required to submit a site-specific BMP Plan to the Environmental/Project Engineer and address all comments by the Environmental/Project Engineer. After the Plan is accepted in writing by the Environmental/Project Engineer, the Contractor shall schedule a meeting with the Environmental/Project Engineer before the start of construction work to discuss the sequence of work, and plans and proposals for water pollution, dust, and erosion control.

2. Temporary Water Pollution, Dust, and Erosion Control Submittals. The Contractor shall submit the site-specific BMP Plan to the Environmental/Project Engineer prior to the start of work for review of compliance with this Article. A site-specific BMP Plan template is available online at <https://hidot.hawaii.gov/harbors/malamaikeawakai/>, under **HDOT Harbors Construction and Post-Construction Programs – Documents and Forms**.

a. Written site-specific BMP Plan shall include the following as applicable:

- 1) Identification of potential pollutants and their sources and other factors that may cause water pollution, dust, and erosion.
- 2) A list of all material and heavy equipment to be used during construction. Vehicles and equipment shall be well maintained and free from any type of fluid leaks.
- 3) Construction schedule.
- 4) Name(s) of specific individual(s) designated responsible for water pollution, dust and erosion controls on the project site. Include home, business, and cellular telephone numbers, fax numbers, and e-mail addresses.
- 5) Descriptions of the methods and devices used to eliminate certain pollutants (e.g., wastewater, fuels, solvents, detergents, toxic or hazardous substances) from discharging into state waters and drainage systems and provide details of BMP(s) to be installed or utilized. Indicate approximate dates when BMP(s) will be installed and removed.
- 6) Description of maintenance and subsequent removal of BMP(s).
- 7) Method(s) of removal and disposal of solid and regulated hazardous wastes encountered or generated during construction. The Contractor is advised to procure regulated hazardous materials on an as-needed basis, as feasible. All excess regulated hazardous materials at the conclusion of this project shall remain the property of the Contractor and shall be removed from HDOT Harbors Division property upon the completion of the project.

- 8) Method(s) of removing and disposing concrete and asphalt pavement cutting slurry, concrete curing water, and hydro demolition water.
- 9) Method(s) of containing, removing and disposing of demolition dust and debris to minimize the discharge of these pollutants into state waters and drainage systems.
- 10) Spill kit contents and location.
- 11) Fugitive dust control, including dust from grinding, sweeping, or brooming off operations or combination thereof.
- 12) Method(s) of storing and handling of regulated hazardous materials (e.g., oils, paints) and other products used for the project. Safety Data Sheets (SDS) for all regulated hazardous materials used during construction activities shall be kept on-site throughout the duration of the project and readily available upon inspection. All containers of regulated hazardous materials should be provided with secondary containment during storage. Regulated hazardous materials not specifically needed in the execution of this project shall not be brought or stored on site. As feasible, the Contractor is encouraged to use products that do not contain any regulated constituents. The use of green products is encouraged.
- 13) Method(s) of concrete washout/waste control.
- 14) Method(s) of managing material stockpiles to minimize erosion and dust.
- 15) Good housekeeping practices.
  - a) Minimize tracking of sediment offsite from project entrances and exits.
  - b) Litter management. The Contractor shall have a comprehensive housekeeping policy and shall actively enforce housekeeping requirements. Housekeeping items include, but are not limited to, cups, cans, bottles and other forms of lightweight litter, unattended containers of hazardous materials, concrete debris (e.g., dust, chips, and other sweepings), and discarded articles of disposable

Personal Protective Equipment (e.g., earplugs, dust masks, and gloves). Employees who are specifically tasked with housekeeping duties shall be identified by name.

- c) The Contractor should provide and maintain covered waste receptacles. No construction debris or other refuse that is generated as a result of project activities is to be disposed in HDOT Harbors Division-owned waste receptacles.
- 16) Provide plan(s)/drawing(s) showing location of followings when applicable:
- a) Boundaries of the property and the locations where construction activities will occur, including:
    - i. Locations where earth-disturbing activities will occur (noting any sequencing of construction activities);
    - ii. Approximate slopes and drainage patterns with flow arrows before and after the construction;
    - iii. Locations where sediment, soil, or other construction materials will be stockpiled;
    - iv. Locations of any contaminated soil or contaminated soil stockpiles;
    - v. Locations of any crossings of state waters;
    - vi. Designated points on the site where vehicle will exit onto paved roads;
    - vii. Locations of structures and other impervious surfaces upon completion of construction; and
    - viii. Locations of construction support activity areas.
  - b) Locations of all state waters, including wetlands and indicate which water bodies are listed as impaired.

- c) The boundary lines of any natural buffers.
  - d) Topography of the site, existing vegetative cover, and features (e.g., forest, pasture, pavement, structures), and drainage pattern(s) of stormwater onto, over, and from the site property before and after major grading activities.
  - e) Stormwater discharge locations, including locations of any storm drain inlets on-site and in the immediate vicinity of the site to receive stormwater runoff from the project; and locations where stormwater will be discharging to state waters (including wetlands).
  - f) Locations of all potential pollutant-generating activities.
  - g) Locations of stormwater control measures; and
  - h) Locations where chemicals will be used and stored.
- 17) Procedures for notification of appropriate facility personnel, emergency response agencies, and regulatory agencies where a leak, spill, or other release containing a hazardous substance or oil in an amount equal to or in excess of a reportable quantity established under either 40 CFR Parts 110, 117, or 302, occurs during a 24-hour period. Contact information must be in locations that are readily accessible and available.
- 18) The Contractor shall date and sign the site-specific BMP Plan.
- b. The Contractor shall keep the accepted Plan on-site or at an easily accessible location throughout the duration of the project. Revisions to the Plan shall be included with the original plan. The Contractor shall obtain written acceptance from the Environmental/Project Engineer before revising BMP. An updated Plan shall be kept on-site throughout the remainder duration of the project.

The Contractor shall follow guidelines in the “*The City and County of Honolulu Storm Water Best Management Practice Manual – Construction*,” (dated November 2011) in developing, installing, and maintaining BMP for the project. Additionally, the Contractor

shall follow applicable CCH *Rules Relating to Water Quality for all projects at Honolulu, Kalaeloa Barbers Point, and Kahului Harbors*, and use respective Soil Erosion Guidelines for other Maui, Kauai and Hawaii County projects. Information can be found at the respective County websites.

B. Construction Requirements are as follows.

1. No work shall be allowed to begin until submittals detailed in Subsection 14.4 A.2 – Temporary Water Pollution, Dust, and Erosion Control Submittals are completed and accepted in writing by the Environmental/Project Engineer. The Contractor shall prevent pollutants from entering state waters. These efforts shall address areas such as those that drain to water, are over water, or drain to storm drains adjacent and in the area of the project site. The Contractor shall design, operate, implement, and maintain the Plan to ensure that stormwater discharges associated with construction activities will not cause or contribute to a violation of applicable state water quality standards.
2. All projects at Honolulu, Kalaeloa Barbers Point, and Kahului Harbors are subject to HDOT Harbors Division SWMP requirements for construction at those harbors unless the project meets a specified exemption class. The requirements include, but are not limited to, construction site BMP initial, recurring (i.e., every two weeks from October through March and every two months otherwise), and final inspections at the frequencies outlined in the SWMP. No grading or land disturbance activities are allowed until the initial BMP inspection is completed and required BMPs are found to be properly installed.
3. Address all comments received from the Environmental/Project Engineer.
4. Modify and resubmit plans and construction schedules to correct conditions that develop during construction which were unforeseen during the design and pre-construction stages.
5. Coordinate temporary control provisions with permanent control features throughout the construction and post-construction period.
6. BMP shall be in place and operational until the construction is completed and accepted by Harbors.
7. Install and maintain either or both stabilized construction entrances and wheel washes to minimize tracking of dirt and mud onto roadways. Restrict traffic to stabilized construction areas only. Clean dirt, mud, or other material tracked onto the road immediately. Modify stabilized construction entrances to prevent mud from being tracked onto roadways.

8. Chemicals may be used as soil stabilizers for either or both erosion and dust control if acceptable to the Environmental/Project Engineer.
9. Cover exposed surface of materials completely with tarpaulin or similar device when transporting aggregate, soil, excavated material or material that may be a source of fugitive dust.
10. Cleanup and remove any pollutant that can be attributed to the Contractor.
11. Install or modify BMP due to change in the Contractor's means and methods, or for omitted condition that should have been allowed for in the accepted site-specific BMP Plan or a BMP that replaces an accepted site-specific BMP that is not satisfactorily performing.
12. Properly maintain BMP.
13. Remove, replace or relocate any BMP that must be removed, replaced or relocated due to potential or actual flooding, or potential danger or damage to the project or public.
14. The Contractor's designated representative specified in Subsection 14.4 A.2.a.4 shall address any BMP concerns brought up by the Environmental/Project Engineer within 24 hours of notification, including weekends and holidays. Should the Contractor fail to satisfactorily address these concerns, the Environmental/Project Engineer reserves the right to employ outside assistance or use the Environmental/Project Engineer's own labor forces to provide necessary corrective measures. The Environmental/Project Engineer will charge the Contractor such incurred costs plus any associated Project Engineering costs. The Environmental/Project Engineer will make appropriate deductions from the Contractor's monthly progress estimate. Failure to apply BMP shall result in either or both the establishment and increase in the amount of retainage due to unsatisfactory progress or withholding of monthly progress payment. Continued failure to apply BMP may result in one or more of the following: The Contractor being fully responsible for all additional costs incurred by HDOT Harbors Division including any fines levied by HDOH, suspension of the Contract, or cancellation of the Contract.

- C. Hydrotesting Activities. If work includes removing, relocation or installing waterlines, and the Contractor elects to flush waterline or discharge hydrotesting effluent into state waters or drainage systems, obtain a Notice of General Permit Coverage (NGPC) authorizing discharges associated with hydrotesting waters from the HDOH Clean Water Branch (CWB). If a permit is required, prepare and

submit permit application (CWB-Notice of Intent (NOI) Form F) to the HDOH CWB.

Do not begin hydrotesting activities until the HDOH CWB has issued a NGPC. Hydrotesting operations shall be in accordance with conditions in the NGPC. Submit a copy of the NPDES Hydrotesting Waters Application and Permit to the Environmental/Project Engineer.

- D. Dewatering Activities. If excavation or backfilling operations requires dewatering, and the Contractor elects to discharge dewatering effluent into state waters or existing drainage systems, the Contractor shall obtain an NGPC authorizing discharges associated with construction activity dewatering from the HDOH CWB. If a permit is required, prepare and submit permit application (CWB-NOI Form G) to the HDOH CWB.

Do not begin dewatering activities until the HDOH-CWB has issued an NGPC. Conduct dewatering operations in accordance with the conditions in the NGPC. Submit a copy of the NPDES Dewatering Application and Permit to the Environmental/Project Engineer.

- 14.5 PAYMENT - Payment for Temporary Water Pollution, Dust, and Erosion Control shall not be measured and paid for separately but shall be considered incidental to the applicable items described in Article X of these Specifications.

No progress payment will be authorized until the Environmental/Project Engineer accepts in writing the site-specific BMP Plan or when the Contractor fails to maintain the project site in accordance with the accepted BMP Plan.

The Contractor shall reimburse the State of Hawaii within 30-day for the full amount of all outstanding costs incurred by the State of Hawaii for all citations or fines received as a result of the Contractor's non-compliance with regulations.

ARTICLE XV – PROJECT PHOTOGRAPHS



Photo 1: Typical Wall Section



Photo 2: Typical Windows and Door Heads/Jambs/Guides



Photo 3: Office Roof



Photo 4: Harbor Agent Office Roof



Photo 5: HVAC System



Photo 6: Structure Roofs



Photo 7: Typical Storage Racks

## **Requirements of Chapter 104, HRS Wages and Hours of Employees on Public Works Law**

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Chapter 104, HRS, applies to every public works construction project over \$2,000, regardless of the method of procurement or financing (purchase order, voucher, bid, contract, lease arrangement, warranty, SPRB).

### **Rate of Wages for Laborers and Mechanics**

- Minimum prevailing wages (basic hourly rate plus fringe benefits), as determined by the Director of Labor and Industrial Relations and published in wage rate schedules, shall be paid to the various classes of laborers and mechanics working on the job site. [§104-2(a), (b), Hawaii Revised Statutes (HRS)]
- If the Director of Labor determines that prevailing wages have increased during the performance of a public works contract, the rate of pay of laborers and mechanics shall be raised accordingly. [§104-2(a) and (b), HRS; §12-22-3(d) Hawaii Administrative Rules (HAR)]

### **Overtime**

- Laborers and mechanics working on a Saturday, Sunday, or a legal holiday of the State or more than eight hours a day on any other day shall be paid overtime compensation at not less than one and one-half times the basic hourly rate plus the cost of fringe benefits for all hours worked. If the Director of Labor determines that a prevailing wage is defined by a collective bargaining agreement, the overtime compensation shall be at the rates set by the applicable collective bargaining agreement [§§104-1, 104-2(c), HRS; §12-22-4.1, HAR]

### **Weekly Pay**

- Laborers and mechanics employed on the job site shall be paid their full wages at least once a week, without deduction or rebate, except for legal deductions, within five working days after the cutoff date. [§104-2(d), HRS]

### **Posting of Wage Rate Schedules**

- Wage rate schedules with the notes for prevailing wages and special overtime rates, shall be posted by the contractor in a prominent and easily accessible place at the job site. A copy of the entire wage rate schedule shall be given to each laborer and mechanic employed under the contract, except when the employee is covered by a collective bargaining agreement. [§104-2(d), HRS]

### **Withholding of Accrued Payments**

- If necessary, the contracting agency may withhold accrued payments to the contractor to pay to laborers and mechanics employed by the contractor or subcontractor on the job site any difference between the wages required by the public works contract or specifications and the wages received. [§104-2(e), HRS]

### **Certified Weekly Payrolls and Payroll Records**

- A certified copy of all payrolls shall be submitted weekly to the contracting agency. [§104-3(a), HRS; §12-22-10, HAR]
- The contractor is responsible for the submission of certified copies of the payrolls of all subcontractors. The certification shall affirm that the payrolls are correct and complete, that the wage rates listed are not less than the applicable rates contained in the applicable wage rate schedule, and that the classifications for each laborer or mechanic conform with the work the laborer or mechanic performed. [§104-3(a), HRS; §12-22-10, HAR]
- Payroll records shall be maintained by the contractor and subcontractors for three years after completion of construction. The records shall contain: [§104-3(b), HRS; §12-22-10, HAR]
  - the name and home address of each employee
  - the last four digits of social security number
  - a copy of the apprentice's registration with DLIR
  - the employee's correct classification
  - rate of pay (basic hourly rate + fringe benefits)
  - itemized list of fringe benefits paid
  - daily and weekly hours worked
  - weekly straight time and overtime earnings
  - amount and type of deductions
  - total net wages paid
  - date of payment
- Records shall be made available for examination by the contracting agency, the Department of Labor and Industrial Relations (DLIR), or any of its authorized representatives, who may also interview employees during working hours on the job. [§§104-3(c), 104-22(a), HRS; §12-22-10, HAR]

## Termination of Work on Failure to Pay Wages

- If the contracting agency finds that any laborer or mechanic employed on the job site by the contractor or any subcontractor has not been paid prevailing wages or overtime, the contracting agency may, by written notice to the contractor, terminate the contractor's or subcontractor's right to proceed with the work or with the part of the work in which the required wages or overtime compensation have not been paid. The contracting agency may complete this work by contract or otherwise, and the contractor or contractor's sureties shall be liable to the contracting agency for any excess costs incurred. [§104-4, HRS]

## Apprentices

- Apprentice wage rates apply to contractors who are a party to a bona fide apprenticeship program which has been registered with the DLIR. In order to be paid apprentice rates, apprentices must be parties to an agreement either registered with or recognized as a USDOL nationally approved apprenticeship program by the DLIR, Workforce Development Division, (808) 586-8877, and the apprentice must be individually registered by name with the DLIR. [§12-22-6(1) and (2), HAR]
- The number of apprentices on any public work in relation to the number of journeyworkers in the same craft classification as the apprentices employed by the same employer on the same public work may not exceed the ratio allowed under the apprenticeship standards registered with or recognized by the DLIR. A registered or recognized apprentice receiving the journeyworker rate will not be considered a journeyworker for the purpose of meeting the ratio requirement. [§12-22-6(3), HAR]

## Enforcement

- To ensure compliance with the law, DLIR and the contracting agency will conduct investigations of contractors and subcontractors. If a contractor or subcontractor violates the law, the penalties are: [§104-24, HRS]
  - First Violation Equal to 25% of back wages found due or \$250 per offense up to \$2,500, whichever is greater.
  - Second Violation Equal to amount of back wages found due or \$500 for each offense up to \$5,000, whichever is greater.
  - Third Violation Equal to two times the amount of back wages found due or \$1,000 for each offense up to \$10,000, whichever is greater; and  
**Suspension** from doing any new work on any public work of a governmental contracting agency for three years.
- A violation would be deemed a second violation if it occurs within two years of the **first notification of violation**, and a third violation if it occurs within three years of **the second notification of violation**. [§104-24, HRS; §12-22-25(b), HAR]
- **Suspension:** For a first or second violation, the department shall immediately suspend a contractor who fails to pay wages or penalties until all wages and penalties are paid in full. For a third violation, the department shall penalize and suspend the contractor as described above, **except that if the contractor continues to violate the law, then the department shall immediately suspend the contractor for a mandatory three years. The contractor shall remain suspended until all wages and penalties are paid in full.** [§§104-24, 104-25, HRS]
- **Suspension:** Any contractor who fails to make payroll records accessible or provide requested information within 10 days, or fails to keep or falsifies any required record, shall be assessed a penalty including suspension as provided in Section 104-22(b) and 104-25(a)(3), HRS. [§104-3(c), HRS; §12-22-26, HAR]
- If any contractor interferes with or delays any investigation, the contracting agency shall withhold further payments until the delay has ceased. Interference or delay includes failure to provide requested records or information within ten days, failure to allow employees to be interviewed during working hours on the job, and falsification of payroll records. The department shall assess a penalty of \$10,000 per project, and \$1,000 per day thereafter, for interference or delay. [§104-22(b), HRS; §12-22-26, HAR]
- Failure by the contracting agency to include in the provisions of the contract or specifications the requirements of Chapter 104, HRS, relating to coverage and the payment of prevailing wages and overtime, is not a defense of the contractor or subcontractor for noncompliance with the requirements of this chapter. [§104-2(f), HRS]

**For additional information, visit the department's website at <http://labor.hawaii.gov/wsd> or contact any of the following DLIR offices:**



Oahu (Wage Standards Division).....(808) 586-8777  
Hawaii Island .....(808) 974-6464  
Maui and Kauai .....(808) 243-5322

STATE OF HAWAII

DEPARTMENT OF TRANSPORTATION

HONOLULU, HAWAII

**PROPOSAL**

PROPOSAL TO THE  
STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION

PROJECT: POTENTIALLY ASBESTOS-CONTAINING DUST  
CLEANUP AND LIMITED VISUAL ASSESSMENT,  
PORT ALLEN HARBOR, KAUAI, HAWAII

PROJECT NO.: S70150

COMPLETION TIME: ONE HUNDRED EIGHTY (180) calendar days from the  
date indicated in the Notice to Proceed from the  
Department.

LIQUIDATED DAMAGES: ONE HUNDRED FIFTY DOLLARS (\$150.00) for each  
and every calendar day which the Contractor has delayed the  
completion of this project.

PROJECT MANAGER: NAME: YING "JOY" ZHANG  
DEPARTMENT OF TRANSPORTATION  
HARBORS DIVISION  
HALE AWA KU MOKU  
ADDRESS: 79 S. NIMITZ HWY, HONOLULU HI, 96813  
PHONE NO.: (808) 587-1960

Director of Transportation  
869 Punchbowl Street  
Honolulu, Hawaii 96813

Dear Sir:

The undersigned Bidder declares the following:

1. It has not, either directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of free competitive bidding in connection with this proposal.
2. It has not been assisted or represented on this matter by any individual who has, in a State capacity, been involved in the subject matter of this contract within the past two years.
3. It has not and will not, either directly or indirectly offered or given a gratuity (i.e. an entertainment or gift) to any State or County employee to obtain a contract or favorable treatment under a contract.

The undersigned Bidder further agrees to the following:

1. If this proposal is accepted, it shall execute a contract with the Department to provide all necessary labor, machinery, tools, equipment, apparatus and any other means of construction, to do all the work and to furnish all the materials specified in the contract in the manner and within the time therein prescribed in the contract, and that it shall accept in full payment therefore the sum of the unit and/or lump sum prices as set forth in the attached proposal schedule for the actual quantities of work performed and materials furnished and furnish satisfactory security in accordance with Section 103D-324, Hawaii Revised Statutes, within 10 days after the award of the contract or within such time as the Director of Transportation may allow after the undersigned has received the contract documents for execution, and is fully aware that non-compliance with the aforementioned terms will result in the forfeiture of the full amount of the bid guarantee required under Section 103D-323, Hawaii Revised Statutes.
2. That the quantities given in the attached proposal schedule are approximate only and are intended principally to serve as a guide in determining and comparing the bids.
3. That the Department does not either expressly or by implication, agree that the actual amount of work will correspond therewith, but reserves the right to increase or decrease the amount of any class or portion of the work, or to omit portions of the work, as may be deemed necessary or advisable by the Director of Transportation, and that all increased or decreased quantities of work shall be performed at the unit prices set forth in the attached proposal schedule except as provided for in the specifications.

4. In case of a discrepancy between unit prices and the totals in said Proposal Schedule, the unit prices shall prevail.
5. Agrees to begin work within 10 working days after the date of notification to commence with the work, which date is in the notice to proceed, and shall finish the entire project within the time prescribed.
6. The Director of Transportation reserves the right to reject any or all bids and to waive any defects when in the Director's opinion such rejections or waiver will be for the best interest of the public.

The Bidder acknowledges receipt of and certifies that it has completely examined the following listed items: the Hawaii Department of Transportation, Air and Water Transportation Facilities Division General Provisions for Construction Projects dated 2016, the Notice to Bidders, the Special Provisions, if any, the Technical Provisions, the Proposal, the Contract and Bond Forms, and the Project Plans.

In accordance with Section 103D-323, Hawaii Revised Statutes, this proposal is accompanied with a bid security in the amount of 5% of the total amount bid, in the form checked below. (Check applicable bid security submitted with bid.)

Surety Bid Bond (Use standard form),

Cash,

Cashier's Check,

Certified Check, or

\_\_\_\_\_  
(Fill in other acceptable security.)

The undersigned Bidder acknowledges receipt of any addendum issued by the Department by recording in the space below the date of receipt.

Addendum No. 1 \_\_\_\_\_

Addendum No. 3 \_\_\_\_\_

Addendum No. 2 \_\_\_\_\_

Addendum No. 4 \_\_\_\_\_

In accordance with Section 103D-302, Hawaii Revised Statutes, the undersigned as Bidder, has listed the name of each person or firm, who will be engaged by the Bidder on the project as a Subcontractor or Joint Contractor and the nature of work to be done by each. The Bidder must adequately and unambiguously disclose the unique nature and scope of the work to be performed by each Subcontractor or Joint Contractor. For each listed firm, the Bidder declares the respective firm is a Subcontractor or Joint Contractor and is subject to evaluation as a Subcontractor or Joint Contractor. It is understood that failure to comply with the aforementioned requirements may be cause for rejection of the bid submitted.

<u>Name of Subcontractor</u>	<u>Nature and Scope of Work</u>
1. _____	_____
2. _____	_____
3. _____	_____
4. _____	_____
5. _____	_____
6. _____	_____
7. _____	_____
8. _____	_____

<u>Name of Joint Contractor</u>	<u>Nature and Scope of Work</u>
1. _____	_____
2. _____	_____
3. _____	_____

("None" or if left blank indicates no Subcontractor or Joint Contractor; if more space is needed, attach additional sheets.)

The undersigned hereby certifies that the bid prices contained in the attached proposal schedule have been carefully checked and are submitted as correct and final.

This declaration is made with the understanding that the undersigned is subject to the penalty of perjury under the laws of the United States and is in violation of the Hawaii Penal Code, Section 710-1063, unsworn falsification to authorities, of the Hawaii Revised Statutes, for knowingly rendering a false declaration.

\_\_\_\_\_  
Bidder (Company Name)

By \_\_\_\_\_  
Authorized Signature

\_\_\_\_\_  
Print Name and Title

\_\_\_\_\_  
Business Address

\_\_\_\_\_  
Business Telephone                      Email

\_\_\_\_\_  
Date

\_\_\_\_\_  
Contact Person (If different from above)

Phone: \_\_\_\_\_ Email: \_\_\_\_\_

NOTE:

If Bidder is a CORPORATION, the legal name of the corporation shall be set forth above, the corporate seal affixed, together with the signature(s) of the officer(s) authorized to sign contracts for the corporation. Please attach to this page current (not more than six months old) evidence of the authority of the officer(s) to sign for the corporation.

If Bidder is a PARTNERSHIP, the true name of the partnership shall be set forth above, with the signature(s) of the general partner(s). Please attach to this page current (not more than six months old) evidence of the authority of the partner authorized to sign for the partnership.

If Bidder is an INDIVIDUAL, the bidder's signature shall be placed above.

If signature is by an agent, other than an officer of a corporation or a partner of a partnership, a POWER OF ATTORNEY must be on file with the Department before opening bids or submitted with the bid. Otherwise, the Department may reject the bid as irregular and unauthorized.

## **PREFERENCES**

Bidders agree that preferences shall be taken into consideration to determine the low bidder in accordance with said Sections and the rules promulgated, however, the award of contract will be in the amount of the bid offered exclusive of any preferences.

### **A. HAWAII PRODUCTS PREFERENCE**

In accordance with ACT 174, SLH 2022, effective June 27, 2022, Hawaii Products Preference shall not apply to solicitations for public works construction. Therefore, the Hawaii Products Preference shall not apply to this project.

### **B. APPRENTICESHIP PROGRAMS PREFERENCE**

In accordance with ACT 17, SLH 2009 – Apprenticeship Program, a 5% bid adjustment for bidders that are parties to apprenticeship agreements pursuant to Hawaii Revised Statutes (HRS) Section 103-55.6 may be applied to the bidder's price for evaluation purposes.

Any bidder seeking this preference must be a party to an apprenticeship agreement registered with the Department of Labor and Industrial Relations at the time the offer is made for each apprenticeable trade the bidder will employ to construct the public works projects for which the offer is being made.

The bidder is responsible for complying with all submission requirements for registration of its apprenticeship program before requesting the preference.

**( ) Yes, I wish to be considered for the Apprenticeship Programs Preference. I have included Certification Form(s) 1 with my bid.**

### **C. RECYCLED PRODUCT PREFERENCE**

Recycled product preference shall not apply to this proposal.

POTENTIALLY ASBESTOS-CONTAINING DUST CLEANUP AND LIMITED VISUAL  
ASSESSMENT  
AT

PORT ALLEN HARBOR

KAUAI, HAWAII

S70150

PROPOSAL SCHEDULE

Item No.	Item Description	Approx. Quantity (a)	Unit	Unit Price (b)	Amount Bid (a x b)
1	Potentially Asbestos-Containing Dust Cleanup and Limited Visual Assessment	Lump Sum	Lump Sum	Lump Sum	\$ _____
TOTAL AMOUNT FOR COMPARISON OF BIDS.....					\$ _____

Bids shall include all Federal, State, County and other applicable taxes and fees.

The TOTAL AMOUNT FOR COMPARISON OF BIDS will be used to determine the lowest responsible bidder.

Bidders shall complete all unit prices and amounts. Failure to do so may be grounds for rejection of bid.

If the lowest TOTAL AMOUNT FOR COMPARISON OF BIDS is less than, or approximately equal to, the funds available for this project, an award will be made to the lowest responsible bidder.

If the lowest TOTAL AMOUNT FOR COMPARISON OF BIDS exceeds the funds available for this project, the State reserves the right to negotiate with the lowest responsible bidder as permitted under Section 103D-302, Hawaii Revised Statutes, as amended, to reduce the scope of work and award a contract therefor.

Submissions of a proposal is a warranty that the bidder has made an examination of the project site and is fully aware of all conditions to be encountered in performing the work and the requirements of the plans and specifications.

S70150

P-7

No additional compensation will be paid by the State for losses, including overhead and profit, resulting from reduced scope of work.

Contract time shall remain the same whether or not the overall scope of work is decreased.

# SURETY BID BOND

Bond No. \_\_\_\_\_

KNOW TO ALL BY THESE PRESENTS:

That we, \_\_\_\_\_  
(full name or legal title of offeror)

as Offeror, hereinafter called the Principal, and

\_\_\_\_\_  
(name of bonding company)

as Surety, hereinafter called Surety, a corporation authorized to transact business as a Surety in the State of Hawaii, are held and firmly bound unto

\_\_\_\_\_  
(State/county entity)

as Owner, hereinafter called Owner, in the penal sum of

\_\_\_\_\_  
(required amount of bid security)

Dollars (\$ \_\_\_\_\_), lawful money of the United States of America, for the payment of which sum well and truly to be made, the said Principal and the said Surety bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

**WHEREAS:**

The Principal has submitted an offer for

\_\_\_\_\_  
(project by number and brief description)

**NOW, THEREFORE:**

The condition of this obligation is such that if the Owner shall reject said offer, or in the alternate, accept the offer of the Principal and the Principal shall enter into a contract with the Owner in accordance with the terms of such offer, and give such bond or bonds as may be specified in the solicitation or Contract Documents with good and sufficient surety for the faithful performance of such Contract and for the prompt payment of labor and material furnished in the prosecution thereof as specified in the solicitation then this obligation shall be null and void, otherwise to remain in full force and effect.

Signed this \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_

\_\_\_\_\_  
Name of Principal (Offeror) (Seal)

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Title

\_\_\_\_\_  
Name of Surety (Seal)

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Title

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HONOLULU, HAWAII

**FORMS**

Contents

Performance Bond (Surety)

Performance Bond

Labor and Material Payment Bond (Surety)

Labor and Material Payment Bond

Chapter 104, HRS Compliance Certificate

Certification of Compliance for Employment of State Residents, Act 192, SLH 2011

**PERFORMANCE BOND (SURETY)**  
(6/21/07)

**KNOW TO ALL BY THESE PRESENTS:**

That \_\_\_\_\_,  
*(Full Legal Name and Street Address of Contractor)*

as Contractor, hereinafter called Principal, and \_\_\_\_\_  
\_\_\_\_\_  
*(Name and Street Address of Bonding Company)*

as Surety, hereinafter called Surety, a corporation(s) authorized to transact business as a  
surety in the State of Hawaii, are held and firmly bound unto the \_\_\_\_\_,  
*(State/County Entity)*

its successors and assigns, hereinafter called Obligee, in the amount of \_\_\_\_\_

\_\_\_\_\_ DOLLARS (\$ \_\_\_\_\_), to which payment Principal and Surety bind themselves,  
their heirs, executors, administrators, successors and assigns, jointly and severally, firmly by  
these presents.

**WHEREAS**, the above-bound Principal has signed a Contract with Obligee on  
\_\_\_\_\_, for the following project: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

hereinafter called Contract, which Contract is incorporated herein by reference and made a part  
hereof.

**NOW THEREFORE**, the condition of this obligation is such that:

If the Principal shall promptly and faithfully perform, and fully complete the Contract in  
strict accordance with the terms of the Contract as said Contract may be modified or amended  
from time to time; then this obligation shall be void; otherwise to remain in full force and effect.

Surety to this Bond hereby stipulates and agrees that no changes, extensions of time, alterations, or additions to the terms of the Contract, including the work to be performed thereunder, and the specifications or drawings accompanying same, shall in any way affect its obligation on this bond, and it does hereby waive notice of any such changes, extensions of time, alterations, or additions, and agrees that they shall become part of the Contract.

In the event of Default by the Principal, of the obligations under the Contract, then after written Notice of Default from the Obligee to the Surety and the Principal and subject to the limitation of the penal sum of this bond, Surety shall remedy the Default, or take over the work to be performed under the Contract and complete such work, or pay moneys to the Obligee in satisfaction of the surety's performance obligation on this bond.

Signed this \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_.

(Seal)

\_\_\_\_\_  
Name of Principal (Contractor)

\*

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Title

(Seal)

\_\_\_\_\_  
Name of Surety

\*

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Title

**\*ALL SIGNATURES MUST BE ACKNOWLEDGED  
BY A NOTARY PUBLIC**

# PERFORMANCE BOND

**KNOW TO ALL BY THESE PRESENTS:**

That we, \_\_\_\_\_  
(full legal name and street address of Contractor)

as Contractor, hereinafter called Contractor, is held and firmly bound unto the

\_\_\_\_\_ (State/County entity)

its successors and assigns, as Obligee, hereinafter called Obligee, in the amount

\_\_\_\_\_ DOLLARS \$ \_\_\_\_\_),  
(Dollar amount of Contract)

lawful money of the United States of America, for the payment of which to the said Obligee, well and truly to be made, Contractor binds itself, its heir, executors, administrators, successors and assigns, firmly by these presents. Said amount is evidenced by:

- Legal Tender;**
- Share Certificate** unconditionally assigned to or made payable at sight to \_\_\_\_\_  
Description: \_\_\_\_\_;
- Certificate of Deposit**, No. \_\_\_\_\_, dated \_\_\_\_\_ issued by \_\_\_\_\_ drawn on \_\_\_\_\_ a bank, savings institution or credit union insured by the Federal Deposit Insurance Corporation or the National Credit Union Administration, payable at sight or unconditionally assigned to \_\_\_\_\_;
- Cashier's Check** No. \_\_\_\_\_, dated \_\_\_\_\_ drawn on \_\_\_\_\_ a bank, savings institution or credit union insured by the Federal Deposit Insurance Corporation or the National Credit Union Administration, payable at sight or unconditionally assigned to \_\_\_\_\_;
- Teller's Check** No. \_\_\_\_\_, dated \_\_\_\_\_ drawn on \_\_\_\_\_ a bank, savings institution or credit union insured by the Federal Deposit Insurance Corporation or the National Credit Union Administration, payable at sight or unconditionally assigned to \_\_\_\_\_;
- Treasurer's Check** No. \_\_\_\_\_, dated \_\_\_\_\_ drawn on \_\_\_\_\_ a bank, savings institution or credit union insured by the Federal Deposit Insurance Corporation or the National Credit Union Administration, payable at sight or unconditionally assigned to \_\_\_\_\_;
- Official Check** No. \_\_\_\_\_, dated \_\_\_\_\_ drawn on \_\_\_\_\_ a bank, savings institution or credit union insured by the Federal Deposit Insurance Corporation or the National Credit Union Administration, payable at sight or unconditionally assigned to \_\_\_\_\_;
- Certified Check** No. \_\_\_\_\_, dated \_\_\_\_\_ accepted by a bank, savings institution or credit union insured by the Federal Deposit Insurance Corporation or the National Credit Union Administration, payable at sight or unconditionally assigned to \_\_\_\_\_;

**WHEREAS:**

The Contractor has by written agreement dated \_\_\_\_\_ entered into a contract with Obligee for the following Project: \_\_\_\_\_

hereinafter called Contract, which Contract is incorporated herein by reference and made a part hereof.

**NOW THEREFORE,**

The Condition of this obligation is such that, if Contractor shall promptly and faithfully perform the Contract in accordance with, in all respects, the stipulations, agreements, covenants and conditions of the Contract as it now exists or may be modified according to its terms, and shall deliver the Project to the Obligee, or to its successors or assigns, fully completed as in the Contract specified and free from all liens and claims and without further cost, expense or charge to the Obligee, its officers, agents, successors or assigns, free and harmless from all suits or actions of every nature and kind which may be brought for or on account of any injury or damage, direct or indirect, arising or growing out of the doing of said work or the repair or maintenance thereof or the manner of doing the same or the neglect of the Contractor or its agents or servants or the improper performance of the Contract by the Contractor or its agents or servants or from any other cause, then this obligation shall be void; otherwise it shall be and remain in full force and effect.

**AND IT IS HEREBY STIPULATED AND AGREED** that suit on this bond may be brought before a court of competent jurisdiction without a jury, and that the sum or sums specified in the said Contract as liquidated damages, if any, shall be forfeited to the Obligee, its successors or assigns, in the event of a breach of any, or all, or any part of, covenants, agreements, conditions, or stipulations contained in the Contract or in this bond in accordance with the terms thereof.

The amount of this bond may be reduced by and to the extent of any payment or payments made in good faith hereunder.

Signed and sealed this \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_.

(Seal) \_\_\_\_\_

Name of Contractor

\_\_\_\_\_  
Signature\*

\_\_\_\_\_  
Title

\*ALL SIGNATURES MUST BE ACKNOWLEDGED  
BY A NOTARY PUBLIC

**LABOR AND MATERIAL PAYMENT BOND (SURETY)**  
(6/21/07)

**KNOW TO ALL BY THESE PRESENTS:**

That \_\_\_\_\_,  
*(Full Legal Name and Street Address of Contractor)*

as Contractor, hereinafter called Principal, and \_\_\_\_\_  
\_\_\_\_\_  
*(Name and Street Address of Bonding Company)*

as Surety, hereinafter called Surety, a corporation(s) authorized to transact business as a surety in the State of Hawaii, are held and firmly bound unto the \_\_\_\_\_,  
*(State/County Entity)*

its successors and assigns, hereinafter called Oblige, in the amount of \_\_\_\_\_

\_\_\_\_\_ Dollars (\$\_\_\_\_\_), to which payment Principal and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

**WHEREAS**, the above-bound Principal has signed Contract with the Oblige on \_\_\_\_\_ for the following project: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

hereinafter called Contract, which Contract is incorporated herein by reference and made a part hereof.

**NOW THEREFORE**, the condition of this obligation is such that if the Principal shall promptly make payment to any Claimant, as hereinafter defined, for all labor and materials supplied to the Principal for use in the performance of the Contract, then this obligation shall be void; otherwise to remain in full force and effect.

1. Surety to this Bond hereby stipulates and agrees that no changes, extensions of time, alterations, or additions to the terms of the Contract, including the work to be performed thereunder, and the specifications or drawings accompanying same, shall in any way affect its obligation on this bond, and it does hereby waive notice of any such changes, extensions of time, alterations, or additions, and agrees that they shall become part of the Contract.

2. A "Claimant" shall be defined herein as any person who has furnished labor or materials to the Principal for the work provided in the Contract.

Every Claimant who has not been paid amounts due for labor and materials furnished for work provided in the Contract may institute an action against the Principal and its Surety on this bond at the time and in the manner prescribed in Section 103D-324, Hawaii Revised Statutes, and have the rights and claims adjudicated in the action, and judgment rendered thereon; subject to the Obligee's priority on this bond. If the full amount of the liability of the Surety on this bond is insufficient to pay the full amount of the claims, then after paying the full amount due the Obligee, the remainder shall be distributed pro rata among the claimants.

Signed this \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_.

(Seal)

\_\_\_\_\_  
Name of Principal (Contractor)

\*

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Title

(Seal)

\_\_\_\_\_  
Name of Surety

\*

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Title

**\*ALL SIGNATURES MUST BE ACKNOWLEDGED  
BY A NOTARY PUBLIC**

# LABOR AND MATERIAL PAYMENT BOND

KNOW TO ALL BY THESE PRESENTS:

That we, \_\_\_\_\_  
(full legal name and street address of Contractor)

as Contractor, hereinafter called Contractor, is held and firmly bound unto \_\_\_\_\_  
(State/County entity)

its successors and assigns, as Obligee, hereinafter called Obligee, in the amount  
\_\_\_\_\_ DOLLARS (\$ \_\_\_\_\_ )  
(Dollar amount of Contract)

lawful money of the United States of America, for the payment of which to the said Obligee, well and truly to be made, Contractor binds itself, its heir, executors, administrators, successors and assigns, firmly by these presents. Said amount is evidenced by:

- Legal Tender;
- Share Certificate unconditionally assigned to or made payable at sight to \_\_\_\_\_  
Description: \_\_\_\_\_
- Certificate of Deposit, No. \_\_\_\_\_, dated \_\_\_\_\_ issued by \_\_\_\_\_ drawn on \_\_\_\_\_ a bank, savings institution or credit union insured by the Federal Deposit Insurance Corporation or the National Credit Union Administration, payable at sight or unconditionally assigned to \_\_\_\_\_;
- Cashier's Check No. \_\_\_\_\_, dated \_\_\_\_\_ drawn on \_\_\_\_\_ a bank, savings institution or credit union insured by the Federal Deposit Insurance Corporation or the National Credit Union Administration, payable at sight or unconditionally assigned to \_\_\_\_\_;
- Teller's Check No. \_\_\_\_\_, dated \_\_\_\_\_ drawn on \_\_\_\_\_ a bank, savings institution or credit union insured by the Federal Deposit Insurance Corporation or the National Credit Union Administration, payable at sight or unconditionally assigned to \_\_\_\_\_;
- Treasurer's Check No. \_\_\_\_\_, dated \_\_\_\_\_ drawn on \_\_\_\_\_ a bank, savings institution or credit union insured by the Federal Deposit Insurance Corporation or the National Credit Union Administration, payable at sight or unconditionally assigned to \_\_\_\_\_;
- Official Check No. \_\_\_\_\_, dated \_\_\_\_\_ drawn on \_\_\_\_\_ a bank, savings institution or credit union insured by the Federal Deposit Insurance Corporation or the National Credit Union Administration, payable at sight or unconditionally assigned to \_\_\_\_\_;
- Certified Check No. \_\_\_\_\_, dated \_\_\_\_\_ accepted by a bank, savings institution or credit union insured by the Federal Deposit Insurance Corporation or the National Credit Union Administration, payable at sight or unconditionally assigned to \_\_\_\_\_;

**WHEREAS:**

The Contractor has by written agreement dated \_\_\_\_\_ entered into a contract with Obligee for the following Project: \_\_\_\_\_

hereinafter called Contract, which Contract is incorporated herein by reference and made a part hereof.

**NOW THEREFORE,**

The condition of this obligation is such that, if Contractor shall promptly and faithfully perform the Contract in accordance with, in all respects, the stipulations, agreements, covenants and conditions of the Contract as it now exists or may be modified according to its terms, free from all liens and claims and without further cost, expense or charge to the Obligee, its officers, agents, successors or assigns, free and harmless from all suits or actions of every nature and kind which may be brought for or on account of any injury or damage, direct or indirect, arising or growing out of the doing of said work or the repair or maintenance thereof or the manner of doing the same or the neglect of the Contractor or its agents or servants or the improper performance of the Contract by the Contractor or its agents or servants or from any other cause, then this obligation shall be void; otherwise it shall be and remain in full force and effect.

**AND IT IS HEREBY STIPULATED AND AGREED** that suit on this bond may be brought before a court of competent jurisdiction without a jury, and that the sum or sums specified in the said Contract as liquidated damages, if any, shall be forfeited to the Obligee, its successors or assigns, in the event of a breach of any, or all, or any part of, covenants, agreements, conditions, or stipulations contained in the Contract or in this bond in accordance with the terms thereof.

**AND IT IS HEREBY STIPULATED AND AGREED** that this bond shall inure to the benefit of any and all persons entitled to file claims for labor performed or materials furnished in said work so as to give any and all such persons a right of action as contemplated by Sections 103D-324(d) and 103D-324(e), Hawaii Revised Statutes.

The amount of this bond may be reduced by and to the extent of any payment or payments made in good faith hereunder, inclusive of the payments of mechanics' liens which may be filed of record against the Project, whether or not claim for the amount of such lien be presented under and against this bond..

Signed this \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_.

(Seal) \_\_\_\_\_

Name of Contractor

\_\_\_\_\_  
Signature\*

\_\_\_\_\_  
Title

ALL SIGNATURES MUST BE ACKNOWLEDGED BY A NOTARY PUBLIC

CHAPTER 104, HRS COMPLIANCE CERTIFICATE

The undersigned bidder does hereby certify to the following:

1. Individuals engaged in the performance of the contract on the job site shall be paid:
  - A. Not less than the wages that the director of labor and industrial relations shall have determined to be prevailing for corresponding classes of laborers and mechanics employed on public works projects; and
  - B. Overtime compensation at one and one-half times the basic hourly rate plus fringe benefits for hours worked on Saturday, Sunday, or a legal holiday of the State or in excess of eight hours on any other day.
2. All applicable laws of the federal and state governments relating to workers' compensation, unemployment compensation, payment of wages, and safety shall be fully complied with.

DATED at Honolulu, Hawaii, this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

\_\_\_\_\_  
«CONTRACTOR»  
Name of Corporation, Partnership, or Individual

\_\_\_\_\_  
Signature and Title of Signer

Notary Seal  
NOTARY ACKNOWLEDGEMENT

Subscribed and sworn before me this \_\_\_\_\_ day of \_\_\_\_\_  
Notary signature \_\_\_\_\_  
Notary public, State of \_\_\_\_\_  
My Commission Expires: \_\_\_\_\_

Notary Seal  
NOTARY CERTIFICATION

Doc. Date: \_\_\_\_\_ #Pages: \_\_\_\_\_  
Notary Name: \_\_\_\_\_ Circuit \_\_\_\_\_  
Doc. Description: \_\_\_\_\_  
\_\_\_\_\_  
Notary signature \_\_\_\_\_  
Date \_\_\_\_\_

**PROVISIONS TO BE INCLUDED IN  
CONSTRUCTION PROCUREMENT SOLICITATIONS**

1. Definitions for terms used in HRS Chapter 103B as amended by Act 192, SLH 2011:
  - a. "Contract" means contracts for construction under 103D, HRS.
  - b. "Contractor" has the same meaning as in Section 103D-104, HRS, provided that "contractor" includes a subcontractor where applicable.
  - c. "Construction" has the same meaning as in Section 103D-104, HRS.
  - d. "General Contractor" means any person having a construction contract with a governmental body.
  - e. "Procurement Officer" has the same meaning as in Section 103D-104, HRS.
  - f. "Resident" means a person who is physically present in the State of Hawai'i at the time the person claims to have established the person's domicile in the State of Hawai'i and shows the person's intent is to make Hawai'i the person's primary residence.
  - g. "Shortage trade" means a construction trade in which there is a shortage of Hawai'i residents qualified to work in the trade as determined by the Department of Labor and Industrial Relations.
  
2. HRS Chapter 103B as amended by Act 192, SLH 2011--Employment of State Residents Requirements:
  - a. A Contractor awarded a contract shall ensure that Hawai'i residents comprise not less than 80% of the workforce employed to perform the contract work on the project. The 80% requirement shall be determined by dividing the total number of hours worked on the contract by Hawai'i residents, by the total number of hours worked on the contract by all employees of the Contractor in the performance of the contract. The hours worked by any Subcontractor of the Contractor shall count towards the calculation for this section. The hours worked by employees within shortage trades, as determined by the Department of Labor and Industrial Relations (DLIR), shall not be included in the calculation for this section.

- b. Prior to award of a contract, an Offeror/Bidder may withdraw an offer/bid without penalty if the Offeror/Bidder finds that it is unable to comply with HRS Chapter 103B as amended by Act 192, SLH 2011.
- c. Prior to starting any construction work, the Contractor shall submit the subcontract dollar amount for each of its Subcontractors.
- d. The requirements of this section shall apply to any subcontract of \$50,000 or more in connection with the Contractor; that is, such Subcontractors must also ensure that Hawai'i residents comprise not less than 80% of the Subcontractor's workforce used to perform the subcontract.
- e. The Contractor and any Subcontractor whose subcontract is \$50,000 or more shall comply with the requirements of HRS Chapter 103B as amended by Act 192, SLH 2011.
  - 1) Certification of compliance shall be made in writing under oath by an officer of the General Contractor and applicable Subcontractors and submitted with the final payment request.
  - 2) The certification of compliance shall be made under oath by an officer of the company by completing a "Certification of Compliance for Employment of State Residents" form and executing the Certificate before a licensed notary public.
  - 3) In addition to the certification of compliance as indicated above, the Contractor and Subcontractors shall maintain records such as certified payrolls for laborers and mechanics who performed work at the site and time sheets for all other employees who performed work on the project. These records shall include the names, addresses and number of hours worked on the project by all employees of the Contractor and Subcontractor who performed work on the project to validate compliance with HRS Chapter 103B as amended by Act 192, SLH 2011. The Contractor and Subcontractors shall retain these records and provide access to the State for a minimum period of four (4) years after the final payment, except that if any litigation, claim, negotiation, investigation, audit or other action involving the records has been started before the expiration of the four-year period, the Contractor and Subcontractors shall retain the records until completion of the action and resolution of all issues that arise from it, or until the end of the four-year period, whichever occurs later. Furthermore, it shall be the Contractor's responsibility to enforce compliance with this provision by any Subcontractor.

- f. A General Contractor or applicable Subcontractor who fails to comply with this section shall be subject to any of the following sanctions:
- 1) With respect to the General Contractor, withholding of payment on the contract until the Contractor or its Subcontractor complies with HRS Chapter 103B as amended by Act 192, SLH 2011.
  - 2) Proceedings for debarment or suspension of the Contractor or Subcontractor under Hawai'i Revised Statutes §103D-702.
3. Conflict with Federal Law: This section shall not apply if the application of this section is in conflict with any federal law, or if the application of this section will disqualify the State from receiving Federal funds or aid.

**CERTIFICATION OF COMPLIANCE  
FOR  
EMPLOYMENT OF STATE RESIDENTS  
HRS CHAPTER 103B, AS AMENDED BY ACT 192, SLH 2011**

Project Title: \_\_\_\_\_

Agency Project No: \_\_\_\_\_

Contract No.: \_\_\_\_\_

As required by Hawai'i Revised Statutes Chapter 103B, as amended by Act 192, Session Laws of Hawaii 2011--Employment of State Residents on Construction Procurement Contracts, I hereby certify under oath, that I am an officer of \_\_\_\_\_ and  
(Name of Contractor or Subcontractor Company)  
for the Project Contract indicated above, \_\_\_\_\_ was in  
(Name of Contractor or Subcontractor Company)  
compliance with HRS Chapter 103B, as amended by Act 192, SLH 2011, by employing a workforce of which not less than eighty percent are Hawai'i residents, as calculated according to the formula in the solicitation, to perform this Contract.

I am an officer of the **Contractor** for this contract.

I am an officer of a **Subcontractor** for this contract.

*CORPORATE SEAL*

\_\_\_\_\_  
(Name of Company)

\_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(Print Name)

\_\_\_\_\_  
(Print Title)

Subscribed and sworn to me before this  
\_\_\_\_ day of \_\_\_\_\_, 2011.

Doc. Date: \_\_\_\_\_ # of Pages \_\_\_\_\_ 1<sup>st</sup> Circuit

Notary Name: \_\_\_\_\_

Doc. Description: \_\_\_\_\_

\_\_\_\_\_  
Notary Public, 1<sup>st</sup> Circuit, State of Hawai'i  
My commission expires: \_\_\_\_\_

\_\_\_\_\_  
Notary Signature

\_\_\_\_\_  
Date

NOTARY CERTIFICATION