

Hazardous Building Materials Survey

Project Name / Location:

DOT Ferry HBMS & Management Plan
MV Matanuska
3801 Tongass Avenue
Ketchikan, Alaska 99901

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Acronyms & Abbreviations

ACM	Asbestos-Containing Materials
AHERA	Asbestos Hazard Emergency Response Act
ASHARA	Asbestos School Hazard Abatement Reauthorization Act
CFR	Code of Federal Regulations
COC	Chain of Custody
EPA	Environmental Protection Agency
Ext	Exterior
Fwd	Forward
HAZWOPER	Hazardous Waste Operations & Emergency Response
HEPA	High Efficiency Particulate Air
HBMS	Hazardous Building Materials Survey
HVAC	Heating Ventilation & Air Conditioning
Int	Interior
MSD	Marine Sanitation Device
MV	Marine Vessel
NESHAP	National Emissions and Standards for Hazardous Air Pollutants
NVLAP	National Voluntary Lab Accreditation Program
OSHA	Occupational Safety and Health Administration
PLM	Polarized Light Microscopy
PPE	Personal Protective Equipment
Stbd	Starboard
TSI	Thermal System Insulation

Executive Summary

Satori Group, Inc. (herein Satori) was contracted by the Alaska Department of Transportation & Public Facilities (herein Client) to conduct a Hazardous Building Materials Survey (HBMS) for asbestos-containing materials (ACM) on the Marine Vessel (MV) Matanuska.

The information contained within this report is intended as a guide for workers who may encounter hazardous materials during daily routine work, renovations, or demolition activities. If building materials or chemicals are discovered that are not specified in this report, assume materials are hazardous before proceeding. Consider engaging Satori to conduct additional sampling and analysis for proper characterization.

The report is organized to provide detailed sample information, sample locations and a visual representation of asbestos materials identified. Section 4.0 includes a comprehensive asbestos bulk sample listing, Appendix B includes sample locations for each respective deck, and Appendix D Site Photographs includes those materials which tested positive for asbestos.

Asbestos Summary

All asbestos samples collected during this survey inspection were analyzed in compliance with US EPA Polarized Light Microscopy (PLM) Method 600/R-93/116. The Environmental Protection Agency (EPA) and Occupational Safety and Health Administration (OSHA) regulations define ACM as “any material that contains greater than 1% asbestos”.

A total of one-hundred ninety-three (193) bulk samples, resulting in three-hundred eighty-three (383) layers, were collected and analyzed from the MV Matanuska during the sampling process.

Review of the laboratory results revealed asbestos was detected in twenty (20) samples at concentrations greater than 1%. The following summarizes the materials that were identified as ACM during this inspection:

Hold Deck 1:

- Brown Packing Material – MSD Room
- Gray Thermal System Insulation (TSI) (Linear) – Shaft Alley

Second Deck 2:

- Gray Sink Insulation – Engineer Stores
- Brown Packing Material – Elevator Machine Room
- Brown Baseboard Adhesive – Crew Quarters near Stateroom 7
- Brown Baseboard Adhesive – Crew Quarters near Fan Room No. 3

Gallery Deck 4:

- Black Packing Material – Bosun Stores
- Gray Floor Tile & Black Mastic – Crew Stateroom BO 8
- Gray Wallboard – Crew Stateroom BO 8 (Port)
- Gray Wallboard – Crew Stateroom BO 8 (Forward)

- Gray Floor Tile & Black Mastic – Crew Stateroom 1
- Gray/Beige Wallboard – Crew Stateroom 1
- Gray TSI (Elbow) – Cleaning Gear Locker
- Gray/White/Green Floor Tile & Black Mastic – Junior Engineer Stateroom

Cabin Deck 5:

- Gray/White Flooring – First Aid Room

Bridge Deck 7:

- Brown Baseboard Mastic – Third Mate Stateroom Closet
- Brown Baseboard Mastic – Third Mate Stateroom
- Tan Floor Tile & Black Mastic – Third Mate Stateroom
- Pink Floor Tile & Black Mastic – Officer Quarters Hallway
- Pink Floor Tile & Black Mastic – First Engineer Stateroom

Additionally, asbestos was detected in seven (7) samples at concentrations below 1%. The following summarizes these materials:

Cabin Deck 5:

- Brown Baseboard Adhesive – Port Hallway
- Brown Baseboard Adhesive – Starboard Hallway
- White Leveler-Like Material (Sub-flooring) – Starboard Hallway

Boat Deck 6:

- Red Leveler (Sub-flooring) – Cafeteria
- Red Leveler (Sub-flooring) – Unisex Restroom

Bridge Deck 7:

- Brown/White Baseboard Mastic – Aft/Port Exit to Outer Deck
- Gray Underlayment – Second Mate Stateroom

The remaining bulk samples of suspect materials collected during this inspection contained no detectable levels of asbestos.

Section 4.0 Results and Conclusions contains tabled sample results within subsections 4.1 to 4.9 organized by deck.

Figures in Appendix B provide locations of each sample by deck and are color coded to indicate positive or negative results.

1.0 Introduction

1.1 Objective & Inspection Protocol

The purpose of Satori's survey inspection is to identify and assess ACM on the MV Matanuska, located at Vigor Alaska in Ketchikan, Alaska. Satori's inspection was limited to specific areas and building materials, as requested by the client.

Satori conducted the site inspection and sampling from August 21st until August 25th, 2023. The site inspection and sampling were conducted by Ms. Anna Scheiner and Ms. Jasmine Brown. Ms. Scheiner and Ms. Brown are certified AHERA Building Inspectors (Building Inspector# HIASB-5286 and Building Inspector# TBI4-223-17727, respectively) for ACM, and are certified to handle hazardous materials via the HAZWOPER 40-hour course. All appropriate accreditations are attached herewith (Appendix C).

The information contained within this report is designed to aid in the management, abatement, and/or disposal of asbestos identified. While on-site, Satori's inspectors gathered key information regarding the MV Matanuska, such as composition, condition, and general layout to guide renovation or demolition activities. Satori was provided detailed drawings of the vessel by the Client prior to inspection. Ms. Scheiner and Ms. Brown were guided through the entirety of the vessel by representatives from both the vessel crew and Vigor Alaska upon arrival at the Vigor Alaska shipyard.

The following tasks were completed by Satori's inspectors to ensure all necessary information was captured to meet the inspection requirements:

- Conduct asbestos inspection throughout all accessible areas of the vessel as outlined by the Client.
- Inventory, locate, and assess potential asbestos-containing materials.
- Submit all asbestos samples collected to a certified third-party laboratory for analyses.

1.2 Vessel Overview

The MV Matanuska is a State of Alaska passenger ferry used for the transport of vehicles and people. The vessel is comprised of eight separate deck areas, excluding the Innerbottom. They are described below:

- **Hold Deck 1:** Main engines and auxiliary machinery (lower level), various storage tanks (including sewage and potable water), bow thruster and steering gear rooms.
- **Second Deck 2:** Main engines and auxiliary machinery (upper level), food stores, engineer stores, steward staterooms.
- **Main Deck 3:** Vehicle space, storage lockers.
- **Gallery Deck 4:** Crew quarters, Bosun stores.

- **Cabin Deck 5:** Passenger staterooms, Chief Steward office, Purser offices, medical supply room, storage lockers.
- **Boat Deck 6:** Forward observation lounge, cocktail lounge, galley, cafeteria.
- **Bridge Deck 7:** Wheelhouse, officer quarters, recliner lounge, solarium.
- **House Top Deck 8:** Mainly exterior components and one interior fan room.

The Innerbottom, located mainly below Hold Deck 1, contained various tanks such as ballast and oily waste tanks. Additional vessel components include the fidley (located midship from Main Deck 3 to House Top Deck 8), a freight elevator (servicing Second Deck 2 to Boat Deck 6), a passenger elevator (servicing Main Deck 3 to Bridge Deck 7), and nine fan rooms located on five decks on the vessel.

The MV Matanuska is largely constructed with aluminum and steel to withstand marine conditions and corrosion. The interior walls of the vessel are constructed with metal panels and wallboard with various types of coverings. The interior flooring of the vessel is separated as follows:

- **Innerbottom, Hold Deck 1, Second Deck 2, and Main Deck 3, House Top Deck 8:** Sheet metal.
- **Gallery Deck 4, Cabin Deck 5, Boat Deck 6, and Bridge Deck 7:** Carpet, tile, sheet vinyl, and epoxy.

The exterior flooring of the vessel is constructed with steel covered with a non-slip coating. Additionally, the HVAC units located throughout the vessel are a mix of insulated and uninsulated metal ducting, and most of the piping throughout the vessel is covered with various types of insulation. The main engines located on Hold Deck 1 and Second Deck 2 are diesel with venting exhaust stacks leading up to House Top Deck 8.

1.3 Vessel Construction & Renovation History

The vessel was built in 1963 at the Puget Sound Bridge and Dry Dock shipyard in Seattle, Washington. The vessel was renovated in 1978 at the Willamette Iron and Steel Company shipyard in Portland, Oregon, which included lengthening, various renovations, and limited ACM removal activities. The Glosten Associates, Inc. describes these and other renovation activities conducted on the MV Matanuska between 1978 and 1991 in their *Alaska Marine Highway System Fleet Condition and Asbestos Survey*, published in July 1991:

- **1978**
 - MV Matanuska was lengthened to a total of 408 ft
 - Cabin Deck 5 was refurbished, including ACM removal
 - Telemotor control was installed
 - Flush and drain piping was renewed
 - Fresh Water System was renewed
- **1985**
 - Engineering Control System was remodeled
 - Propulsion plant was replaced
 - Air receivers were replaced
 - Oil-water separator was installed

- 1986
 - Service electrical plant was renewed
- 1989
 - Sewage system was renewed
- 1990-1991
 - Main engines received top end overhaul
 - Anchor windlass was overhauled

In January 1991, Pinchin Harris Holland Associates conducted an extensive asbestos inspection on the MV Matanuska, detailed in their *Report on the Condition and Hazard of Asbestos Containing Materials on the Vessel M.V. Matanuska*. An addendum to this report outlines abatement activities that were performed in 1996 at Todd Pacific Shipyard in Seattle, Washington:

- *Bridge Deck 7*: ACM overhead panels in officer staterooms were removed
- *Boat Deck 6*: ACM spray-on overhead insulation in forward lounge was removed; ACM spray-on overhead insulation in middle foyer was removed; ACM spray-on overhead insulation in cafeteria and aft foyer to cafeteria was removed
- *Gallery Deck 4*: ACM overhead panels in crew staterooms was removed
- *Cabin Deck 5*: ACM spray-on overhead insulation in six cabins, located aft of Frame 166, was removed
- *Second Deck 2*: ACM overhead panels in crew staterooms were removed

Several asbestos inspections have been conducted by Vigor Alaska between 2021 and 2023, along with one inspection by Satori in 2022. Additionally, Satori conducted an abatement in 2023 which involved the removal of asbestos debris from the Gallery Deck 4 crew quarters and Bosun stores, the Second Deck 2 forward crew quarters, the auxiliary machinery room, and the marine sanitation device (MSD) room.

During the MV Matanuska inspection, vessel crew and Vigor representatives indicated various renovations have occurred in recent years including main engine replacement, various packings and gaskets, and limited sections of wallboard throughout the vessel, although no documentation of these renovations were made available.

1.4 Subcontractors/Vendors

All physical asbestos samples collected during this inspection were submitted to and analyzed by LA Testing, Inc. (LA Testing), located in South Pasadena, California. The analysis method was Polarized Light Microscopy (PLM) Method 600/R-93/116. LA Testing holds a current National Voluntary Lab Accreditation Program (NVLAP Lab Code: 200232-0) accreditation for all appropriate fields-of-testing.

2.0 Hazardous Materials Overview

The following section describes the origin of the hazardous materials (asbestos), the typical locations the hazardous items can be found in, along with any correlating definitions used when dealing with these materials.

2.1 Asbestos

Asbestos is a naturally occurring mineral that can be divided into two mineral groups – serpentine and amphibole. The divisions between the two types of asbestos are based upon the crystalline structure. Serpentine has sheet, or layered like structure where amphiboles have a chain-like structure. Chrysotile, amosite, crocidolite, tremolite, anthophyllite and actinolite make up the list of asbestos fibers. Chrysotile, the only member of the serpentine group, is the most common type of asbestos found in buildings. Approximately 90-95% of asbestos-containing material in buildings will consist of Chrysotile in the United States. Asbestos is often referred to

as “friable” or “non-friable” for classification purposes by the National Emissions and Standards for Hazardous Air Pollutants (NESHAP). Friable asbestos is defined as “crumbled or reduced to powder by hand pressure”. Asbestos which is friable or has become friable has a greater likelihood of releasing asbestos fibers into the air, thus having a greater impact on human health.

Suspect Asbestos-Containing Materials (ACM)

- Floor Tiles and Mastic
- Wallboard
- Ceiling Texture
- Joint Compound

- Pipe Insulation
- Sound/Fireproofing
- Roof Tars and Felts
- Cove Base Mastic

The Asbestos Hazard Emergency Response Act (AHERA) was promulgated in 1986. AHERA mandated that the Environmental Protection Agency (EPA) develop regulations for addressing asbestos in schools. The mandatory AHERA inspector requirement was implemented for any person who performs inspections for ACM on public and commercial buildings; however, it failed to include residential apartments or detached single family homes. The Asbestos School Hazard Abatement Reauthorization Act (ASHARA), enacted in 1990 and implemented in 1994, governs the training that asbestos workers, inspectors, supervisors, plan management writers, and abatement designers must receive to become accredited. AHERA instituted the training requirement for any person who inspects for ACM following a recommendation by ASHARA. Asbestos in buildings does not mean an endangerment to workers or occupants unless the condition of the asbestos is damaged or will become damaged or friable due to human or environmental influences. If the building demolition is planned, the EPA requires formal notification 10 business days in advance, regardless of the presence of ACMs. Contractors or property owners submitting EPA notifications must have documentation that an asbestos survey was conducted. Determination regarding the presence or absence of ACMs assist building owners and contractors to mitigate risks to human health and the environment and reduce the potential for regulatory agency citations.

3.0 Methodology

3.1 Pre-Sampling Activities

Satori's field personnel conducted a thorough visual inspection of existing on-site conditions prior to any testing/sampling activities. Sampling was initiated only after developing a sampling plan of suspect materials, based upon a visual inspection of the subject areas. The purpose of the inspection was to identify ACM by bulk sampling. Satori reviews and considers the following information during the pre-sampling activity:

- Vessel deck plans, identifying room numbers, locations, and functions.
- Review of homogeneous areas.
- Identifying assumed asbestos materials in various building substrates.

3.2 Asbestos Sampling

The asbestos sampling was conducted in compliance with EPA AHERA standards identified in 40 Code of Federal Regulations (CFR) 763 Subpart E, National Emission Standards for Hazardous Air Pollutants (NESHAP) 40 CFR 61 Subpart M, ASTM E 2356-10, and OSHA 29 CFR 1926.1101.

All disturbances during sampling were done using hand tools and water to minimize the potential for any airborne hazards. When possible, repairs were made to areas disturbed to mitigate any further spread of contamination (if it existed). After disturbances were complete, the area was cleaned with a High Efficiency Particulate Air (HEPA) vacuum to ensure exposures to potentially hazardous materials were minimized. The location (deck/room), composition or substrate description, and matrix of each bulk sample collected were recorded.

The asbestos bulk samples are placed in sealed sample bags, given a unique sample number, and sent to a National Voluntary Lab Accreditation Program (NVLAP) approved laboratory under chain-of-custody protocols. Asbestos bulk samples are typically analyzed by Polarized Light Microscopy (PLM) Method 600/R-93/116. All asbestos bulk samples were collected between August 22nd and August 25th, 2023, and were shipped to LA Testing in Pasadena, California on August 30th, 2023.

Due to accessibility constraints, many vessel components were not sampled and instead must be presumed ACM. These materials mainly include packings and gaskets, as many were not sampled due to their proximity to active electrical and mechanical components, but may also include common materials such as TSI and wallboard in various locations onboard the MV Matanuska. Additionally, due to the piece-meal renovations and ACM removals and incomplete documentation of these activities, many sampled materials may yield different results even if collected from the same homogeneous area. In light of this, it is Satori's recommendation that any materials requiring repair or renovation, if not expressly documented in this or any other hazardous material report, be tested for asbestos prior to disturbance.

The below table outlines the asbestos sampling methodology, as it pertains to material category and required minimum sampling.

Type of Suspect Material	Minimum Sampling
Surfacing Material Less than 1000 ft ² 1000 – 5000 ft ² Greater than 5000 ft ²	3 samples 5 samples 7 samples
Thermal System Insulation	3 or more samples per homogeneous area of suspect material
Miscellaneous	2 or more samples per homogeneous area of suspect material

4.0 Results & Conclusions

Satori completed the survey inspection identifying and assessing ACM on August 25th, 2023. During this inspection, a total of one-hundred ninety-three (193) asbestos samples, resulting in three-hundred eighty-three (383) layers, were collected.

The following sub-sections provide a summation of the results based on the field observations, field testing, and laboratory analytical data of bulk asbestos samples from Satori’s inspection of the subject site.

4.1 Asbestos Findings: Innerbottom

Bulk Sample#	Sample Location	Material Description	Friable (Y/ N)	Material Condition	Appx. Quantity	Asbestos Content
MAT-825-IB-01-Insulation	Void 5 – Ceiling	Brown/Tan Blown-on Insulation	N/A	Good	N/A	ND
MAT-825-IB-01-Mastic-Like Material	Void 5 – Ceiling	Brown/Black Mastic-Like Material	N/A	Good	N/A	ND

KEY: ND = non-detect; N/A = not applicable

4.2 Asbestos Findings: Hold Deck 1

Bulk Sample#	Sample Location	Material Description	Friable (Y/ N)	Material Condition	Appx. Quantity	Asbestos Content
MAT-822-D1-01-Coating	MSD Room - Pipe Insulation (Port)	Tan Coating	N/A	Damaged	N/A	ND
MAT-822-D1-01- Foam	MSD Room - Pipe Insulation (Port)	Black Foam	N/A	Damaged	N/A	ND
MAT-822-D1-02-Coating	MSD Room – TSI Elbow (Aft)	White Coating	N/A	Good	N/A	ND
MAT-822-D1-02-TSI 1	MSD Room – TSI Elbow (Aft)	Beige TSI	N/A	Good	N/A	ND
MAT-822-D1-02-Wrap	MSD Room – TSI Elbow (Aft)	White Wrap	N/A	Good	N/A	ND
MAT-822-D1-02-TSI 2	MSD Room – TSI Elbow (Aft)	Yellow TSI	N/A	Good	N/A	ND
MAT-822-D1-03-Coating	MSD Room – TSI Linear (Aft)	White Coating	N/A	Good	N/A	ND
MAT-822-D1-03-Wrap 1	MSD Room – TSI Linear (Aft)	White Wrap	N/A	Good	N/A	ND
MAT-822-D1-03-Wrap 2	MSD Room – TSI Linear (Aft)	White/Yellow Wrap	N/A	Good	N/A	ND
MAT-822-D1-03-TSI	MSD Room – TSI Linear (Aft)	Yellow TSI	N/A	Good	N/A	ND

Bulk Sample#	Sample Location	Material Description	Friable (Y/ N)	Material Condition	Appx. Quantity	Asbestos Content
MAT-822-D1-04	MSD Room – Ceiling (Fwd/Stbd)	White/Yellow Ceiling Insulation	N/A	Good	N/A	ND
MAT-822-D1-05	MSD Room – V2 Tank (Fwd)	Black Gasket	N/A	Good	N/A	ND
MAT-822-D1-06	MSD Room – Large Silver Wire (Fwd/Stbd)	Black Packing	N	Good	N/A	50% Chrysotile
MAT-822-D1-07	Aux Machinery Room – Piping (Aft/Stbd)	White/Black Foam Insulation	N/A	Damaged	N/A	ND
MAT-822-D1-08-Coating 1	Engine Room Lower Level – Waste Oil Return Line TSI Elbow (Fwd)	Beige Coating	N/A	Good	N/A	ND
MAT-822-D1-08-Coating 2	Engine Room Lower Level – Waste Oil Return Line TSI Elbow (Fwd)	White Coating	N/A	Good	N/A	ND
MAT-822-D1-08-TSI	Engine Room Lower Level – Waste Oil Return Line TSI Elbow (Fwd)	White TSI	N/A	Good	N/A	ND
MAT-822-D1-09-Insulation Tape 1	Engine Room Lower Level – Makeup Water Solenoid Insulation	Gray/White Insulation Tape	N/A	Good	N/A	ND
MAT-822-D1-09-Insulation Tape 2	Engine Room Lower Level – Makeup Water Solenoid Insulation	Tan/White Insulation Tape	N/A	Good	N/A	ND
MAT-822-D1-10	Shaft Alley – Piping (Aft/Port)	Gray/Tan/Black Gasket	N/A	Good	N/A	ND
MAT-822-D1-11-Coating 1	Shaft Alley – TSI Elbow (Fwd/Port)	Beige Coating	N/A	Good	N/A	ND

Bulk Sample#	Sample Location	Material Description	Friable (Y/ N)	Material Condition	Appx. Quantity	Asbestos Content
MAT-822-D1-11-Coating 2	Shaft Alley – TSI Elbow (Fwd/Port)	White Coating	N/A	Good	N/A	ND
MAT-822-D1-11-TSI	Shaft Alley – TSI Elbow (Fwd/Port)	White TSI	N/A	Good	N/A	ND
MAT-822-D1-12-Wrap	Shaft Alley – TSI Linear (Fwd/Port)	White/Green Wrap	N/A	Good	N/A	ND
MAT-822-D1-12-TSI	Shaft Alley – TSI Linear (Fwd/Port)	Gray TSI	Y	Good	N/A	10% Amosite, 5% Chrysotile

KEY: MSD = marine sanitation device; TSI = thermal system insulation; Fwd = forward; Stbd = starboard; ND = non-detect; N/A = not applicable

4.3 Asbestos Findings: Second Deck 2

Bulk Sample#	Sample Location	Material Description	Friable (Y/ N)	Material Condition	Appx. Quantity	Asbestos Content
MAT-822-D2-01-Wrap 1	Aux Machinery Room Upper Level – Steam Pipe to Seachest TSI Elbow (Port)	White/Yellow Wrap	N/A	Good	N/A	ND
MAT-822-D2-01-TSI	Aux Machinery Room Upper Level – Steam Pipe to Seachest TSI Elbow (Port)	Beige TSI	N/A	Good	N/A	ND
MAT-822-D2-02-Wrap 1	Aux Machinery Room Upper Level – Steam Pipe to Seachest TSI Linear (Port)	Tan/White Wrap	N/A	Good	N/A	ND
MAT-822-D2-02-Wrap 2	Aux Machinery Room Upper Level – Steam Pipe to Seachest TSI Linear (Port)	White/Yellow Wrap	N/A	Good	N/A	ND

Bulk Sample#	Sample Location	Material Description	Friable (Y/ N)	Material Condition	Appx. Quantity	Asbestos Content
MAT-822-D2-02-TSI	Aux Machinery Room Upper Level – Steam Pipe to Seachest TSI Linear (Port)	Yellow TSI	N/A	Good	N/A	ND
MAT-822-D2-03	Aux Machinery Room Upper Level – Fire Main Pipe	Silver/Yellow Paint	N/A	Good	N/A	ND
MAT-822-D2-04-Vinyl	Engineer Stores – Condensation Pipe TSI Elbow (Aft)	White Vinyl	N/A	Good	N/A	ND
MAT-822-D2-04-Wrap	Engineer Stores – Condensation Pipe TSI Elbow (Aft)	White Wrap	N/A	Good	N/A	ND
MAT-822-D2-04-TSI	Engineer Stores – Condensation Pipe TSI Elbow (Aft)	White TSI	N/A	Good	N/A	ND
MAT-822-D2-05-Vinyl	Engineer Stores – Condensation Pipe TSI Elbow (Fwd)	White Vinyl	N/A	Good	N/A	ND
MAT-822-D2-05-Wrap	Engineer Stores – Condensation Pipe TSI Elbow (Fwd)	White/Beige Wrap	N/A	Good	N/A	ND
MAT-822-D2-05-TSI	Engineer Stores – Condensation Pipe TSI Elbow (Fwd)	White TSI	N/A	Good	N/A	ND
MAT-822-D2-06-Paint/Coating	Engineer Stores – Potable Water Pipe TSI Linear (Aft)	White Paint/Coating	N/A	Good	N/A	ND
MAT-822-D2-06-TSI	Engineer Stores – Potable Water Pipe TSI Linear (Aft)	Yellow TSI	N/A	Good	N/A	ND

Bulk Sample#	Sample Location	Material Description	Friable (Y/ N)	Material Condition	Appx. Quantity	Asbestos Content
MAT-822-D2-07	Engineer Stores – Sink Undercoating	Gray Insulation	N	Good	N/A	7% Chrysotile
MAT-822-D2-08	Engineer Stores – Sink Caulking	Gray Caulking	N/A	Good	N/A	ND
MAT-822-D2-09-Vinyl	Engine Room Upper Level – Condensation Pipe TSI Elbow (Aft/Port)	White Vinyl	N/A	Good	N/A	ND
MAT-822-D2-09-Wrap	Engine Room Upper Level – Condensation Pipe TSI Elbow (Aft/Port)	White/Beige Wrap	N/A	Good	N/A	ND
MAT-822-D2-09-TSI	Engine Room Upper Level – Condensation Pipe TSI Elbow (Aft/Port)	White TSI	N/A	Good	N/A	ND
MAT-822-D2-10	Engine Room Upper Level – Ceiling & Wall Insulation (Aft/Port)	White/Yellow Insulation	N/A	Good	N/A	ND
MAT-822-D2-11-Pegboard	Engine Room Upper Level – Wall Pegboard & Insulation (Fwd)	Beige Pegboard	N/A	Good	N/A	ND
MAT-822-D2-11-Insulation	Engine Room Upper Level – Wall Pegboard & Insulation (Fwd)	Black/Yellow Insulation	N/A	Good	N/A	ND
MAT-822-D2-13	Thaw Room Ext Wall – Pipe Coating	Black Tar	N/A	Good	N/A	ND
MAT-822-D2-14	Thaw Room Ext Wall – Piping Insulation	White/Black Insulation	N/A	Good	N/A	ND
MAT-823-D2-15	Steward SR 7 – Wall (Fwd)	White/Beige Wallboard	N/A	Damaged	N/A	ND

Bulk Sample#	Sample Location	Material Description	Friable (Y/ N)	Material Condition	Appx. Quantity	Asbestos Content
MAT-823-D2-16	Elevator Machine Room – Light Fixture Steel Mesh Wire	Black Packing	N	Good	N/A	50% Chrysotile
MAT-823-D2-17	Steward SR 2 – Baseboard Below Telephone	White Adhesive	N/A	Damaged	N/A	ND
MAT-823-D2-18-Foam	Steward SR 1 – Floor (Fwd/Port)	Black Foam	N/A	Damaged	N/A	ND
MAT-823-D2-18-Adhesive	Steward SR 1 – Floor (Fwd/Port)	Yellow Adhesive	N/A	Damaged	N/A	ND
MAT-823-D2-18-Flooring	Steward SR 1 – Floor (Fwd/Port)	Black/Green Flooring	N/A	Damaged	N/A	ND
MAT-823-D2-19-Flooring	Steward SR 7 – Floor (Fwd/Port)	Brown/Gray/Red Flooring	N/A	Damaged	N/A	ND
MAT-823-D2-19-Adhesive	Steward SR 7 – Floor (Fwd/Port)	Black/Yellow Adhesive	N/A	Damaged	N/A	ND
MAT-823-D2-20-Adhesive 1	Outside of Steward SR 7 – Baseboard (Aft/Stbd)	Tan Adhesive	N/A	Damaged	N/A	ND
MAT-823-D2-20-Adhesive 2	Outside of Steward SR 7 – Baseboard (Aft/Stbd)	Brown Adhesive	N	Damaged	N/A	2% Chrysotile
MAT-823-D2-21-Adhesive 1	Outside of Fan Room No. 3 – Baseboard (Fwd/Stbd Corner)	Yellow Adhesive	N/A	Damaged	N/A	ND
MAT-823-D2-21-Adhesive 2	Outside of Fan Room No. 3 – Baseboard (Fwd/Stbd Corner)	Brown Adhesive	N/A	Damaged	N/A	ND
MAT-823-D2-21-Adhesive 3	Outside of Fan Room No. 3 – Baseboard (Fwd/Stbd Corner)	Brown Adhesive	N	Damaged	N/A	2% Chrysotile

Bulk Sample#	Sample Location	Material Description	Friable (Y/ N)	Material Condition	Appx. Quantity	Asbestos Content
MAT-823-D2-22-Wall Pegboard	Fan Room No. 3 – Wall (Right of Doorway)	White Pegboard	N/A	Good	N/A	ND
MAT-823-D2-22-Insulation	Fan Room No. 3 – Wall (Right of Doorway)	Yellow Insulation	N/A	Good	N/A	ND
MAT-823-D2-23-Wrap	Fan Room No. 3 – TSI Elbow (Above Doorway)	Tan/White Wrap	N/A	Good	N/A	ND
MAT-823-D2-23-TSI	Fan Room No. 3 – TSI Elbow (Above Doorway)	Beige TSI	N/A	Good	N/A	ND
MAT-823-D2-24	Laundry Room – Floor (Beneath Sink)	Brown/Tan Flooring	N/A	Good	N/A	ND
MAT-823-D2-25	Laundry Room – Sink Piping	Green Caulking	N/A	Damaged	N/A	ND
MAT-823-D2-26-Flooring	Steward SR 3 – Floor (Outside of Bathroom)	Gray/Red/Black Flooring	N/A	Damaged	N/A	ND
MAT-823-D2-26-Adhesive	Steward SR 3 – Floor (Outside of Bathroom)	Yellow Adhesive	N/A	Damaged	N/A	ND
MAT-823-D2-27	Steward SR 3/1 Bathroom – Floor (Near Shower Drain)	Brown/White/ Blue Flooring	N/A	Good	N/A	ND
MAT-823-D2-28	Steward SR 7/5 Bathroom – Floor (Near Shower Drain)	Brown/Tan/ Beige Flooring	N/A	Good	N/A	ND
MAT-823-D2-29-Flooring	Steward SR 8 – Floor (Fwd/Stbd)	Gray/Red Flooring	N/A	Damaged	N/A	ND
MAT-823-D2-29-Adhesive	Steward SR 8 – Floor (Fwd/Stbd)	Beige	N/A	Damaged	N/A	ND

Bulk Sample#	Sample Location	Material Description	Friable (Y/ N)	Material Condition	Appx. Quantity	Asbestos Content
MAT-823-D2-30	Fwd Recreation Room – Wall (Aft)	Tan Wallboard	N/A	Damaged	N/A	ND

KEY: Ext = exterior; TSI = thermal system insulation; Fwd = forward; Stbd = starboard; SR = stateroom; ND = non-detect; N/A = not applicable

4.4 Asbestos Findings: Main Deck 3

Bulk Sample#	Sample Location	Material Description	Friable (Y/ N)	Material Condition	Appx. Quantity	Asbestos Content
MAT-822-D3-01-Wrap	Island Wall Insulation (Fwd/Stbd)	White Wrap	N/A	Good	N/A	ND
MAT-822-D3-01-Insulation	Island Wall Insulation (Fwd/Stbd)	Yellow Insulation	N/A	Good	N/A	ND
MAT-822-D3-02-Wrap 1	Island Wall Insulation (Aft/Stbd)	White Wrap	N/A	Good	N/A	ND
MAT-822-D3-02-Adhesive	Island Wall Insulation (Aft/Stbd)	White Adhesive	N/A	Good	N/A	ND
MAT-822-D3-02-Wrap 2	Island Wall Insulation (Aft/Stbd)	White Wrap	N/A	Good	N/A	ND
MAT-822-D3-02-Insulation	Island Wall Insulation (Aft/Stbd)	Yellow Insulation	N/A	Good	N/A	ND
MAT-822-D3-03-Wrap	Island Wall Insulation (Aft/Port)	White Wrap	N/A	Good	N/A	ND
MAT-822-D3-03-Insulation	Island Wall Insulation (Aft/Port)	Yellow Insulation	N/A	Good	N/A	ND

Bulk Sample#	Sample Location	Material Description	Friable (Y/ N)	Material Condition	Appx. Quantity	Asbestos Content
MAT-822-D3-04-Wrap	Island Wall Insulation (Fwd/Port)	White/Beige Wrap	N/A	Good	N/A	ND
MAT-822-D3-04-Insulation	Island Wall Insulation (Fwd/Port)	Tan Insulation	N/A	Good	N/A	ND
MAT-822-D3-05-Wrap	TSI Elbow (Near Deck Locker, Fwd/Stbd)	White Wrap	N/A	Good	N/A	ND
MAT-822-D3-05-Fibrous Material	TSI Elbow (Near Deck Locker, Fwd/Stbd)	White Fibrous Material	N/A	Good	N/A	ND
MAT-822-D3-05-TSI	TSI Elbow (Near Deck Locker, Fwd/Stbd)	Beige TSI	N/A	Good	N/A	ND
MAT-822-D3-06-Wrap	Condensation Pipe – TSI Elbow (Fwd/Stbd)	White/Black Wrap	N/A	Good	N/A	ND
MAT-822-D3-06-Fibrous Material	Condensation Pipe – TSI Elbow (Fwd/Stbd)	Tan Fibrous Material	N/A	Good	N/A	ND
MAT-822-D3-06-TSI	Condensation Pipe – TSI Elbow (Fwd/Stbd)	Gray TSI	N/A	Good	N/A	ND
MAT-822-D3-07	Upper Wall (Fwd/Stbd)	White Spray-On Texture	N/A	Good	N/A	ND
MAT-822-D3-08-Wrap	Car Lane 3 Ceiling – TSI Elbow (Aft/Stbd)	White Wrap	N/A	Good	N/A	ND
MAT-822-D3-08-Fibrous Material	Car Lane 3 Ceiling – TSI Elbow (Aft/Stbd)	White Fibrous Material	N/A	Good	N/A	ND
MAT-822-D3-08-TSI	Car Lane 3 Ceiling – TSI Elbow (Aft/Stbd)	Beige TSI	N/A	Good	N/A	ND

Bulk Sample#	Sample Location	Material Description	Friable (Y/ N)	Material Condition	Appx. Quantity	Asbestos Content
MAT-822-D3-09	Car Lane 3 Ceiling Beams (Aft/Stbd)	Spray-On Texture	N/A	Good	N/A	ND
MAT-822-D3-10-Wrap 1	Near Island Upper Wall, Fwd of Freight Elevator (Stbd)	White Wrap	N/A	Good	N/A	ND
MAT-822-D3-10-Wrap 2	Near Island Upper Wall, Fwd of Freight Elevator (Stbd)	White/Beige Wrap	N/A	Good	N/A	ND
MAT-822-D3-10-TSI	Near Island Upper Wall, Fwd of Freight Elevator (Stbd)	Tan TSI	N/A	Good	N/A	ND

KEY: Fwd = forward; Stbd = starboard; TSI = thermal system insulation; ND = non-detect; N/A = not applicable

4.5 Asbestos Findings: Gallery Deck 4

Bulk Sample#	Sample Location	Material Description	Friable (Y/ N)	Material Condition	Appx. Quantity	Asbestos Content
MAT-823-D4-01	Bosun Stores – Ceiling Near Hatch (Port)	Tan/White Spray-On Texture	N/A	Good	N/A	ND
MAT-823-D4-02	Bosun Stores – Ceiling Aft of Stbd Lockers	Tan/White Spray-On Texture	N/A	Good	N/A	ND
MAT-823-D4-03	Bosun Stores – Ceiling Above Workbench (Aft/Port)	White/Beige Spray-On Texture	N/A	Good	N/A	ND
MAT-823-D4-04-Floor Tile	Bosun Stores – Floor Fwd of Entryway	Gray/Blue Flooring	N/A	Good	N/A	ND
MAT-823-D4-04-Tar-Like Material	Bosun Stores – Floor Fwd of Entryway	Black/Rust Tar-Like Material	N/A	Good	N/A	ND

Bulk Sample#	Sample Location	Material Description	Friable (Y/ N)	Material Condition	Appx. Quantity	Asbestos Content
MAT-823-D4-05-Paint	Bosun Stores – Floor Port of Entryway	Gray/Blue Paint	N/A	Good	N/A	ND
MAT-823-D4-05-Adhesive	Bosun Stores – Floor Port of Entryway	Black Adhesive	N/A	Good	N/A	ND
MAT-823-D4-06	Bosun Stores – Incandescent Light Fixture (Stbd)	Black Packing	N	Good	N/A	25% Chrysotile
MAT-823-D4-07-Wrap	Bosun Stores – Ceiling Insulation Stbd of Hatch	White Wrap	N/A	Good	N/A	ND
MAT-823-D4-07-Insulation	Bosun Stores – Ceiling Stbd of Hatch	Yellow/Beige Insulation	N/A	Good	N/A	ND
MAT-823-D4-08-Wrap	Bosun Stores – Wall (Port)	White Wrap	N/A	Good	N/A	ND
MAT-823-D4-08-Insulation	Bosun Stores – Wall (Port)	Gray/Beige Insulation	N/A	Good	N/A	ND
MAT-823-D4-09-Mastic 1	Crew SR BO 8 – Floor (Fwd)	Yellow Mastic	N/A	Damaged	N/A	ND
MAT-823-D4-09-Floor Tile	Crew SR BO 8 – Floor (Fwd)	Gray 9” Floor Tile	N	Damaged	N/A	2% Chrysotile
MAT-823-D4-09-Mastic 2	Crew SR BO 8 – Floor (Fwd)	Black Mastic	N	Good	N/A	2% Chrysotile
MAT-823-D4-09-Flooring	Crew SR BO 8 – Floor (Fwd)	Gray/Black Flooring	N/A	Good	N/A	ND
MAT-823-D4-10	Crew SR BO 8 – Wall (Port)	Gray Wallboard	N	Good	N/A	20% Chrysotile

Bulk Sample#	Sample Location	Material Description	Friable (Y/ N)	Material Condition	Appx. Quantity	Asbestos Content
MAT-823-D4-11-Wallboard	Crew SR BO 8 – Wall/Baseboard (Fwd)	Gray Wallboard	N	Good	N/A	15% Amosite, 2% Chrysotile
MAT-823-D4-11-Adhesive 1	Crew SR BO 8 – Wall/Baseboard (Fwd)	Brown Adhesive	N/A	Damaged	N/A	ND
MAT-823-D4-11-Adhesive 2	Crew SR BO 8 – Wall/Baseboard (Fwd)	Beige Adhesive	N/A	Damaged	N/A	ND
MAT-823-D4-12	Crew SR BO 8 – HVAC Ducting	Gray Caulking	N/A	Good	N/A	ND
MAT-823-D4-13-Mastic 1	Crew SR 1 – Layered Flooring (In Front of Lockers)	Brown Mastic	N/A	Good	N/A	ND
MAT-823-D4-13-Mastic 2	Crew SR 1 – Layered Flooring (In Front of Lockers)	Yellow Mastic	N/A	Good	N/A	ND
MAT-823-D4-13-Floor Tile	Crew SR 1 – Layered Flooring (In Front of Lockers)	Gray Floor Tile	N	Good	N/A	2% Chrysotile
MAT-823-D4-13-Mastic 3	Crew SR 1 – Layered Flooring (In Front of Lockers)	Black Mastic	N	Good	N/A	2% Chrysotile
MAT-823-D4-13-Flooring	Crew SR 1 – Layered Flooring (In Front of Lockers)	Gray/Black Flooring	N/A	Good	N/A	ND
MAT-823-D4-14-Floor Tile	Crew SR Hallway Flooring (Aft/Port)	Gray 12” Floor Tile	N/A	Good	N/A	ND
MAT-823-D4-14-Mastic	Crew SR Hallway Flooring (Aft/Port)	Brown/Black Mastic	N/A	Good	N/A	ND
MAT-823-D4-15-Baseboard	Crew SR Hallway Baseboard (Aft/Port)	Black Baseboard	N/A	Good	N/A	ND

Bulk Sample#	Sample Location	Material Description	Friable (Y/ N)	Material Condition	Appx. Quantity	Asbestos Content
MAT-823-D4-15-Mastic	Crew SR Hallway Baseboard (Aft/Port)	Beige Mastic	N/A	Good	N/A	ND
MAT-823-D4-16-Baseboard	Crew SR Oiler – Baseboard (Left of Doorway)	Black Baseboard	N/A	Good	N/A	ND
MAT-823-D4-16-Mastic 1	Crew SR Oiler – Baseboard (Left of Doorway)	Yellow Mastic	N/A	Good	N/A	ND
MAT-823-D4-16-Mastic 2	Crew SR Oiler – Baseboard (Left of Doorway)	Black Mastic	N/A	Good	N/A	ND
MAT-823-D4-17-Carpet	Crew SR Oiler – Flooring (In front of Doorway)	Black/Blue Carpet	N/A	Good	N/A	ND
MAT-823-D4-17-Mastic	Crew SR Oiler – Flooring (In front of Doorway)	Beige Mastic	N/A	Good	N/A	ND
MAT-823-D4-17-Leveler	Crew SR Oiler – Flooring (In front of Doorway)	Brown Leveler	N/A	Good	N/A	ND
MAT-823-D4-18	Room 1 – Wall (Right of Sink)	Gray/Beige Wallboard	N	Good	N/A	10% Amosite, 5% Chrysotile
MAT-823-D4-19-Tile	Cleaning Gear Locker - Flooring	Tan/Beige Tile	N/A	Damaged	N/A	ND
MAT-823-D4-19-Grout	Cleaning Gear Locker - Flooring	Gray Grout	N/A	Damaged	N/A	ND
MAT-823-D4-19-Leveler	Cleaning Gear Locker - Flooring	Brown/Gray Leveler	N/A	Damaged	N/A	ND
MAT-823-D4-20-Tile	Cleaning Gear Locker - Flooring	Gray/Beige Tile	N/A	Damaged	N/A	ND

Bulk Sample#	Sample Location	Material Description	Friable (Y/ N)	Material Condition	Appx. Quantity	Asbestos Content
MAT-823-D4-20-Grout	Cleaning Gear Locker - Flooring	Gray Grout	N/A	Damaged	N/A	ND
MAT-823-D4-21-Coating/Mastic	Cleaning Gear Locker – TSI Elbow (Above Sink)	Yellow/Beige Coating/Mastic	N/A	Good	N/A	ND
MAT-823-D4-21-Mesh	Cleaning Gear Locker – TSI Elbow (Above Sink)	Beige Mesh	N/A	Good	N/A	ND
MAT-823-D4-21-TSI	Cleaning Gear Locker – TSI Elbow (Above Sink)	Gray TSI	Y	Good	N/A	10% Amosite, 15% Chrysotile
MAT-823-D4-22-Coating	Crew SR Hallway – Flooring (Aft/Port)	Gray Coating	N/A	Good	N/A	ND
MAT-823-D4-22-Concrete	Crew SR Hallway – Flooring (Aft/Port)	Brown/Gray Concrete	N/A	Good	N/A	ND
MAT-823-D4-22-Mastic-Like Material	Crew SR Hallway – Flooring (Aft/Port)	Black Mastic-Like Material	N/A	Good	N/A	ND
MAT-823-D4-23	Crew SR Oiler – HVAC Ducting (Above Doorway)	Gray Caulking	N/A	Good	N/A	ND
MAT-823-D4-24	Crew SR Hallway – Flooring Beneath Tile (Aft/Port)	Brown/White/ Black Flooring	N/A	Good	N/A	ND
MAT-823-D4-25-Caulk	Aft Stairwell (Left Corner)	Gray/Rust Caulking	N/A	Good	N/A	ND
MAT-823-D4-25-Mastic-Like Material	Aft Stairwell (Left Corner)	Black/Rust Mastic-Like Material	N/A	Good	N/A	ND

Bulk Sample#	Sample Location	Material Description	Friable (Y/ N)	Material Condition	Appx. Quantity	Asbestos Content
MAT-823-D4-26-Carpet	Crew SR Jr. Engr – Floor (Left of Doorway)	Brown/Black Carpet	N/A	Good	N/A	ND
MAT-823-D4-26-Mastic	Crew SR Jr. Engr – Floor (Left of Doorway)	Tan Mastic	N/A	Good	N/A	ND
MAT-823-D4-27-Mastic 1	Crew SR Jr. Engr – Floor (Left of Doorway)	Yellow Mastic	N/A	Good	N/A	ND
MAT-823-D4-27-Floor Tile	Crew SR Jr. Engr – Floor (Left of Doorway)	Gray/White/ Green 9” Floor Tile	N	Good	N/A	2% Chrysotile
MAT-823-D4-27-Mastic 2	Crew SR Jr. Engr – Floor (Left of Doorway)	Black Mastic	N	Good	N/A	8% Chrysotile
MAT-823-D4-32	Crew SR Restroom – Floor	Blue Flooring	N/A	Good	N/A	ND
MAT-823-D4-33	Crew SR Restroom – Threshold to Toilets	Black Threshold	N/A	Good	N/A	ND
MAT-823-D4-34	Crew SR Restroom – Floor	Tan Flooring	N/A	Good	N/A	ND
MAT-823-D4-35-Pegboard	Fan Room No. 1 – Wall (Fwd)	White Pegboard	N/A	Good	N/A	ND
MAT-823-D4-35-Insulation	Fan Room No. 1 – Wall (Fwd)	Black/Yellow Insulation	N/A	Good	N/A	ND
MAT-823-D4-36	Crew SR 5 – Sink Caulking	White Caulking	N/A	Good	N/A	ND

KEY: Fwd = forward; Stbd = starboard; SR = stateroom; TSI = thermal system insulation; ND = non-detect; N/A = not applicable

4.6 Asbestos Findings: Cabin Deck 5

Bulk Sample#	Sample Location	Material Description	Friable (Y/ N)	Material Condition	Appx. Quantity	Asbestos Content
MAT-824-D5-01-Mastic 1	Stbd Hallway – Floor (Near SR 9D)	Yellow Mastic	N/A	Good	N/A	ND
MAT-824-D5-01-Leveler	Stbd Hallway – Floor (Near SR 9D)	Yellow/Beige Leveler	N/A	Good	N/A	ND
MAT-824-D5-01-Mastic 2	Stbd Hallway – Floor (Near SR 9D)	Green Mastic	N/A	Good	N/A	ND
MAT-824-D5-02-Mastic 1	Port Hallway – Floor (Between Stairs & SR 16)	Yellow/Beige Mastic	N/A	Good	N/A	ND
MAT-824-D5-02-Leveler	Port Hallway – Floor (Between Stairs & SR 16)	Beige Leveler	N/A	Good	N/A	ND
MAT-824-D5-02-Mastic 2	Port Hallway – Floor (Between Stairs & SR 16)	Green Mastic	N/A	Good	N/A	ND
MAT-824-D5-03-Mastic 1	Stbd Hallway – Floor (Between Stairs & SR 23)	Yellow Mastic	N/A	Good	N/A	ND
MAT-824-D5-03-Leveler	Stbd Hallway – Floor (Between Stairs & SR 23)	Gray Leveler	N/A	Good	N/A	ND
MAT-824-D5-03-Mastic 2	Stbd Hallway – Floor (Between Stairs & SR 23)	Green Mastic	N/A	Good	N/A	ND
MAT-824-D5-04-Flooring 1	Stairwell Platform – Floor (Stairs Between SR 23 & 24)	Blue/Beige Flooring	N/A	Good	N/A	ND

Bulk Sample#	Sample Location	Material Description	Friable (Y/ N)	Material Condition	Appx. Quantity	Asbestos Content
MAT-824-D5-04-Mastic	Stairwell Platform – Floor (Stairs Between SR 23 & 24)	Beige Mastic	N/A	Good	N/A	ND
MAT-824-D5-04-Flooring 2	Stairwell Platform – Floor (Stairs Between SR 23 & 24)	Red/White/ Black Flooring	N/A	Good	N/A	ND
MAT-824-D5-05-Adhesive 1	Port Hallway – Baseboard (Left of FS 38)	Beige Adhesive	N/A	Good	N/A	ND
MAT-824-D5-05-Adhesive 2	Port Hallway – Baseboard (Left of FS 38)	Brown Adhesive	N	Good	N/A	<1% Chrysotile
MAT-824-D5-06-Adhesive 1	Stbd Hallway – Baseboard (Left of FSD 47)	Beige Adhesive	N/A	Good	N/A	ND
MAT-824-D5-06-Adhesive 2	Stbd Hallway – Baseboard (Left of FSD 47)	Tan/Rust Adhesive	N/A	Good	N/A	ND
MAT-824-D5-06-Adhesive 3	Stbd Hallway – Baseboard (Left of FSD 47)	Brown Adhesive	N	Good	N/A	<1% Chrysotile
MAT-824-D5-07-Flooring	First Aid Room – Laminate Flooring	Gray/White Flooring	N	Good	N/A	6% Chrysotile
MAT-824-D5-07-Adhesive	First Aid Room – Laminate Flooring	Clear Adhesive	N/A	Good	N/A	ND
MAT-824-D5-07-Leveler	First Aid Room – Laminate Flooring	Gray/Black Leveler	N/A	Good	N/A	ND
MAT-824-D5-08-Pegboard	Fan Room No. 5 – Wall (Right of Door)	White Pegboard	N/A	Good	N/A	ND
MAT-824-D5-08-Insulation	Fan Room No. 5 – Wall (Right of Door)	Yellow Insulation	N/A	Good	N/A	ND

Bulk Sample#	Sample Location	Material Description	Friable (Y/ N)	Material Condition	Appx. Quantity	Asbestos Content
MAT-824-D5-09-Carpet	SR 1B – Floor (Beneath Bed)	Tan/Black Carpet	N/A	Good	N/A	ND
MAT-824-D5-09-Mastic	SR 1B – Floor (Beneath Bed)	Brown/Tan Mastic	N/A	Good	N/A	ND
MAT-824-D5-10-Carpet	Stbd Hallway – Floor (Fwd, Near Ice Dispenser)	Black Carpet	N/A	Good	N/A	ND
MAT-824-D5-10-Mastic	Stbd Hallway – Floor (Fwd, Near Ice Dispenser)	Yellow/Green Mastic	N/A	Good	N/A	ND
MAT-824-D5-11-Carpet	Port Hallway – Floor (Near FSD 44)	Gray/Black Carpet	N/A	Good	N/A	ND
MAT-824-D5-11-Mastic	Port Hallway – Floor (Near FSD 44)	Brown/Tan Mastic	N/A	Good	N/A	ND
MAT-824-D5-11-Compound-Like Material	Port Hallway – Floor (Near FSD 44)	White Compound-Like Material	N/A	Good	N/A	ND
MAT-824-D5-12-Mastic 1	Hallway – Floor (Across from SR 33C)	Green Mastic	N/A	Good	N/A	ND
MAT-824-D5-12-Mastic 2	Hallway – Floor (Across from SR 33C)	Yellow Mastic	N/A	Good	N/A	ND
MAT-824-D5-12-Leveler-Like Material	Hallway – Floor (Across from SR 33C)	White Leveler	N	Good	N/A	<1% Chrysotile
MAT-824-D5-13	Fwd Exit to Outer Deck – Floor (Beneath Doorway to Cabins)	Tan Flooring	N/A	Good	N/A	ND

Bulk Sample#	Sample Location	Material Description	Friable (Y/ N)	Material Condition	Appx. Quantity	Asbestos Content
MAT-824-D5-14	Fwd Exit to Outer Deck – Floor (Beneath Doorway to Outer Deck)	Brown Flooring	N/A	Good	N/A	ND
MAT-824-D5-15-Pegboard	Fwd Entryway to Outer Deck – Wall (Near Doorway to Outer Deck)	White Pegboard	N/A	Good	N/A	ND
MAT-824-D5-15-Insulation	Fwd Entryway to Outer Deck – Wall (Near Doorway to Outer Deck)	Yellow Insulation	N/A	Good	N/A	ND
MAT-824-D5-16-Floor Tile	Fwd Entryway to Outer Deck – Floor Tile (Top of Stairwell)	Gray Floor Tile	N/A	Good	N/A	ND
MAT-824-D5-16-Mastic	Fwd Entryway to Outer Deck – Floor Tile (Top of Stairwell)	Black/Yellow Mastic	N/A	Good	N/A	ND
MAT-824-D5-17	Fwd Entryway to Outer Deck – Floor Beneath Tile (Top of Stairwell)	Brown Flooring	N/A	Good	N/A	ND
MAT-824-D5-18-Caulk 1	SR 1B – Window Caulking	Black Caulking	N/A	Good	N/A	ND
MAT-824-D5-18-Caulk 2	SR 1B – Window Caulking	Clear Caulking	N/A	Good	N/A	ND
MAT-824-D5-19	SR 1B – Bathroom Flooring	Tan Flooring	N/A	Good	N/A	ND
MAT-824-D5-20-Caulk 1	SR 1B – Sink Caulking	White Caulking	N/A	Good	N/A	ND
MAT-824-D5-20-Caulk 2	SR 1B – Sink Caulking	Beige Caulking	N/A	Good	N/A	ND

Bulk Sample#	Sample Location	Material Description	Friable (Y/ N)	Material Condition	Appx. Quantity	Asbestos Content
MAT-824-D5-21	SR 1B – Shower Flooring	Tan Flooring	N/A	Good	N/A	ND
MAT-824-D5-22-Caulk	SR 3B – Window Caulking	Black Caulking	N/A	Good	N/A	ND
MAT-824-D5-22-Adhesive	SR 3B – Window Caulking	Brown Adhesive	N/A	Good	N/A	ND
MAT-824-D5-23	SR 3B – Wall (Fwd/Stbd)	White Wallboard	N/A	Good	N/A	ND
MAT-824-D5-24	FSD 35 – Door Jamb	White Fibrous Insulation Strip	N/A	Good	N/A	ND
MAT-824-D5-25	SR Senior Purser – Shower Flooring	Gray/Tan/Black Flooring	N/A	Good	N/A	ND
MAT-824-D5-26-Carpet	SR 3B – Floor (Beneath Wall-Mounted Table)	Gray/Blue Carpet	N/A	Good	N/A	ND
MAT-824-D5-26-Mastic	SR 3B – Floor (Beneath Wall-Mounted Table)	Yellow Mastic	N/A	Good	N/A	ND
MAT-824-D5-26-Pad	SR 3B – Floor (Beneath Wall-Mounted Table)	Black Pad	N/A	Good	N/A	ND
MAT-824-D5-27	SR 3B – Shower Flooring	Brown/Beige Flooring	N/A	Good	N/A	ND
MAT-824-D5-28	SR 3B – Bathroom Floor	Tan Flooring	N/A	Good	N/A	ND
MAT-824-D5-29	SR Senior Purser – Floor	Green Flooring	N/A	Good	N/A	ND

Bulk Sample#	Sample Location	Material Description	Friable (Y/ N)	Material Condition	Appx. Quantity	Asbestos Content
MAT-824-D5-30	SR Senior Purser – Baseboard	Yellow/Green Adhesive	N/A	Good	N/A	ND
MAT-824-D5-31-Caulk 1	SR 3B – Sink Caulking	White Caulking	N/A	Good	N/A	ND
MAT-824-D5-31-Caulk 2	SR 3B – Sink Caulking	Beige Caulking	N/A	Good	N/A	ND
MAT-824-D5-32	SR Senior Purser – Sink Caulking	White Caulking	N/A	Good	N/A	ND
MAT-824-D5-33	SR Senior Purser – Bathroom Flooring	Tan Flooring	N/A	Good	N/A	ND
MAT-824-D5-35	SR 14B – Floor (Beneath Bed)	Black/Yellow Mastic	N/A	Good	N/A	ND
MAT-824-D5-36-Caulk 1	SR 14B – Sink Caulking	White Caulking	N/A	Good	N/A	ND
MAT-824-D5-36-Caulk 2	SR 14B – Sink Caulking	Beige Caulking	N/A	Good	N/A	ND
MAT-824-D5-37-Mastic 1	Foyer – Wood Panel Flooring (Port, Near Carpet Threshold)	Clear Mastic	N/A	Good	N/A	ND
MAT-824-D5-37-Wood Panel Flooring	Foyer – Wood Panel Flooring (Port, Near Carpet Threshold)	Brown Wood Panel Flooring	N/A	Good	N/A	ND
MAT-824-D5-37-Mastic 2	Foyer – Wood Panel Flooring (Port, Near Carpet Threshold)	Gray/Yellow Mastic	N/A	Good	N/A	ND
MAT-824-D5-37-Leveler 1	Foyer – Wood Panel Flooring (Port, Near Carpet Threshold)	Gray Leveler	N/A	Good	N/A	ND

Bulk Sample#	Sample Location	Material Description	Friable (Y/ N)	Material Condition	Appx. Quantity	Asbestos Content
MAT-824-D5-37-Mastic 3	Foyer – Wood Panel Flooring (Port, Near Carpet Threshold)	Yellow/Green Mastic	N/A	Good	N/A	ND
MAT-824-D5-37-Leveler 2	Foyer – Wood Panel Flooring (Port, Near Carpet Threshold)	White Leveler	N/A	Good	N/A	ND
MAT-824-D5-38-Mastic	SR 34C – Floor (Beneath Bed)	Black/Yellow Mastic	N/A	Good	N/A	ND
MAT-824-D5-38-Leveler	SR 34C – Floor (Beneath Bed)	Gray Leveler	N/A	Good	N/A	ND

KEY: Fwd = forward; Stbd = starboard; SR = stateroom; FSD = fire screen door; FS = fire station; ND = non-detect; N/A = not applicable

4.7 Asbestos Findings: Boat Deck 6

Bulk Sample#	Sample Location	Material Description	Friable (Y/ N)	Material Condition	Appx. Quantity	Asbestos Content
MAT-823-D6-01	Cocktail Lounge – Floor (Fwd/Stbd, Near Seating)	Gray/Beige Mastic	N/A	Good	N/A	ND
MAT-823-D6-02-Carpet	Cocktail Lounge – Floor (Aft/Port, Near Seating)	Gray/Blue/ Purple Carpet	N/A	Good	N/A	ND
MAT-823-D6-02-Mastic 1	Cocktail Lounge – Floor (Aft/Port, Near Seating)	Yellow Mastic	N/A	Good	N/A	ND
MAT-823-D6-02-Flooring	Cocktail Lounge – Floor (Aft/Port, Near Seating)	White/Black Flooring	N/A	Good	N/A	ND
MAT-823-D6-02-Mastic 2	Cocktail Lounge – Floor (Aft/Port, Near Seating)	Green Mastic	N/A	Good	N/A	ND

Bulk Sample#	Sample Location	Material Description	Friable (Y/ N)	Material Condition	Appx. Quantity	Asbestos Content
MAT-823-D6-03-Mastic 1	Observation Lounge - Floor (Mid)	Yellow Mastic	N/A	Good	N/A	ND
MAT-823-D6-03-Mastic 2	Observation Lounge - Floor (Mid)	Gray/Beige Mastic	N/A	Good	N/A	ND
MAT-823-D6-03-Leveler	Observation Lounge - Floor (Mid)	Gray Leveler	N/A	Good	N/A	ND
MAT-823-D6-04-Mastic 1	Observation Lounge – Server Room Floor	Green Mastic	N/A	Good	N/A	ND
MAT-823-D6-04-Mastic 2	Observation Lounge – Server Room Floor	Yellow Mastic	N/A	Good	N/A	ND
MAT-823-D6-04-Leveler	Observation Lounge – Server Room Floor	Gray Leveler	N/A	Good	N/A	ND
MAT-823-D6-05-Wall Covering	Cocktail Lounge – Bar Wall Covering	Black Wall Covering	N/A	Good	N/A	ND
MAT-823-D6-05-Mastic	Cocktail Lounge – Bar Wall Covering	Brown Mastic	N/A	Good	N/A	ND
MAT-823-D6-06-Rubber Flooring	Cocktail Lounge – Bar Flooring	Black Rubber Flooring	N/A	Good	N/A	ND
MAT-823-D6-06-Mastic	Cocktail Lounge – Bar Flooring	Beige Mastic	N/A	Good	N/A	ND
MAT-823-D6-07-Mastic 1	Port Hallway – Floor (Outside of Cocktail Lounge Aft Doorway)	Blue Mastic	N/A	Good	N/A	ND
MAT-823-D6-07-Leveler	Port Hallway – Floor (Outside of Cocktail Lounge Aft Doorway)	Gray Leveler	N/A	Good	N/A	ND

Bulk Sample#	Sample Location	Material Description	Friable (Y/ N)	Material Condition	Appx. Quantity	Asbestos Content
MAT-823-D6-07-Mastic 2	Port Hallway – Floor (Outside of Cocktail Lounge Aft Doorway)	Yellow Mastic	N/A	Good	N/A	ND
MAT-823-D6-07-Flooring	Port Hallway – Floor (Outside of Cocktail Lounge Aft Doorway)	White/Black Flooring	N/A	Good	N/A	ND
MAT-823-D6-08-Mastic	Port Hallway – Floor (Below FS 20)	Beige Mastic	N/A	Good	N/A	ND
MAT-823-D6-08-Pad	Port Hallway – Floor (Below FS 20)	Gray Pad	N/A	Good	N/A	ND
MAT-823-D6-09-Mastic 1	Port Hallway – Floor (Near Women’s Restroom)	Yellow Mastic	N/A	Good	N/A	ND
MAT-823-D6-09-Mastic 2	Port Hallway – Floor (Near Women’s Restroom)	Gray/Blue Mastic	N/A	Good	N/A	ND
MAT-823-D6-10-Mastic 1	Foyer – Floor (Below FS 18)	Yellow Mastic	N/A	Good	N/A	ND
MAT-823-D6-10-Leveler	Foyer – Floor (Below FS 18)	Gray Leveler	N/A	Good	N/A	ND
MAT-823-D6-10-Mastic 2	Foyer – Floor (Below FS 18)	Yellow Mastic	N/A	Good	N/A	ND
MAT-823-D6-11-Mastic 1	Hallway – Floor (Stbd, Aft Stairwell)	Green Mastic	N/A	Good	N/A	ND
MAT-823-D6-11-Mastic 2	Hallway – Floor (Stbd, Aft Stairwell)	Yellow Mastic	N/A	Good	N/A	ND
MAT-823-D6-11-Leveler	Hallway – Floor (Stbd, Aft Stairwell)	Gray Leveler	N/A	Good	N/A	ND

Bulk Sample#	Sample Location	Material Description	Friable (Y/ N)	Material Condition	Appx. Quantity	Asbestos Content
MAT-823-D6-12-Mastic 1	Cafeteria Serving Area Hallway – Floor	Yellow Mastic	N/A	Good	N/A	ND
MAT-823-D6-12-Mastic 2	Cafeteria Serving Area Hallway – Floor	Green Mastic	N/A	Good	N/A	ND
MAT-823-D6-12-Leveler	Cafeteria Serving Area Hallway – Floor	Gray Leveler	N/A	Good	N/A	ND
MAT-823-D6-13-Baseboard	Cocktail Lounge – Bar Baseboard (Port)	Black Baseboard	N/A	Good	N/A	ND
MAT-823-D6-13-Mastic 1	Cocktail Lounge – Bar Baseboard (Port)	Yellow Mastic	N/A	Good	N/A	ND
MAT-823-D6-13-Silver Paint	Cocktail Lounge – Bar Baseboard (Port)	Silver Paint	N/A	Good	N/A	ND
MAT-823-D6-13-Mastic 2	Cocktail Lounge – Bar Baseboard (Port)	Brown Mastic	N/A	Good	N/A	ND
MAT-823-D6-13-Leveler	Cocktail Lounge – Bar Baseboard (Port)	Gray Leveler	N/A	Good	N/A	ND
MAT-823-D6-14	Cocktail Lounge – Storeroom Wall	White Wallboard	N/A	Damaged	N/A	ND
MAT-823-D6-15	Cocktail Lounge – Ceiling Above Bar	Ceiling Tile (Circular Speckles)	N/A	Good	N/A	ND
MAT-823-D6-16	Cocktail Lounge – Ceiling (Near Fwd Wall)	Ceiling Tile (Elongated Speckles)	N/A	Good	N/A	ND
MAT-823-D6-17	Cocktail Lounge – Ceiling (Fwd/Stbd Storage Room)	Ceiling Tile (Textured)	N/A	Good	N/A	ND

Bulk Sample#	Sample Location	Material Description	Friable (Y/ N)	Material Condition	Appx. Quantity	Asbestos Content
MAT-824-D6-18-Floor Tile	Cafeteria – Floor (Fwd, Near Drain)	Dark Blue Floor Tile	N/A	Good	N/A	ND
MAT-824-D6-18-Mastic	Cafeteria – Floor (Fwd, Near Drain)	Black Mastic	N/A	Good	N/A	ND
MAT-824-D6-19-Floor Tile	Cafeteria – Floor (Aft, Near Drain)	Light Blue Floor Tile	N/A	Good	N/A	ND
MAT-824-D6-19-Mastic	Cafeteria – Floor (Aft, Near Drain)	Yellow Mastic	N/A	Good	N/A	ND
MAT-824-D6-19-Leveler 1	Cafeteria – Floor (Aft, Near Drain)	Gray Leveler	N/A	Good	N/A	ND
MAT-824-D6-19-Leveler 2	Cafeteria – Floor (Aft, Near Drain)	Red Leveler	N	Good	N/A	<1% Chrysotile
MAT-824-D6-20-Baseboard	Cafeteria – Baseboard (Fwd/Stbd, Seating Area)	Blue Baseboard	N/A	Good	N/A	ND
MAT-824-D6-20-Mastic	Cafeteria – Baseboard (Fwd/Stbd, Seating Area)	Beige Mastic	N/A	Good	N/A	ND
MAT-824-D6-21	Cafeteria – Window (Aft/Stbd, Behind Seating Area)	Black Caulking	N/A	Good	N/A	ND
MAT-824-D6-22-Flooring	Galley – Floor (Aft/Port, Entrance from Cafeteria)	Green Flooring	N/A	Good	N/A	ND
MAT-824-D6-23-Flooring	Galley – Floor (Aft/Stbd, Entrance from Cafeteria)	Green Flooring	N/A	Good	N/A	ND
MAT-824-D6-23-Mastic	Galley – Floor (Aft/Stbd, Entrance from Cafeteria)	Yellow Mastic	N/A	Good	N/A	ND

Bulk Sample#	Sample Location	Material Description	Friable (Y/ N)	Material Condition	Appx. Quantity	Asbestos Content
MAT-824-D6-24-Ceramic Tile	Port Hallway – Men’s Restroom Flooring	White Ceramic Tile	N/A	Good	N/A	ND
MAT-824-D6-24-Grout	Port Hallway – Men’s Restroom Flooring	Gray Grout	N/A	Good	N/A	ND
MAT-824-D6-24-Leveler	Port Hallway – Men’s Restroom Flooring	Gray Leveler	N/A	Good	N/A	ND
MAT-824-D6-25	Port Hallway – Window (Near Galley)	Clear Caulking	N/A	Good	N/A	ND
MAT-824-D6-26-Flooring 1	Women’s Fwd Restroom – Floor	Black/Clear Flooring	N/A	Good	N/A	ND
MAT-824-D6-26-Flooring 2	Women’s Fwd Restroom – Floor	White/Blue Flooring	N/A	Good	N/A	ND
MAT-824-D6-27-Mastic 1	Hallway – Baseboard (Fwd/Port, Near Exit to Outer Deck)	Yellow Mastic	N/A	Good	N/A	ND
MAT-824-D6-27-Mastic 2	Hallway – Baseboard (Fwd/Port, Near Exit to Outer Deck)	Beige Mastic	N/A	Good	N/A	ND
MAT-824-D6-28-Laminate Flooring	Hallway – Baseboard (Fwd/Port, Near Exit to Outer Deck)	Blue Laminate Flooring	N/A	Good	N/A	ND
MAT-824-D6-28-Mastic	Hallway – Baseboard (Fwd/Port, Near Exit to Outer Deck)	Beige Mastic	N/A	Good	N/A	ND
MAT-824-D6-28-Leveler	Hallway – Baseboard (Fwd/Port, Near Exit to Outer Deck)	Gray Leveler	N/A	Good	N/A	ND
MAT-824-D6-30	Unisex Restroom – Floor (Near Doorway)	Brown/Gray/Tan Flooring	N/A	Good	N/A	ND

Bulk Sample#	Sample Location	Material Description	Friable (Y/ N)	Material Condition	Appx. Quantity	Asbestos Content
MAT-824-D6-31-Flooring	Unisex Restroom – Floor (Near Shower)	Brown/Gray/Tan Flooring	N/A	Good	N/A	ND
MAT-824-D6-31-Leveler	Unisex Restroom – Floor (Near Shower)	Red Leveler	N	Good	N/A	<1% Chrysotile
MAT-824-D6-36-Rubber	Galley – Threshold (Port Entrance from Cafeteria)	Black Rubber	N/A	Good	N/A	ND
MAT-824-D6-36-Mastic	Galley – Threshold (Port Entrance from Cafeteria)	Black Mastic	N/A	Good	N/A	ND
MAT-825-EXT-02	Cafeteria – Exterior Window (Stbd)	Black Caulking	N/A	Good	N/A	ND
MAT-825-EXT-03-Caulk 1	Cafeteria – Exterior Window (Stbd)	White/Yellow Caulking	N/A	Good	N/A	ND
MAT-825-EXT-03-Caulk 2	Cafeteria – Exterior Window (Stbd)	Black Caulking	N/A	Good	N/A	ND

KEY: Fwd = forward; Stbd = starboard; FS = fire station; ND = non-detect; N/A = not applicable

4.8 Asbestos Findings: Bridge Deck 7

Bulk Sample#	Sample Location	Material Description	Friable (Y/ N)	Material Condition	Appx. Quantity	Asbestos Content
MAT-824-D7-01-Baseboard	SR Third Mate – Closet Baseboard	Black Baseboard	N/A	Good	N/A	ND
MAT-824-D7-01-Mastic	SR Third Mate – Closet Baseboard	Brown Mastic	N	Good	N/A	2% Chrysotile

Bulk Sample#	Sample Location	Material Description	Friable (Y/ N)	Material Condition	Appx. Quantity	Asbestos Content
MAT-824-D7-02	SR Third Mate – Baseboard (Right of Restroom Entrance)	Brown Mastic	N	Good	N/A	2% Chrysotile
MAT-824-D7-03-Mastic 1	SR Third Mate – Closet Floor	Black Mastic	N	Good	N/A	3% Chrysotile
MAT-824-D7-03-Floor Tile	SR Third Mate – Closet Floor	Tan Floor Tile	N	Good	N/A	2% Chrysotile
MAT-824-D7-03-Mastic 2	SR Third Mate – Closet Floor	Yellow Mastic	N/A	Good	N/A	ND
MAT-824-D7-03-Foam	SR Third Mate – Closet Floor	Black Foam	N/A	Good	N/A	ND
MAT-824-D7-04	Recliner Lounge – Ceiling (Port, Near Exit to Foyer)	Ceiling Tile (Circular Speckles)	N/A	Good	N/A	ND
MAT-824-D7-05	Recliner Lounge – Ceiling (Fwd/Port, Above TV)	Ceiling Tile (Raised Texture)	N/A	Good	N/A	ND
MAT-824-D7-06	Recliner Lounge – Ceiling (Aft/Stbd, Near Exit Doorway)	Ceiling Tile (Elongated Texture)	N/A	Good	N/A	ND
MAT-824-D7-07	Recliner Lounge – Ceiling (Aft/Stbd)	Ceiling Tile (Elongated Speckles)	N/A	Good	N/A	ND
MAT-824-D7-08-Mastic 1	Foyer – Floor (Port, Top of Stairwell)	Blue Mastic	N/A	Good	N/A	ND
MAT-824-D7-08-Mastic 2	Foyer – Floor (Port, Top of Stairwell)	Yellow Mastic	N/A	Good	N/A	ND
MAT-824-D7-08-Leveler	Foyer – Floor (Port, Top of Stairwell)	Gray Leveler	N/A	Good	N/A	ND

Bulk Sample#	Sample Location	Material Description	Friable (Y/ N)	Material Condition	Appx. Quantity	Asbestos Content
MAT-824-D7-09-Mastic 1	Recliner Lounge – Floor (Fwd/Stbd, Near Exit to Foyer)	Green Mastic	N/A	Good	N/A	ND
MAT-824-D7-09-Mastic 2	Recliner Lounge – Floor (Fwd/Stbd, Near Exit to Foyer)	Yellow Mastic	N/A	Good	N/A	ND
MAT-824-D7-09-Leveler	Recliner Lounge – Floor (Fwd/Stbd, Near Exit to Foyer)	Gray Leveler	N/A	Good	N/A	ND
MAT-824-D7-10-Laminate Flooring	Foyer – Floor (Fwd/Stbd, Near Exit to Outer Deck)	Tan/Blue Laminate Flooring	N/A	Good	N/A	ND
MAT-824-D7-10-Mastic	Foyer – Floor (Fwd/Stbd, Near Exit to Outer Deck)	Beige Mastic	N/A	Good	N/A	ND
MAT-824-D7-11-Mastic 1	Recliner Lounge – Floor (Aft/Port, Near FSD 82)	Blue Mastic	N/A	Good	N/A	ND
MAT-824-D7-11-Mastic 2	Recliner Lounge – Floor (Aft/Port, Near FSD 82)	Yellow Mastic	N/A	Good	N/A	ND
MAT-824-D7-12	Recliner Lounge – Women’s Restroom Baseboard (Port)	White Caulking	N/A	Good	N/A	ND
MAT-824-D7-13	FSD 82 – Door Caulking	Gray/Clear Caulking	N/A	Good	N/A	ND
MAT-824-D7-14-Mastic 1	Aft/Port Exit to Outer Deck - Baseboard	Beige Mastic	N/A	Good	N/A	ND
MAT-824-D7-14-Tape	Aft/Port Exit to Outer Deck - Baseboard	Yellow Tape	N/A	Good	N/A	ND
MAT-824-D7-14-Mastic 2	Aft/Port Exit to Outer Deck - Baseboard	Brown/White Mastic	N	Good	N/A	<1% Chrysotile

Bulk Sample#	Sample Location	Material Description	Friable (Y/ N)	Material Condition	Appx. Quantity	Asbestos Content
MAT-824-D7-15	Recliner Lounge – Baseboard (Outside of Women’s Restroom)	Yellow Mastic	N/A	Damaged	N/A	ND
MAT-824-D7-16	Recliner Lounge – Men’s Restroom Wall (Right of Stalls)	Brown/White Wallboard	N/A	Good	N/A	ND
MAT-824-D7-17	Recliner Lounge – Men’s Showers Caulking (Aft Shower Stall)	Gray Caulking	N/A	Good	N/A	ND
MAT-824-D7-18	Fidley – Door (Port, Int)	Gray Caulking	N/A	Good	N/A	ND
MAT-824-D7-19	Fidley – HVAC Ducting (Aft/Stbd)	White Caulking	N/A	Good	N/A	ND
MAT-825-D7-20-Flooring	Recliner Lounge – Women’s Shower Floor	Red Flooring	N/A	Good	N/A	ND
MAT-825-D7-20-Mastic	Recliner Lounge – Women’s Shower Floor	Tan Mastic	N/A	Good	N/A	ND
MAT-825-D7-21-Flooring	Aft/Stbd Exit to Outer Deck - Floor	Gray/Green Flooring	N/A	Good	N/A	ND
MAT-825-D7-21-Mastic	Aft/Stbd Exit to Outer Deck - Floor	Gray/Tan/Clear Mastic	N/A	Good	N/A	ND
MAT-825-D7-22	Recliner Lounge – Men’s Restroom Floor	Tan Flooring	N/A	Good	N/A	ND
MAT-825-D7-23-Mastic	Officer SR Hallway – Floor (Aft/Stbd Corner)	Yellow Mastic	N/A	Good	N/A	ND
MAT-825-D7-23-Flooring	Officer SR Hallway – Floor (Aft/Stbd Corner)	Brown/White Flooring	N/A	Good	N/A	ND

Bulk Sample#	Sample Location	Material Description	Friable (Y/ N)	Material Condition	Appx. Quantity	Asbestos Content
MAT-825-D7-24-Mastic 1	Officer SR Hallway – Floor (Fwd/Stbd Corner)	Yellow Mastic	N/A	Good	N/A	ND
MAT-825-D7-24-Floor Tile	Officer SR Hallway – Floor (Fwd/Stbd Corner)	Pink Floor Tile	N	Good	N/A	2% Chrysotile
MAT-825-D7-24-Mastic 2	Officer SR Hallway – Floor (Fwd/Stbd Corner)	Black Mastic	N	Good	N/A	3% Chrysotile
MAT-825-D7-24-Flooring	Officer SR Hallway – Floor (Fwd/Stbd Corner)	Brown Flooring	N/A	Good	N/A	ND
MAT-825-D7-25-Carpet	Wheelhouse – Floor (Near Port Exit to Outer Deck)	Gray/Black Carpet	N/A	Good	N/A	ND
MAT-825-D7-25-Adhesive	Wheelhouse – Floor (Near Port Exit to Outer Deck)	Gray/Clear Adhesive	N/A	Good	N/A	ND
MAT-825-D7-25-Underlayment	Wheelhouse – Floor (Near Port Exit to Outer Deck)	Gray Underlayment	N/A	Good	N/A	ND
MAT-825-D7-26-Underlayment	SR Captain – Floor (In Front of Door to Hallway)	Gray Underlayment	N/A	Good	N/A	ND
MAT-825-D7-26-Adhesive 1	SR Captain – Floor (In Front of Door to Hallway)	Gray/Clear Adhesive	N/A	Good	N/A	ND
MAT-825-D7-26-Adhesive 2	SR Captain – Floor (In Front of Door to Hallway)	Yellow Adhesive	N/A	Good	N/A	ND
MAT-825-D7-26-Flooring	SR Captain – Floor (In Front of Door to Hallway)	Brown Flooring	N/A	Good	N/A	ND
MAT-825-D7-27-Adhesive	SR Captain – Bedroom Floor (In Front of Door to Office)	Yellow Adhesive	N/A	Good	N/A	ND

Bulk Sample#	Sample Location	Material Description	Friable (Y/ N)	Material Condition	Appx. Quantity	Asbestos Content
MAT-825-D7-27-Underlayment	SR Captain – Bedroom Floor (In Front of Door to Office)	White/Black Underlayment	N/A	Good	N/A	ND
MAT-825-D7-28-Adhesive	SR Second Mate – Floor (Near Door to Hallway)	Yellow Adhesive	N/A	Good	N/A	ND
MAT-825-D7-28-Underlayment	SR Second Mate – Floor (Near Door to Hallway)	Gray Underlayment	N	Good	N/A	<1% Chrysotile
MAT-825-D7-29	Recliner Lounge – Ceiling (Fwd/Port, Near Exit to Foyer)	Beige L-Channel Mastic	N/A	Good	N/A	ND
MAT-825-D7-30	Solarium – Women’s Restroom Floor (Corner of Exit Doorway)	Green Flooring	N/A	Good	N/A	ND
MAT-825-D7-31	Solarium – Men’s Restroom Floor (Fwd Wall, Near Plumbing)	Green Flooring	N/A	Good	N/A	ND
MAT-825-D7-32	Solarium – Floor (Outside of Men’s Restroom)	Gray Flooring	N/A	Good	N/A	ND
MAT-825-D7-33-Flooring	SR Third Mate – Restroom Floor (Near Shower Drain)	White/Blue Flooring	N/A	Good	N/A	ND
MAT-825-D7-33-Leveler	SR Third Mate – Shower Floor	Gray Leveler	N/A	Good	N/A	ND
MAT-825-D7-34	SR Second Mate – Shower Floor/Wall	Brown/White Caulking	N/A	Good	N/A	ND
MAT-825-D7-35	SR Second Mate – Restroom Floor	White/Beige Flooring	N/A	Good	N/A	ND
MAT-825-D7-36-Mastic 1	SR First Engineer – Floor (Port, Beneath Desk)	Yellow Mastic	N/A	Good	N/A	ND

Bulk Sample#	Sample Location	Material Description	Friable (Y/ N)	Material Condition	Appx. Quantity	Asbestos Content
MAT-825-D7-36-Carpet	SR First Engineer – Floor (Port, Beneath Desk)	Red/Blue Carpet	N/A	Good	N/A	ND
MAT-825-D7-36-Mastic 2	SR First Engineer – Floor (Port, Beneath Desk)	Yellow Mastic	N/A	Good	N/A	ND
MAT-825-D7-36-Pad	SR First Engineer – Floor (Port, Beneath Desk)	Black Pad	N/A	Good	N/A	ND
MAT-825-D7-36-Mastic 3	SR First Engineer – Floor (Port, Beneath Desk)	Yellow Mastic	N/A	Good	N/A	ND
MAT-825-D7-36-Floor Tile	SR First Engineer – Floor (Port, Beneath Desk)	Pink Floor Tile	N	Good	N/A	2% Chrysotile
MAT-825-D7-36-Mastic 4	SR First Engineer – Floor (Port, Beneath Desk)	Black Mastic	N	Good	N/A	4% Chrysotile
MAT-825-D7-37-Adhesive	Wheelhouse – Wall (Port, Right of Counter)	Beige Adhesive	N/A	Good	N/A	ND
MAT-825-D7-37-Wallboard	Wheelhouse – Wall (Port, Right of Counter)	Tan/White Wallboard	N/A	Good	N/A	ND
MAT-825-EXT-01	Solarium – Exterior Window (Port)	Gray/Black Caulking	N/A	Good	N/A	ND

KEY: Fwd = forward; Stbd = starboard; HVAC = heating, ventilation, & air conditioning; Int = interior; SR = stateroom; FSD = fire screen door; ND = non-detect; N/A = not applicable

4.9 Asbestos Findings: House Top Deck 8

Bulk Sample#	Sample Location	Material Description	Friable (Y/ N)	Material Condition	Appx. Quantity	Asbestos Content
MAT-824-D8-01	Fan Room – HVAC Ducting	Gray Caulking	N/A	Good	N/A	ND

KEY: HVAC = heating, ventilation, & air conditioning; ND = non-detect; N/A = not applicable

5.0 Conclusions

Review of the laboratory results from materials collected from each deck of the MV Matanuska reveals that asbestos was found in the following building materials:

Hold Deck 1:

- Brown Packing Material – MSD Room
- Gray Thermal System Insulation (TSI) (Linear) – Shaft Alley

Second Deck 2:

- Gray Sink Insulation – Engineer Stores
- Brown Packing Material – Elevator Machine Room
- Brown Baseboard Adhesive – Crew Quarters near Stateroom 7
- Brown Baseboard Adhesive – Crew Quarters near Fan Room No. 3

Gallery Deck 4:

- Black Packing Material – Bosun Stores
- Gray Floor Tile & Black Mastic – Crew Stateroom BO 8
- Gray Wallboard – Crew Stateroom BO 8 (Port)
- Gray Wallboard – Crew Stateroom BO 8 (Forward)
- Gray Floor Tile & Black Mastic – Crew Stateroom 1
- Gray/Beige Wallboard – Crew Stateroom 1
- Gray TSI (Elbow) – Cleaning Gear Locker
- Gray/White/Green Floor Tile & Black Mastic – Junior Engineer Stateroom

Cabin Deck 5:

- Gray/White Flooring – First Aid Room

Bridge Deck 7:

- Brown Baseboard Mastic – Third Mate Stateroom Closet
- Brown Baseboard Mastic – Third Mate Stateroom
- Tan Floor Tile & Black Mastic – Third Mate Stateroom
- Pink Floor Tile & Black Mastic – Officer Quarters Hallway
- Pink Floor Tile & Black Mastic – First Engineer Stateroom

Satori recommends that the removal and disposal of all ACM be completed by an accredited abatement contractor, and in accordance with all applicable local, state, and federal regulations pertaining to the removal of asbestos. Additionally, the following materials were determined to contain asbestos at concentrations below 1%:

Cabin Deck 5:

- Brown Baseboard Adhesive – Port Hallway
- Brown Baseboard Adhesive – Starboard Hallway

- White Leveler-Like Material (Sub-flooring) – Starboard Hallway

Boat Deck 6:

- Red Leveler (Sub-flooring) – Cafeteria
- Red Leveler (Sub-flooring) – Unisex Restroom

Bridge Deck 7:

- Brown/White Baseboard Mastic – Aft/Port Exit to Outer Deck
- Gray Underlayment – Second Mate Stateroom

While this is not above the regulatory limit, the presence of asbestos was detected. Satori recommends that the removal and disposal of all ACM be completed by an accredited abatement contractor, and in accordance with all applicable local, state, and federal regulations pertaining to the removal of asbestos.

Lastly, review of laboratory results from materials sampled on the Innerbottom, Main Deck 3, and House Top Deck 8 revealed no asbestos was detected. If, during work activities, additional suspect ACM material is discovered that has not been tested, it should be evaluated by qualified personnel prior to disturbance.

6.0 Limitations

This inspection report has been prepared for the exclusive use of the State of Alaska Department of Transportation & Public Facilities. Any use which a third-party makes of this report, or any reliance on or decisions to be made based on it, are the responsibility of such third-parties. Satori Group, Inc. accepts no responsibility for damages, if any, suffered by any third-party as a result of decisions made, or actions based on this report. This report is based upon and conducted in accordance with HUD Guidelines and EPA rules in effect at the time of this inspection. Satori has no duty to update this report based on subsequent regulatory changes.

7.0 Signatory

This report presents the ACM inspection completed by Satori Group, Inc. The survey contains contract and introductory information, regulatory inspection framework, sampling methods, results, and recommendations. Please feel free to contact our office at 907-332-0456 if there are any questions pertaining to the information contained in this report. Thank you for choosing Satori.

Satori Group, Inc.



Anna Scheiner
Environmental Technician
AHERA Building Inspector Certification # HIASB-5286



Reviewed by Alan Caldwell
Operations Manager
AHERA Building Inspector Certification # TBI4-1122-17334

APPENDIX A

Laboratory Results & Chain of Custody Records



LA Testing

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Tel/Fax: (714) 828-4999 / (714) 828-4944

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LA Testing Order: 332315234

Customer ID: 32EHS30

Customer PO:

Project ID:

Attention: Alan Caldwell
Satori Group, Inc
1310 East 66th Avenue
Suite 2
Anchorage, AK 99518

Phone: (907) 350-9919

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Received Date: 08/31/2023 11:00 AM

Analysis Date: 09/07/2023 - 09/08/2023

Collected Date:

Project: DOT Ferry HBMS and Management Plan - Satori Pro. No: 31225

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
MAT-825-IB-01-Insulation <small>332315234-0001</small>	INNERBOTTOM - BLOWN-ON INSULATION	Brown/Tan Fibrous Homogeneous	55% Min. Wool	45% Non-fibrous (Other)	None Detected
MAT-825-IB-01-Mastic-Like Material <small>332315234-0001A</small>	INNERBOTTOM - BLOWN-ON INSULATION	Brown/Black Fibrous Heterogeneous	20% Min. Wool	80% Non-fibrous (Other)	None Detected
<i>Result includes attached inseparable insulation.</i>					
MAT-822-D1-01-Coating <small>332315234-0002</small>	MSD ROOM - PIPE INSULATION , BLACK FOAM	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-822-D1-01-Foam <small>332315234-0002A</small>	MSD ROOM - PIPE INSULATION , BLACK FOAM	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-822-D1-02-Coating <small>332315234-0003</small>	MSD ROOM - TSI ELBOW	White Fibrous Homogeneous	15% Cellulose 10% Glass	75% Non-fibrous (Other)	None Detected
MAT-822-D1-02-TSI 1 <small>332315234-0003A</small>	MSD ROOM - TSI ELBOW	Beige Fibrous Homogeneous	98% Glass	2% Non-fibrous (Other)	None Detected
MAT-822-D1-02-Wrap <small>332315234-0003B</small>	MSD ROOM - TSI ELBOW	White Fibrous Homogeneous	75% Cellulose 10% Glass	15% Non-fibrous (Other)	None Detected
MAT-822-D1-02-TSI 2 <small>332315234-0003C</small>	MSD ROOM - TSI ELBOW	Yellow Fibrous Homogeneous	95% Glass	5% Non-fibrous (Other)	None Detected
MAT-822-D1-03-Coating <small>332315234-0004</small>	MSD ROOM - TSI LINEAR	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-822-D1-03-Wrap 1 <small>332315234-0004A</small>	MSD ROOM - TSI LINEAR	White Fibrous Homogeneous	95% Glass	5% Non-fibrous (Other)	None Detected
MAT-822-D1-03-Wrap 2 <small>332315234-0004B</small>	MSD ROOM - TSI LINEAR	White/Yellow Fibrous Heterogeneous	20% Cellulose 7% Glass	73% Non-fibrous (Other)	None Detected
MAT-822-D1-03-TSI <small>332315234-0004C</small>	MSD ROOM - TSI LINEAR	Yellow Fibrous Homogeneous	95% Glass	5% Non-fibrous (Other)	None Detected
MAT-822-D1-04 <small>332315234-0005</small>	MSD ROOM - CEILING INSULATION	White/Yellow Fibrous Heterogeneous	80% Glass	20% Non-fibrous (Other)	None Detected
MAT-822-D1-05 <small>332315234-0006</small>	MSD ROOM - GASKET	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

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LA Testing Order: 332315234

Customer ID: 32EHS30

Customer PO:

Project ID:

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
MAT-822-D1-06 332315234-0007	MSD ROOM - PACKING	Brown Fibrous Homogeneous		50% Non-fibrous (Other)	50% Chrysotile
MAT-822-D1-07 332315234-0008	AUX MACHINERY ROOM - FOAM INSULATION	White/Black Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	None Detected
MAT-822-D1-08-Coatin g 1 332315234-0009	ENGINE ROOM - TSI ELBOW	Beige Fibrous Homogeneous	60% Glass	40% Non-fibrous (Other)	None Detected
MAT-822-D1-08-Coatin g 2 332315234-0009A	ENGINE ROOM - TSI ELBOW	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-822-D1-08-TSI 332315234-0009B	ENGINE ROOM - TSI ELBOW	White Fibrous Homogeneous	95% Glass	5% Non-fibrous (Other)	None Detected
MAT-822-D1-09-Insulati on Tape 1 332315234-0010	ENGINE ROOM - INSULATION TAPE	Gray/White Fibrous Heterogeneous	20% Synthetic	80% Non-fibrous (Other)	None Detected
MAT-822-D1-09-Insulati on Tape 2 332315234-0010A	ENGINE ROOM - INSULATION TAPE	Tan/White Fibrous Heterogeneous	70% Glass	30% Non-fibrous (Other)	None Detected
MAT-822-D1-10 332315234-0011	SHAFTY ALLEY - GASKET	Gray/Tan/Black Fibrous Heterogeneous	35% Cellulose	65% Non-fibrous (Other)	None Detected
MAT-822-D1-11-Coatin g 1 332315234-0012	SHAFTY ALLEY - TSI ELBOW	Beige Fibrous Homogeneous	60% Glass	40% Non-fibrous (Other)	None Detected
MAT-822-D1-11-Coatin g 2 332315234-0012A	SHAFTY ALLEY - TSI ELBOW	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-822-D1-11-TSI 332315234-0012B	SHAFTY ALLEY - TSI ELBOW	White Fibrous Homogeneous	95% Glass	5% Non-fibrous (Other)	None Detected
MAT-822-D1-12-Wrap 332315234-0013 <i>Result includes a small amount of inseparable attached adhesive material</i>	SHAFTY ALLEY - TSI LINEAR	White/Green Fibrous Heterogeneous	60% Synthetic	40% Non-fibrous (Other)	None Detected
MAT-822-D1-12-TSI 332315234-0013A	SHAFTY ALLEY - TSI LINEAR	Gray Fibrous Homogeneous		85% Non-fibrous (Other)	10% Amosite 5% Chrysotile
MAT-822-D2-01-Wrap 332315234-0014	AUX MACHINERY ROOM - TSI ELBOW	White/Yellow Fibrous Heterogeneous	10% Cellulose 80% Glass	10% Non-fibrous (Other)	None Detected
MAT-822-D2-01-TSI 332315234-0014A	AUX MACHINERY ROOM - TSI ELBOW	Beige Fibrous Homogeneous	15% Min. Wool	85% Non-fibrous (Other)	None Detected
MAT-822-D2-02-Wrap 1 332315234-0015	AUX MACHINERY ROOM - TSI LINEAR	Tan/White Fibrous Homogeneous	95% Glass	5% Non-fibrous (Other)	None Detected
MAT-822-D2-02-Wrap 2 332315234-0015A	AUX MACHINERY ROOM - TSI LINEAR	White/Yellow Fibrous Heterogeneous	20% Cellulose 7% Glass	73% Non-fibrous (Other)	None Detected

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Customer ID: 32EHS30

Customer PO:

Project ID:

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
MAT-822-D2-02-TSI 332315234-0015B	AUX MACHINERY ROOM - TSI LINEAR	Yellow Fibrous Homogeneous	95% Glass	5% Non-fibrous (Other)	None Detected
MAT-822-D2-03 332315234-0016	AUX MACHINERY ROOM - SILVER PAINT	Silver/Yellow Non-Fibrous Heterogeneous	3% Fibrous (Other)	97% Non-fibrous (Other)	None Detected
<i>Fibers were found with refractive indices outside of the acceptable range for regulated asbestos. These fibers are possibly altered asbestos fibers and were not included in the final asbestos concentration</i>					
MAT-822-D2-04-Vinyl 332315234-0017	ENGINEERS' STORES - TSI ELBOW	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-822-D2-04-Wrap 332315234-0017A	ENGINEERS' STORES - TSI ELBOW	White Fibrous Homogeneous	40% Glass	60% Non-fibrous (Other)	None Detected
MAT-822-D2-04-TSI 332315234-0017B	ENGINEERS' STORES - TSI ELBOW	White Fibrous Homogeneous	95% Min. Wool	5% Non-fibrous (Other)	None Detected
MAT-822-D2-05-Vinyl 332315234-0018	ENGINEERS' STORES - TSI ELBOW	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-822-D2-05-Wrap 332315234-0018A	ENGINEERS' STORES - TSI ELBOW	White/Beige Fibrous Homogeneous	40% Glass	60% Non-fibrous (Other)	None Detected
MAT-822-D2-05-TSI 332315234-0018B	ENGINEERS' STORES - TSI ELBOW	White Fibrous Homogeneous	98% Min. Wool	2% Non-fibrous (Other)	None Detected
MAT-822-D2-06-Paint / Coating 332315234-0019	ENGINEERS' STORES - TSI LINEAR	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-822-D2-06-TSI 332315234-0019A	ENGINEERS' STORES - TSI LINEAR	Yellow Fibrous Homogeneous	98% Glass	2% Non-fibrous (Other)	None Detected
MAT-822-D2-07 332315234-0020	ENGINEERS' STORES - SINK INSULATION	Gray Fibrous Heterogeneous		93% Non-fibrous (Other)	7% Chrysotile
MAT-822-D2-08 332315234-0021	ENGINEERS' STORES - SINK CAULKING	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-822-D2-09-Vinyl 332315234-0022	ENGINE ROOM - TSI ELBOW	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-822-D2-09-Wrap 332315234-0022A	ENGINE ROOM - TSI ELBOW	White/Beige Fibrous Homogeneous	40% Glass	60% Non-fibrous (Other)	None Detected
MAT-822-D2-09-TSI 332315234-0022B	ENGINE ROOM - TSI ELBOW	White Fibrous Homogeneous	98% Min. Wool	2% Non-fibrous (Other)	None Detected
MAT-822-D2-10 332315234-0023	ENGINE ROOM - CEILING & WALL INSULATION	White/Yellow Fibrous Heterogeneous	90% Min. Wool	10% Non-fibrous (Other)	None Detected
MAT-822-D2-11-Pegboard 332315234-0024	ENGINE ROOM - WALL PEGBOARD & INSULATION	Beige Fibrous Homogeneous	90% Glass	10% Non-fibrous (Other)	None Detected
MAT-822-D2-11-Insulation 332315234-0024A	ENGINE ROOM - WALL PEGBOARD & INSULATION	Black/Yellow Fibrous Heterogeneous	95% Min. Wool	5% Non-fibrous (Other)	None Detected

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LA Testing Order: 332315234

Customer ID: 32EHS30

Customer PO:

Project ID:

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
MAT-822-D2-13 332315234-0025	THAW ROOM EXT WALL - BLACK TAR	Black Non-Fibrous Homogeneous	8% Cellulose	92% Non-fibrous (Other)	None Detected
MAT-822-D2-14 332315234-0026	THAW ROOM EXT WALL - PIPING INSULATION	White/Black Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	None Detected
MAT-823-D2-15 332315234-0027	STEWARD SR - WALLBOARD	White/Beige Fibrous Heterogeneous	10% Cellulose 7% Glass	83% Non-fibrous (Other)	None Detected
MAT-823-D2-16 332315234-0028	ELEVATOR MACHINE ROOM - PACKING	Brown Fibrous Homogeneous		50% Non-fibrous (Other)	50% Chrysotile
MAT-823-D2-17 332315234-0029	STEWARD SR - BASEBOARD ADHESIVE	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-823-D2-18-Foam 332315234-0030	STEWARD SR - FLOORING ADHESIVE	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-823-D2-18-Adhesive 332315234-0030A	STEWARD SR - FLOORING ADHESIVE	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-823-D2-18-Flooring 332315234-0030B	STEWARD SR - FLOORING ADHESIVE	Various/Black/Green Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-823-D2-19-Flooring 332315234-0031	STEWARD SR - FLOORING ADHESIVE	Brown/Gray/Red Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	None Detected
MAT-823-D2-19-Adhesive 332315234-0031A	STEWARD SR - FLOORING ADHESIVE	Black/Yellow Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	None Detected
MAT-823-D2-20-Adhesive 1 332315234-0032	STEWARD SR - BASEBOARD ADHESIVE	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-823-D2-20-Adhesive 2 332315234-0032A	STEWARD SR - BASEBOARD ADHESIVE	Brown Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
MAT-823-D2-21-Adhesive 1 332315234-0033	STEWARD SR - BASEBOARD ADHESIVE	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-823-D2-21-Adhesive 2 332315234-0033A	STEWARD SR - BASEBOARD ADHESIVE	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-823-D2-21-Adhesive 3 332315234-0033B	STEWARD SR - BASEBOARD ADHESIVE	Brown Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
MAT-823-D2-22-Wall Pegboard 332315234-0034	FAN ROOM NO. 3 - WALL PEGBOARD & INSULATION	White Fibrous Homogeneous	80% Glass	20% Non-fibrous (Other)	None Detected

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Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
MAT-823-D2-22-Insulation <small>332315234-0034A</small>	FAN ROOM NO. 3 - WALL PEGBOARD & INSULATION	Yellow Fibrous Homogeneous	97% Glass	3% Non-fibrous (Other)	None Detected
MAT-823-D2-23-Wrap <small>332315234-0035</small>	FAN ROOM NO. 3 - TSI ELBOW	Tan/White Fibrous Homogeneous	80% Glass	20% Non-fibrous (Other)	None Detected
MAT-823-D2-23-TSI <small>332315234-0035A</small>	FAN ROOM NO. 3 - TSI ELBOW	Beige Fibrous Homogeneous	10% Cellulose 15% Min. Wool	75% Non-fibrous (Other)	None Detected
MAT-823-D2-24 <small>332315234-0036</small>	STEWARDS LAUNDRY ROOM - FLOORING	Brown/Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-823-D2-25 <small>332315234-0037</small>	LAUNDRY ROOM - GREEN CAULKING	Green Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-823-D2-26-Flooring <small>332315234-0038</small>	STEWARDS SR - FLOORING ADHESIVE	Gray/Red/Black Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	None Detected
MAT-823-D2-26-Adhesive <small>332315234-0038A</small>	STEWARDS SR - FLOORING ADHESIVE	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-823-D2-27 <small>332315234-0039</small>	STEWARDS SR BATHROOM - FLOORING	Brown/White/Blue Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-823-D2-28 <small>332315234-0040</small>	STEWARDS SR BATHROOM - FLOORING	Brown/Tan/Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-823-D2-29-Flooring <small>332315234-0041</small>	STEWARDS SR - FLOORING ADHESIVE	Gray/Red Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	None Detected
MAT-823-D2-29-Adhesive <small>332315234-0041A</small>	STEWARDS SR - FLOORING ADHESIVE	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-823-D2-30 <small>332315234-0042</small>	STEWARDS RECREATION ROOM - WALLBOARD	Tan Fibrous Homogeneous	15% Cellulose	85% Non-fibrous (Other)	None Detected
MAT-822-D3-01-Wrap <small>332315234-0043</small>	CAR DECK - WALL INSULATION	White Fibrous Homogeneous	80% Glass	20% Non-fibrous (Other)	None Detected
MAT-822-D3-01-Insulation <small>332315234-0043A</small>	CAR DECK - WALL INSULATION	Yellow Fibrous Homogeneous	97% Glass	3% Non-fibrous (Other)	None Detected
MAT-822-D3-02-Wrap 1 <small>332315234-0044</small>	CAR DECK - WALL INSULATION	White Fibrous Homogeneous	50% Glass	50% Non-fibrous (Other)	None Detected
MAT-822-D3-02-Adhesive <small>332315234-0044A</small>	CAR DECK - WALL INSULATION	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

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Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
MAT-822-D3-02-Wrap 2 332315234-0044B	CAR DECK - WALL INSULATION	White Fibrous Homogeneous	20% Glass	80% Non-fibrous (Other)	None Detected
MAT-822-D3-02-Insulation 332315234-0044C	CAR DECK - WALL INSULATION	Yellow Fibrous Homogeneous	97% Glass	3% Non-fibrous (Other)	None Detected
MAT-822-D3-03-Wrap 332315234-0045	CAR DECK - WALL INSULATION	White Fibrous Homogeneous	35% Glass	65% Non-fibrous (Other)	None Detected
MAT-822-D3-03-Insulation 332315234-0045A	CAR DECK - WALL INSULATION	Yellow Fibrous Homogeneous	97% Glass	3% Non-fibrous (Other)	None Detected
MAT-822-D3-04-Wrap 332315234-0046	CAR DECK - WALL INSULATION	White/Beige Fibrous Heterogeneous	35% Glass	65% Non-fibrous (Other)	None Detected
MAT-822-D3-04-Insulation 332315234-0046A	CAR DECK - WALL INSULATION	Tan Fibrous Homogeneous	98% Min. Wool	2% Non-fibrous (Other)	None Detected
MAT-822-D3-05-Wrap 332315234-0047	CAR DECK - TSI ELBOW	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-822-D3-05-Fibrous Material 332315234-0047A	CAR DECK - TSI ELBOW	White Fibrous Homogeneous	85% Glass	15% Non-fibrous (Other)	None Detected
MAT-822-D3-05-TSI 332315234-0047B	CAR DECK - TSI ELBOW	Beige Fibrous Homogeneous	10% Cellulose 15% Min. Wool	75% Non-fibrous (Other)	None Detected
MAT-822-D3-06-Wrap 332315234-0048	CAR DECK - TSI ELBOW	White/Black Fibrous Heterogeneous	4% Fibrous (Other)	96% Non-fibrous (Other)	None Detected
MAT-822-D3-06-Fibrous Material 332315234-0048A	CAR DECK - TSI ELBOW	Tan Fibrous Homogeneous	85% Cellulose	15% Non-fibrous (Other)	None Detected
MAT-822-D3-06-TSI 332315234-0048B	CAR DECK - TSI ELBOW	Gray Fibrous Homogeneous	4% Cellulose 10% Min. Wool	86% Non-fibrous (Other)	None Detected
MAT-822-D3-07 332315234-0049	CAR DECK - SPRAY-ON TEXTURE	White Non-Fibrous Homogeneous	3% Fibrous (Other)	97% Non-fibrous (Other)	None Detected
MAT-822-D3-08-Wrap 332315234-0050	CAR DECK - TSI ELBOW / SPRAY-ON TEXTURE	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-822-D3-08-Fibrous Material 332315234-0050A	CAR DECK - TSI ELBOW / SPRAY-ON TEXTURE	White Fibrous Homogeneous	85% Glass	15% Non-fibrous (Other)	None Detected
MAT-822-D3-08-TSI 332315234-0050B	CAR DECK - TSI ELBOW / SPRAY-ON TEXTURE	Beige Fibrous Homogeneous	5% Cellulose 20% Min. Wool	75% Non-fibrous (Other)	None Detected
MAT-822-D3-08-Texture 332315234-0050C	CAR DECK - TSI ELBOW / SPRAY-ON TEXTURE				Layer Not Present

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Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
MAT-822-D3-09 332315234-0051	CAR DECK - SPRAY-ON TEXTURE	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-822-D3-10-Wrap 1 332315234-0052	CAR DECK - TSI ELBOW / SPRAY-ON TEXTURE	White Non-Fibrous Homogeneous	7% Fibrous (Other)	93% Non-fibrous (Other)	None Detected
MAT-822-D3-10-Wrap 2 332315234-0052A	CAR DECK - TSI ELBOW / SPRAY-ON TEXTURE	White/Beige Fibrous Homogeneous	70% Glass	30% Non-fibrous (Other)	None Detected
MAT-822-D3-10-TSI 332315234-0052B	CAR DECK - TSI ELBOW / SPRAY-ON TEXTURE	Tan Fibrous Homogeneous	10% Cellulose 15% Min. Wool	75% Non-fibrous (Other)	None Detected
MAT-822-D3-10-Texture 332315234-0052C	CAR DECK - TSI ELBOW / SPRAY-ON TEXTURE				Layer Not Present
MAT-823-D4-01 332315234-0053	BOSUN STORES - SPRAY-ON TEXTURE	Tan/White Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	None Detected
MAT-823-D4-02 332315234-0054	BOSUN STORES - SPRAY-ON TEXTURE	Tan/White Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	None Detected
MAT-823-D4-03 332315234-0055	BOSUN STORES - SPRAY-ON TEXTURE	White/Beige Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	None Detected
MAT-823-D4-04-Floor Tile 332315234-0056	BOSUN STORES - BLUE FLOORING / BLACK TAR-LIKE MATERIAL	Gray/Blue Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-823-D4-04-Tar-Like Material 332315234-0056A	BOSUN STORES - BLUE FLOORING / BLACK TAR-LIKE MATERIAL	Black/Rust Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	None Detected
MAT-823-D4-05-Paint 332315234-0057	BOSUN STORES - BLACK ADHESIVE / BLUE PAINT	Gray/Blue Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-823-D4-05-Adhesive 332315234-0057A	BOSUN STORES - BLACK ADHESIVE / BLUE PAINT	Black Fibrous Heterogeneous	2% Cellulose 2% Synthetic	96% Non-fibrous (Other)	None Detected
MAT-823-D4-06 332315234-0058	BOSUN STORES - BLACK PACKING	Black Fibrous Homogeneous		75% Non-fibrous (Other)	25% Chrysotile
MAT-823-D4-07-Wrap 332315234-0059	BOSUN STORES - CEILING INSULATION	White Fibrous Homogeneous	40% Glass	60% Non-fibrous (Other)	None Detected
MAT-823-D4-07-Insulation 332315234-0059A	BOSUN STORES - CEILING INSULATION	Yellow/Beige Fibrous Homogeneous	98% Min. Wool	2% Non-fibrous (Other)	None Detected
MAT-823-D4-08-Wrap 332315234-0060	BOSUN STORES - WALL INSULATION	White Fibrous Homogeneous	40% Glass	60% Non-fibrous (Other)	None Detected
MAT-823-D4-08-Insulation 332315234-0060A	BOSUN STORES - WALL INSULATION	Gray/Beige Fibrous Homogeneous	98% Min. Wool	2% Non-fibrous (Other)	None Detected

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
MAT-823-D4-09-Mastic 1 332315234-0061	BO 8-9" FLOOR TILE / MASTIC	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-823-D4-09-Floor Tile 332315234-0061A	BO 8-9" FLOOR TILE / MASTIC	Gray Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
MAT-823-D4-09-Mastic 2 332315234-0061B	BO 8-9" FLOOR TILE / MASTIC	Black Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
MAT-823-D4-09-Floorin g 332315234-0061C	BO 8-9" FLOOR TILE / MASTIC	Gray/Black Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	None Detected
MAT-823-D4-10 332315234-0062	BO 8 - WALLBOARD	Gray Fibrous Homogeneous		80% Non-fibrous (Other)	20% Chrysotile
MAT-823-D4-11-Wallbo ard 332315234-0063	BO 8 - WALLBOARD / BASEBOARD ADHESIVE	Gray Fibrous Homogeneous		83% Non-fibrous (Other)	15% Amosite 2% Chrysotile
MAT-823-D4-11-Adhesi ve 1 332315234-0063A	BO 8 - WALLBOARD / BASEBOARD ADHESIVE	Brown Non-Fibrous Homogeneous	2% Fibrous (Other)	98% Non-fibrous (Other)	None Detected
MAT-823-D4-11-Adhesi ve 2 332315234-0063B	BO 8 - WALLBOARD / BASEBOARD ADHESIVE	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-823-D4-12 332315234-0064	BO 8 - HVAC CAULKING	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-823-D4-13-Mastic 1 332315234-0065	ROOM 1 - FLOORING / MASTIC	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-823-D4-13-Mastic 2 332315234-0065A	ROOM 1 - FLOORING / MASTIC	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-823-D4-13-Floor Tile 332315234-0065B	ROOM 1 - FLOORING / MASTIC	Gray Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
MAT-823-D4-13-Mastic 3 332315234-0065C	ROOM 1 - FLOORING / MASTIC	Black Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
MAT-823-D4-13-Floorin g 332315234-0065D	ROOM 1 - FLOORING / MASTIC	Gray/Black Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	None Detected
MAT-823-D4-14-Floor Tile 332315234-0066	CREW QUARTERS HALLWAY - 12" FLOOR TILE / MASTIC	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
MAT-823-D4-14-Mastic 332315234-0066A	CREW QUARTERS HALLWAY - 12" FLOOR TILE / MASTIC	Brown/Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-823-D4-15-Baseboard 332315234-0067	CREW QUARTERS HALLWAY - BASEBOARD MASTIC	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-823-D4-15-Mastic 332315234-0067A	CREW QUARTERS HALLWAY - BASEBOARD MASTIC	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-823-D4-16-Baseboard 332315234-0068	OILER ROOM - BASEBOARD MASTIC	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-823-D4-16-Mastic 1 332315234-0068A	OILER ROOM - BASEBOARD MASTIC	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-823-D4-16-Mastic 2 332315234-0068B	OILER ROOM - BASEBOARD MASTIC	Brown Non-Fibrous Homogeneous	3% Fibrous (Other)	97% Non-fibrous (Other)	None Detected
MAT-823-D4-17-Carpet 332315234-0069	OILER ROOM - CARPET MASTIC	Various/Black/Blue Fibrous Heterogeneous	60% Synthetic	40% Non-fibrous (Other)	None Detected
MAT-823-D4-17-Mastic 332315234-0069A	OILER ROOM - CARPET MASTIC	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-823-D4-17-Leveler 332315234-0069B	OILER ROOM - CARPET MASTIC	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-823-D4-18-Wallboard 332315234-0070 <i>Results include attached inseparable mastic material.</i>	ROOM 1 - WALLBOARD	Gray/Beige Fibrous Heterogeneous		85% Non-fibrous (Other)	10% Amosite 5% Chrysotile
MAT-823-D4-19-Tile 332315234-0071	LAUNDRY / SINK ROOM - TAN TILE FLOORING	Tan/Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-823-D4-19-Grout 332315234-0071A	LAUNDRY / SINK ROOM - TAN TILE FLOORING	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-823-D4-19-Leveler 332315234-0071B	LAUNDRY / SINK ROOM - TAN TILE FLOORING	Brown/Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-823-D4-20-Tile 332315234-0072	LAUNDRY / SINK ROOM - GRAY TILE FLOORING	Gray/Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-823-D4-20-Grout 332315234-0072A <i>Result includes attached inseparable fibrous material.</i>	LAUNDRY / SINK ROOM - GRAY TILE FLOORING	Gray Fibrous Heterogeneous	3% Cellulose 8% Synthetic	89% Non-fibrous (Other)	None Detected
MAT-823-D4-21-Coating / Mastic 332315234-0073 <i>Unable to separate coating and mastic.</i>	LAUNDRY / SINK ROOM - TSI ELBOW	Yellow/Beige Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	None Detected

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
MAT-823-D4-21-Mesh 332315234-0073A	LAUNDRY / SINK ROOM - TSI ELBOW	Beige Fibrous Homogeneous	90% Cellulose	10% Non-fibrous (Other)	None Detected
MAT-823-D4-21-TSI 332315234-0073B	LAUNDRY / SINK ROOM - TSI ELBOW	Gray Fibrous Homogeneous	20% Min. Wool	55% Non-fibrous (Other)	10% Amosite 15% Chrysotile
MAT-823-D4-22-Coating 332315234-0074	CREW QUARTERS HALLWAY - TAN / BLUE CONCRETE FLOORING	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-823-D4-22-Concrete 332315234-0074A	CREW QUARTERS HALLWAY - TAN / BLUE CONCRETE FLOORING	Brown/Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-823-D4-22-Mastic-Like Material 332315234-0074B	CREW QUARTERS HALLWAY - TAN / BLUE CONCRETE FLOORING	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-823-D4-23 332315234-0075	OILER ROOM - HVAC CAULKING	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-823-D4-24 332315234-0076	CREW QUARTERS HALLWAY - FLOORING BENEATH 12" TILE	Brown/White/Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-823-D4-25-Caulk 332315234-0077	CREW QUARTERS STAIRWELL - FLOOR CAULKING	Gray/Rust Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-823-D4-25-Mastic-Like Material 332315234-0077A	CREW QUARTERS STAIRWELL - FLOOR CAULKING	Black/Rust Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-823-D4-26-Carpet 332315234-0078	JR. ENGINEER ROOM - CARPET MASTIC	Brown/Various/Black Fibrous Heterogeneous	5% Cellulose 70% Synthetic	25% Non-fibrous (Other)	None Detected
MAT-823-D4-26-Mastic 332315234-0078A	JR. ENGINEER ROOM - CARPET MASTIC	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-823-D4-27-Mastic 1 332315234-0079	JR. ENGINEER ROOM - 9" FLOOR TILE / MASTIC	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-823-D4-27-Floor Tile 332315234-0079A	JR. ENGINEER ROOM - 9" FLOOR TILE / MASTIC	Gray/White/Green Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
MAT-823-D4-27-Mastic 2 332315234-0079B	JR. ENGINEER ROOM - 9" FLOOR TILE / MASTIC	Black Non-Fibrous Homogeneous		92% Non-fibrous (Other)	8% Chrysotile
MAT-823-D4-32 332315234-0080	CREW QUARTERS RESTROOM - BLUE FLOORING	Tan/Blue Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-823-D4-33 332315234-0081	CREW QUARTERS RESTROOM - BLACK THRESHOLD	Tan/Black Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	None Detected

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
MAT-823-D4-34 332315234-0082	CREW QUARTERS RESTROOM - TAN FLOORING	Gray/Tan/Peach Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-823-D4-35-Pegboard 332315234-0083	FAN ROOM NO. 1 - WALL PEGBOARD / INSULATION	White Fibrous Homogeneous	75% Glass	25% Non-fibrous (Other)	None Detected
MAT-823-D4-35-Insulation 332315234-0083A	FAN ROOM NO. 1 - WALL PEGBOARD / INSULATION	Black/Yellow Fibrous Homogeneous	80% Glass	20% Non-fibrous (Other)	None Detected
MAT-823-D4-36 332315234-0084	ROOM 5 - SINK CAULKING	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-824-D5-01-Mastic 1 332315234-0085	CABIN DECK HALLWAY - CARPET MASTIC	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-824-D5-01-Leveler 332315234-0085A <i>Result includes attached inseparable yellow mastic.</i>	CABIN DECK HALLWAY - CARPET MASTIC	Yellow/Beige Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	None Detected
MAT-824-D5-01-Mastic 2 332315234-0085B	CABIN DECK HALLWAY - CARPET MASTIC	Green Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-824-D5-02-Mastic 1 332315234-0086 <i>Result includes attached inseparable leveler material.</i>	CABIN DECK HALLWAY - CARPET MASTIC	Yellow/Beige Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	None Detected
MAT-824-D5-02-Leveler 332315234-0086A	CABIN DECK HALLWAY - CARPET MASTIC	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-824-D5-02-Mastic 2 332315234-0086B	CABIN DECK HALLWAY - CARPET MASTIC	Green Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-824-D5-03-Mastic 1 332315234-0087	CABIN DECK HALLWAY - CARPET MASTIC	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-824-D5-03-Leveler 332315234-0087A	CABIN DECK HALLWAY - CARPET MASTIC	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-824-D5-03-Mastic 2 332315234-0087B	CABIN DECK HALLWAY - CARPET MASTIC	Green Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-824-D5-04-Flooring 1 332315234-0088	CABIN DECK STAIRWELL - BLUE FLOORING	Blue/Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-824-D5-04-Mastic 332315234-0088A	CABIN DECK STAIRWELL - BLUE FLOORING	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

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			% Fibrous	% Non-Fibrous	% Type
MAT-824-D5-04-Flooring 2 <small>332315234-0088B</small>	CABIN DECK STAIRWELL - BLUE FLOORING	White/Red/Black Fibrous Heterogeneous	2% Cellulose 2% Synthetic	96% Non-fibrous (Other)	None Detected
MAT-824-D5-05-Adhesive 1 <small>332315234-0089</small>	CABIN DECK - BASEBOARD ADHESIVE	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-824-D5-05-Adhesive 2 <small>332315234-0089A</small>	CABIN DECK - BASEBOARD ADHESIVE	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	<1% Chrysotile
MAT-824-D5-06-Adhesive 1 <small>332315234-0090</small>	CABIN DECK - BASEBOARD ADHESIVE	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-824-D5-06-Adhesive 2 <small>332315234-0090A</small>	CABIN DECK - BASEBOARD ADHESIVE	Tan/Rust Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-824-D5-06-Adhesive 3 <small>332315234-0090B</small>	CABIN DECK - BASEBOARD ADHESIVE	Brown Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	<1% Chrysotile
MAT-824-D5-07-Flooring <small>332315234-0091</small>	FIRST AID ROOM - TAN FLOORING	Gray/White Fibrous Heterogeneous	7% Cellulose	87% Non-fibrous (Other)	6% Chrysotile
MAT-824-D5-07-Adhesive <small>332315234-0091A</small>	FIRST AID ROOM - TAN FLOORING	Clear Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-824-D5-07-Leveler <small>332315234-0091B</small>	FIRST AID ROOM - TAN FLOORING	Gray/Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-824-D5-08-Pegboard <small>332315234-0092</small>	FAN ROOM NO. 5 - WALL PEGBOARD / INSULATION	Yellow Fibrous Homogeneous	91% Min. Wool	9% Non-fibrous (Other)	None Detected
MAT-824-D5-08-Insulation <small>332315234-0092A</small>	FAN ROOM NO. 5 - WALL PEGBOARD / INSULATION	White Fibrous Homogeneous	92% Synthetic	8% Non-fibrous (Other)	None Detected
MAT-824-D5-09-Carpet <small>332315234-0093</small>	CABIN 1B - CARPET MASTIC	Tan/Black Fibrous Homogeneous	34% Synthetic	66% Non-fibrous (Other)	None Detected
MAT-824-D5-09-Mastic <small>332315234-0093A</small>	CABIN 1B - CARPET MASTIC	Brown/Tan/Various Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-824-D5-10-Carpet <small>332315234-0094</small>	CABIN DECK HALLWAY - CARPET MASTIC	Various/Black Fibrous Heterogeneous	38% Synthetic	62% Non-fibrous (Other)	None Detected
MAT-824-D5-10-Mastic <small>332315234-0094A</small>	CABIN DECK HALLWAY - CARPET MASTIC	Yellow/Green Fibrous Heterogeneous	5% Synthetic	95% Non-fibrous (Other)	None Detected
MAT-824-D5-11-Carpet <small>332315234-0095</small>	CABIN DECK HALLWAY - CARPET MASTIC	Gray/Various/Black Fibrous Heterogeneous	40% Synthetic	60% Non-fibrous (Other)	None Detected

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			% Fibrous	% Non-Fibrous	% Type
MAT-824-D5-11-Mastic 332315234-0095A	CABIN DECK HALLWAY - CARPET MASTIC	Brown/Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-824-D5-11-Compo und Like Material 332315234-0095B	CABIN DECK HALLWAY - CARPET MASTIC	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-824-D5-12-Mastic 1 332315234-0096	CABIN DECK HALLWAY - CARPET MASTIC	Green Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-824-D5-12-Mastic 2 332315234-0096A	CABIN DECK HALLWAY - CARPET MASTIC	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-824-D5-12-Level -like material 332315234-0096B	CABIN DECK HALLWAY - CARPET MASTIC	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	<1% Chrysotile
MAT-824-D5-13 332315234-0097	CABIN DECK FORWARD ENTRYWAY - TAN FLOORING	Gray/Tan/Red Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	None Detected
MAT-824-D5-14 332315234-0098	CABIN DECK FORWARD ENTRYWAY - BROWN FLOORING	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-824-D5-15-Pegbo ard 332315234-0099	CABIN DECK FORWARD ENTRYWAY - WALL PEGBOARD / INSULATION	White Fibrous Heterogeneous	35% Synthetic	65% Non-fibrous (Other)	None Detected
MAT-824-D5-15-Insulati on 332315234-0099A	CABIN DECK FORWARD ENTRYWAY - WALL PEGBOARD / INSULATION	Yellow Fibrous Homogeneous	91% Min. Wool	9% Non-fibrous (Other)	None Detected
MAT-824-D5-16-Floor Tile 332315234-0100	CABIN DECK FORWARD ENTRYWAY - 12" TILE / MASTIC	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-824-D5-16-Mastic 332315234-0100A	CABIN DECK FORWARD ENTRYWAY - 12" TILE / MASTIC	Black/Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-824-D5-17 332315234-0101	CABIN DECK FORWARD ENTRYWAY - FLOORING BENEATH 12" TILE / MASTIC	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-824-D5-18-Caulk 1 332315234-0102	CABIN 1B - WINDOW CAULKING	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-824-D5-18-Caulk 2 332315234-0102A	CABIN 1B - WINDOW CAULKING	Clear Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
MAT-824-D5-19 332315234-0103	CABIN 1B - BATHROOM FLOORING	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-824-D5-20-Caulk 1 332315234-0104	CABIN 1B - SINK CAULKING	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-824-D5-20-Caulk 2 332315234-0104A	CABIN 1B - SINK CAULKING	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-824-D5-21 332315234-0105	CABIN 1B - SHOWER FLOORING	Tan Fibrous Heterogeneous	25% Glass	75% Non-fibrous (Other)	None Detected
MAT-824-D5-22-Caulk 332315234-0106	CABIN 3B - WINDOW CAULKING	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-824-D5-22-Adhesive 332315234-0106A	CABIN 3B - WINDOW CAULKING	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-824-D5-23 332315234-0107	CABIN 3B - WALLBOARD	White Fibrous Homogeneous	8% Cellulose	92% Non-fibrous (Other)	None Detected
MAT-824-D5-24 332315234-0108	F.S.D. 35 - DOOR FRAME INSULATION	White Fibrous Homogeneous	92% Fibrous (Other)	8% Non-fibrous (Other)	None Detected
MAT-824-D5-25 332315234-0109	SENIOR PURSER ROOM - SHOWER FLOORING	Gray/Tan/Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-824-D5-26-Carpet 332315234-0110	CABIN 3B - CARPET MASTIC	Gray/Blue Fibrous Homogeneous	98% Synthetic	2% Non-fibrous (Other)	None Detected
MAT-824-D5-26-Mastic 332315234-0110A	CABIN 3B - CARPET MASTIC	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-824-D5-26-Pad 332315234-0110B	CABIN 3B - CARPET MASTIC	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-824-D5-27 332315234-0111	CABIN 3B - SHOWER FLOORING	Brown/Beige Fibrous Heterogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
MAT-824-D5-28 332315234-0112	CABIN 3B - BATHROOM FLOORING	Tan Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	None Detected
MAT-824-D5-29 332315234-0113	SENIOR PURSER ROOM - GREEN FLOORING	Green/Clear Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-824-D5-30 332315234-0114	SENIOR PURSER ROOM - BASEBOARD ADHESIVE	Yellow/Green Fibrous Heterogeneous	3% Cellulose 3% Synthetic	94% Non-fibrous (Other)	None Detected
MAT-824-D5-31-Caulk 1 332315234-0115	CABIN 3B - SINK CAULKING	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-824-D5-31-Caulk 2 332315234-0115A	CABIN 3B - SINK CAULKING	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
MAT-824D5-32 332315234-0116	SENIOR PURSER ROOM - SINK CAULKING	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-824-D5-33 332315234-0117	SENIOR PURSER ROOM - BATHROOM FLOORING	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-824-D5-35 332315234-0118	CABIN 14B - CARPET MASTIC	Black/Yellow Fibrous Heterogeneous	3% Synthetic	97% Non-fibrous (Other)	None Detected
<i>Result includes a small amount of inseparable attached material</i>					
MAT-824-D5-36-Caulk 1 332315234-0119	CABIN 14B - SINK CAULKING	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-824-D5-36-Caulk 2 332315234-0119A	CABIN 14B - SINK CAULKING	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-824-D5-37-Mastic 1 332315234-0120	CABIN DECK LOBBY - WOOD PANEL FLOORING / MASTIC	Clear Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-824-D5-37-Wood Panel Flooring 332315234-0120A	CABIN DECK LOBBY - WOOD PANEL FLOORING / MASTIC	Brown/Gray/Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-824-D5-37-Mastic 2 332315234-0120B	CABIN DECK LOBBY - WOOD PANEL FLOORING / MASTIC	Gray/Yellow Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	None Detected
<i>Result includes a small amount of inseparable attached leveler.</i>					
MAT-824-D5-37-Leveler 1 332315234-0120C	CABIN DECK LOBBY - WOOD PANEL FLOORING / MASTIC	Gray Fibrous Homogeneous	2% Cellulose 7% Glass	91% Non-fibrous (Other)	None Detected
MAT-824-D5-37-Mastic 3 332315234-0120D	CABIN DECK LOBBY - WOOD PANEL FLOORING / MASTIC	Yellow/Green Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	None Detected
<i>Unable to separate green and yellow mastic.</i>					
MAT-824-D5-37-Leveler 2 332315234-0120E	CABIN DECK LOBBY - WOOD PANEL FLOORING / MASTIC	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-824-D5-38-Mastic 332315234-0121	CABIN 24C - CARPET MASTIC	Black/Yellow Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	None Detected
MAT-824-D5-38-Leveler 332315234-0121A	CABIN 24C - CARPET MASTIC	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-823-D6-01 332315234-0122	COCKTAIL LOUNGE - CARPET MASTIC	Gray/Beige Fibrous Heterogeneous	2% Synthetic	98% Non-fibrous (Other)	None Detected
<i>Result includes a small amount of inseparable attached material</i>					
MAT-823-D6-02-Carpet 332315234-0123	COCKTAIL LOUNGE - CARPET MASTIC	Gray/Blue/Purple Fibrous Heterogeneous	60% Synthetic	40% Non-fibrous (Other)	None Detected
MAT-823-D6-02-Mastic 1 332315234-0123A	COCKTAIL LOUNGE - CARPET MASTIC	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
MAT-823-D6-02-Flooring	COCKTAIL LOUNGE - CARPET MASTIC	White/Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
332315234-0123B					
MAT-823-D6-02-Mastic 2	COCKTAIL LOUNGE - CARPET MASTIC	Green Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
332315234-0123C					
MAT-823-D6-03-Mastic 1	OBSERVATION LOUNGE - CARPET MASTIC	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
332315234-0124					
MAT-823-D6-03-Mastic 2	OBSERVATION LOUNGE - CARPET MASTIC	Gray/Beige Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	None Detected
332315234-0124A Result includes inseparable attached leveler material					
MAT-823-D6-03-Leveler	OBSERVATION LOUNGE - CARPET MASTIC	Gray Non-Fibrous Homogeneous	5% Cellulose	95% Non-fibrous (Other)	None Detected
332315234-0124B					
MAT-823-D6-04-Mastic 1	OBSERVATION LOUNGE - CARPET MASTIC	Green Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
332315234-0125					
MAT-823-D6-04-Mastic 2	OBSERVATION LOUNGE - CARPET MASTIC	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
332315234-0125A					
MAT-823-D6-04-Leveler	OBSERVATION LOUNGE - CARPET MASTIC	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
332315234-0125B					
MAT-823-D6-05-Wall Covering	COCKTAIL LOUNGE BAR - RUBBER WALL COVERING / MASTIC	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
332315234-0126					
MAT-823-D6-05-Mastic	COCKTAIL LOUNGE BAR - RUBBER WALL COVERING / MASTIC	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
332315234-0126A					
MAT-823-D6-06-Rubber Flooring	COCKTAIL LOUNGE BAR - RUBBER FLOORING / MASTIC	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
332315234-0127					
MAT-823-D6-06-Mastic	COCKTAIL LOUNGE BAR - RUBBER FLOORING / MASTIC	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
332315234-0127A					
MAT-823-D6-07-Mastic 1	DECK 6 HALLWAY - CARPET MASTIC	Blue Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
332315234-0128					
MAT-823-D6-07-Leveler	DECK 6 HALLWAY - CARPET MASTIC	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
332315234-0128A					
MAT-823-D6-07-Mastic 2	DECK 6 HALLWAY - CARPET MASTIC	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
332315234-0128B					

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
MAT-823-D6-07-Flooring	DECK 6 HALLWAY - CARPET MASTIC	White/Black Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
332315234-0128C					
MAT-823-D6-08-Mastic	DECK 6 HALLWAY - CARPET MASTIC	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
332315234-0129					
MAT-823-D6-08-Pad	DECK 6 HALLWAY - CARPET MASTIC	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
332315234-0129A					
MAT-823-D6-09-Mastic 1	DECK 6 HALLWAY - CARPET MASTIC	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
332315234-0130					
MAT-823-D6-09-Mastic 2	DECK 6 HALLWAY - CARPET MASTIC	Gray/Blue Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	None Detected
332315234-0130A					
MAT-823-D6-10-Mastic 1	DECK 6 HALLWAY - CARPET MASTIC	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
332315234-0131					
MAT-823-D6-10-Leveler	DECK 6 HALLWAY - CARPET MASTIC	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
332315234-0131A					
MAT-823-D6-10-Mastic 2	DECK 6 HALLWAY - CARPET MASTIC	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
332315234-0131B					
MAT-823-D6-11-Mastic 1	DECK 6 HALLWAY - CARPET MASTIC	Green Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
332315234-0132					
MAT-823-D6-11-Mastic 2	DECK 6 HALLWAY - CARPET MASTIC	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
332315234-0132A					
MAT-823-D6-11-Leveler	DECK 6 HALLWAY - CARPET MASTIC	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
332315234-0132B					
MAT-823-D6-12-Mastic 1	DECK 6 HALLWAY - CARPET MASTIC	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
332315234-0133					
MAT-823-D6-12-Mastic 2	DECK 6 HALLWAY - CARPET MASTIC	Green Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
332315234-0133A					
MAT-823-D6-12-Leveler	DECK 6 HALLWAY - CARPET MASTIC	Gray Non-Fibrous Homogeneous	5% Cellulose	95% Non-fibrous (Other)	None Detected
332315234-0133B					
MAT-823-D6-13-Baseboard	COCKTAIL LOUNGE - BASEBOARD MASTIC	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
332315234-0134					
MAT-823-D6-13-Mastic 1	COCKTAIL LOUNGE - BASEBOARD MASTIC	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
332315234-0134A					

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
MAT-823-D6-13-Silver Paint 332315234-0134B	COCKTAIL LOUNGE - BASEBOARD MASTIC	Silver Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-823-D6-13-Mastic 2 332315234-0134C	COCKTAIL LOUNGE - BASEBOARD MASTIC	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-823-D6-13-Leveler 332315234-0134D	COCKTAIL LOUNGE - BASEBOARD MASTIC	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-823-D6-14 332315234-0135	COCKTAIL LOUNGE - WALLBOARD	White Fibrous Homogeneous	38% Cellulose	62% Non-fibrous (Other)	None Detected
MAT-823-D6-15 332315234-0136	COCKTAIL LOUNGE - CEILING TILE (CIRCULAR SPECKLES)	Gray/White Fibrous Heterogeneous	70% Min. Wool	30% Non-fibrous (Other)	None Detected
MAT-823-D6-16 332315234-0137	COCKTAIL LOUNGE - CEILING TILE (ELONGATED SPECKLES)	Tan/White Fibrous Heterogeneous	25% Cellulose 45% Min. Wool	30% Non-fibrous (Other)	None Detected
MAT-823-D6-17 332315234-0138	COCKTAIL LOUNGE EMERGENCY EXIT/STORAGE ROOM - CEILING TILE (TEXTURED)	Tan/White Fibrous Heterogeneous	60% Cellulose 7% Min. Wool	33% Non-fibrous (Other)	None Detected
MAT-824-D6-18-Floor Tile 332315234-0139	CAFETERIA - DARK BLUE 18" FLOOR TILE / MASTIC	Blue Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-824-D6-18-Mastic 332315234-0139A	CAFETERIA - DARK BLUE 18" FLOOR TILE / MASTIC	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-824-D6-19-Floor Tile 332315234-0140	CAFETERIA - LIGHT BLUE 18" FLOOR TILE / MASTIC	Blue Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-824-D6-19-Mastic 332315234-0140A	CAFETERIA - LIGHT BLUE 18" FLOOR TILE / MASTIC	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-824-D6-19-Leveler 1 332315234-0140B	CAFETERIA - LIGHT BLUE 18" FLOOR TILE / MASTIC	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-824-D6-19-Leveler 2 332315234-0140C	CAFETERIA - LIGHT BLUE 18" FLOOR TILE / MASTIC	Red Non-Fibrous Homogeneous		100% Non-fibrous (Other)	<1% Chrysotile
MAT-824-D6-20-Basebo ard 332315234-0141	CAFETERIA - BASEBOARD MASTIC	Blue Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-824-D6-20-Mastic 332315234-0141A	CAFETERIA - BASEBOARD MASTIC	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-824-D6-21 332315234-0142	CAFETERIA - WINDOW CAULKING	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
MAT-824-D6-22-Flooring	GALLEY - FLOORING / MASTIC	Blue/Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
332315234-0143					
MAT-824-D6-22-Mastic	GALLEY - FLOORING / MASTIC				Layer Not Present
332315234-0143A					
MAT-824-D6-23-Flooring	GALLEY - FLOORING / MASTIC	Blue Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
332315234-0144					
MAT-824-D6-23-Mastic	GALLEY - FLOORING / MASTIC	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
332315234-0144A					
MAT-824-D6-24-Ceramic Tile	DECK 6 HALLWAY RESTROOM - CERAMIC FLOOR TILE / GROUT	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
332315234-0145					
MAT-824-D6-24-Grout	DECK 6 HALLWAY RESTROOM - CERAMIC FLOOR TILE / GROUT	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
332315234-0145A					
MAT-824-D6-24-Leveler	DECK 6 HALLWAY RESTROOM - CERAMIC FLOOR TILE / GROUT	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
332315234-0145B					
MAT-824-D6-25	DECK 6 HALLWAY - WINDOW CAULKING	Clear Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
332315234-0146					
MAT-824-D6-26-Flooring 1	DECK 6 WOMEN'S RESTROOM - FLOORING	Black/Clear Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
332315234-0147					
MAT-824-D6-26-Flooring 2	DECK 6 WOMEN'S RESTROOM - FLOORING	White/Blue Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
332315234-0147A					
MAT-824-D6-27-Mastic 1	DECK 6 HALLWAY - BASEBOARD MASTIC	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
332315234-0148					
MAT-824-D6-27-Mastic 2	DECK 6 HALLWAY - BASEBOARD MASTIC	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
332315234-0148A					
MAT-824-D6-28-Laminate Flooring	DECK 6 HALLWAY - BLUE LAMINATE FLOORING / MASTIC	Blue Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
332315234-0149					
MAT-824-D6-28-Mastic	DECK 6 HALLWAY - BLUE LAMINATE FLOORING / MASTIC	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
332315234-0149A					
MAT-824-D6-28-Leveler	DECK 6 HALLWAY - BLUE LAMINATE FLOORING / MASTIC	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
332315234-0149B					
MAT-824-D6-30	DECK 6 HANDICAP RESTROOM - FLOORING	Brown/Gray/Tan Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	None Detected
332315234-0150					

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LA Testing Order: 332315234

Customer ID: 32EHS30

Customer PO:

Project ID:

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
MAT-824-D6-31-Flooring 332315234-0151	DECK 6 HANDICAP RESTROOM - FLOORING	Brown/Gray/Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-824-D6-31-Leveler 332315234-0151A	DECK 6 HANDICAP RESTROOM - FLOORING	Red Non-Fibrous Homogeneous		100% Non-fibrous (Other)	<1% Chrysotile
MAT-824-D6-36-Rubber 332315234-0152	GALLEY THRESHOLD - BLACK RUBBER / MASTIC	Black Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	None Detected
MAT-824-D6-36-Mastic 332315234-0152A	GALLEY THRESHOLD - BLACK RUBBER / MASTIC	Clear Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-824-D7-01-Baseboard 332315234-0153	THIRD MATE CLOSET - BASEBOARD MASTIC	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-824-D7-01-Mastic 332315234-0153A	THIRD MATE CLOSET - BASEBOARD MASTIC	Brown Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
MAT-824-D7-02 332315234-0154	THIRD MATE ROOM - BASEBOARD MASTIC	Brown Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
MAT-824-D7-03-Mastic 1 332315234-0155	THIRD MATE CLOSET - TILE / MASTIC	Black Non-Fibrous Homogeneous		97% Non-fibrous (Other)	3% Chrysotile
MAT-824-D7-03-Floor Tile 332315234-0155A	THIRD MATE CLOSET - TILE / MASTIC	Tan Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
MAT-824-D7-03-Mastic 2 332315234-0155B	THIRD MATE CLOSET - TILE / MASTIC	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-824-D7-03-Foam 332315234-0155C	THIRD MATE CLOSET - TILE / MASTIC	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-824-D7-04 332315234-0156	RECLINER LOUNGE - CEILING TILE (CIRCULAR SPECKLES)	Gray/White Fibrous Heterogeneous	70% Min. Wool	30% Non-fibrous (Other)	None Detected
MAT-824-D7-05 332315234-0157	RECLINER LOUNGE - CEILING TILE (TEXTURED)	Gray/White Fibrous Heterogeneous	30% Cellulose 40% Min. Wool	30% Non-fibrous (Other)	None Detected
MAT-824-D7-06 332315234-0158	RECLINER LOUNGE - CEILING TILE (ELONGATED TEXTURED)	Tan/White Fibrous Heterogeneous	60% Cellulose 5% Glass	35% Non-fibrous (Other)	None Detected
MAT-824-D7-07 332315234-0159	RECLINER LOUNGE - CEILING TILE (ELONGATED SPECKLES)	Gray/White Fibrous Heterogeneous	10% Cellulose 60% Min. Wool	30% Non-fibrous (Other)	None Detected

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Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
MAT-824-D7-08-Mastic 1	BRIDGE HALLWAY - CARPET MASTIC	Blue Fibrous Heterogeneous	3% Synthetic	97% Non-fibrous (Other)	None Detected
332315234-0160					
MAT-824-D7-08-Mastic 2	BRIDGE HALLWAY - CARPET MASTIC	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
332315234-0160A					
MAT-824-D7-08-Leveler	BRIDGE HALLWAY - CARPET MASTIC	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
332315234-0160B					
MAT-824-D7-09-Mastic 1	RECLINER LOUNGE - CARPET MASTIC	Green Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
332315234-0161					
MAT-824-D7-09-Mastic 2	RECLINER LOUNGE - CARPET MASTIC	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
332315234-0161A					
MAT-824-D7-09-Leveler	RECLINER LOUNGE - CARPET MASTIC	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
332315234-0161B					
MAT-824-D7-10-Lamina te Flooring	DECK 7 STAIRWELL - LAMINATE FLOORING / MASTIC	Tan/Blue Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
332315234-0162					
MAT-824-D7-10-Mastic	DECK 7 STAIRWELL - LAMINATE FLOORING / MASTIC	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
332315234-0162A					
MAT-824-D7-11-Mastic 1	RECLINER LOUNGE - CARPET MASTIC	Blue Fibrous Heterogeneous	5% Synthetic	95% Non-fibrous (Other)	None Detected
332315234-0163					
MAT-824-D7-11-Mastic 2	RECLINER LOUNGE - CARPET MASTIC	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
332315234-0163A					
MAT-824-D7-12	DECK 7 WOMEN'S RESTROOM - BASEBOARD CAULKING	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
332315234-0164					
MAT-824-D7-13	RECLINER LOUNGE - DOOR CAULKING	Gray/Clear Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
332315234-0165					
MAT-824-D7-14-Mastic 1	DECK 7 NEAR EXIT - BASEBOARD MASTIC	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
332315234-0166					
MAT-824-D7-14-Tape	DECK 7 NEAR EXIT - BASEBOARD MASTIC	Yellow Fibrous Homogeneous	90% Cellulose	10% Non-fibrous (Other)	None Detected
332315234-0166A					
MAT-824-D7-14-Mastic 2	DECK 7 NEAR EXIT - BASEBOARD MASTIC	Brown/White Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	<1% Chrysotile
332315234-0166B					
<i>Result includes a small amount of inseparable attached paint material</i>					
MAT-824-D7-15	RECLINER LOUNGE - BASEBOARD MASTIC	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
332315234-0167					

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Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
MAT-824-D7-16 332315234-0168	DECK 7 MEN'S RESTROOM - WALLBOARD	Brown/White Fibrous Heterogeneous	20% Cellulose 5% Glass	75% Non-fibrous (Other)	None Detected
MAT-824-D7-17 332315234-0169	DECK 7 MEN'S SHOWERS - SHOWER CAULKING	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-824-D7-18 332315234-0170	DECK 7 FIDLEY - DOOR CAULKING	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-824-D7-19 332315234-0171	DECK 7 FIDLEY - HVAC CAULKING	White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-824-D7-20-Flooring 332315234-0172	DECK 7 WOMEN'S RESTROOM - RED FLOORING	Red Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-824-D7-20-Mastic 332315234-0172A	DECK 7 WOMEN'S RESTROOM - RED FLOORING	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-824-D7-21-Flooring 332315234-0173	DECK 7 NEAR MEN'S RESTROOM - GRAY / GREEN FLOORING	White/Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-824-D7-21-Mastic 332315234-0173A	DECK 7 NEAR MEN'S RESTROOM - GRAY / GREEN FLOORING	Gray/Tan/Clear Fibrous Heterogeneous	8% Cellulose	92% Non-fibrous (Other)	None Detected
<i>Result includes a small amount of inseparable attached wood</i>					
MAT-824-D7-22 332315234-0174	DECK 7 MEN'S RESTROOM - TAN FLOORING	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-824-D7-23-Mastic 332315234-0175	BRIDGE HALLWAY - CARPET MASTIC	Yellow Fibrous Heterogeneous	5% Synthetic	95% Non-fibrous (Other)	None Detected
MAT-824-D7-23-Flooring 332315234-0175A	BRIDGE HALLWAY - CARPET MASTIC	Brown/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-824-D7-24-Mastic 332315234-0176	BRIDGE HALLWAY - FLOOR TILE / MASTIC	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-824-D7-24-Flooring 332315234-0176A	BRIDGE HALLWAY - FLOOR TILE / MASTIC	Pink Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
MAT-824-D7-24-Mastic 332315234-0176B	BRIDGE HALLWAY - FLOOR TILE / MASTIC	Black Non-Fibrous Homogeneous		97% Non-fibrous (Other)	3% Chrysotile
MAT-824-D7-24-Flooring 332315234-0176C	BRIDGE HALLWAY - FLOOR TILE / MASTIC	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-824-D7-25-Carpet 332315234-0177	BRIDGE HALLWAY - CARPET ADHESIVE / UNDERLAYMENT	Gray/Black Fibrous Homogeneous	98% Synthetic	2% Non-fibrous (Other)	None Detected

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Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
MAT-824-D7-25-Adhesive	BRIDGE HALLWAY - CARPET ADHESIVE / UNDERLAYMENT	Gray/Clear Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	None Detected
332315234-0177A Result includes a small amount of inseparable attached underlayment material					
MAT-824-D7-25-Underlayment	BRIDGE HALLWAY - CARPET ADHESIVE / UNDERLAYMENT	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
332315234-0177B					
MAT-824-D7-26-Underlayment	CAPTAIN ROOM - CARPET ADHESIVE / UNDERLAYMENT	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
332315234-0178					
MAT-824-D7-26-Adhesive 1	CAPTAIN ROOM - CARPET ADHESIVE / UNDERLAYMENT	Gray/Clear Non-Fibrous Heterogeneous		100% Non-fibrous (Other)	None Detected
332315234-0178A Result includes a small amount of inseparable attached underlayment material					
MAT-824-D7-26-Adhesive 2	CAPTAIN ROOM - CARPET ADHESIVE / UNDERLAYMENT	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
332315234-0178B					
MAT-824-D7-26-Flooring	CAPTAIN ROOM - CARPET ADHESIVE / UNDERLAYMENT	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
332315234-0178C					
MAT-824-D7-27-Adhesive	CAPTAIN ROOM - CARPET ADHESIVE / UNDERLAYMENT	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
332315234-0179					
MAT-824-D7-27-Underlayment	CAPTAIN ROOM - CARPET ADHESIVE / UNDERLAYMENT	White/Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
332315234-0179A					
MAT-824-D7-28-Adhesive	SECOND MATE ROOM - CARPET ADHESIVE / UNDERLAYMENT	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
332315234-0180					
MAT-824-D7-28-Underlayment	SECOND MATE ROOM - CARPET ADHESIVE / UNDERLAYMENT	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	<1% Chrysotile
332315234-0180A					
MAT-824-D7-29	RECLINER LOUNGE - L-CHANNEL MASTIC	Beige Fibrous Homogeneous	5% Glass	95% Non-fibrous (Other)	None Detected
332315234-0181					
MAT-824-D7-30	SOLARIUM WOMEN'S RESTROOM - FLOORING	White/Blue Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
332315234-0182					
MAT-824-D7-31	SOLARIUM MEN'S RESTROOM - FLOORING	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
332315234-0183					
MAT-824-D7-32	SOLARIUM - FLOORING	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
332315234-0184					
MAT-824-D7-33-Flooring	THIRD MATE RESTROOM - FLOORING	White/Blue Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
332315234-0185					

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Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
MAT-824-D7-33-Leveler 332315234-0185A	THIRD MATE RESTROOM - FLOORING	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-824-D7-34 332315234-0186	SECOND MATE RESTROOM - SHOWER CAULKING	Brown/White Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-824-D7-35 332315234-0187	SECOND MATE RESTROOM - FLOORING	White/Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-824-D7-36-Mastic 1 332315234-0188	FIRST ENGINEER ROOM - FLOORING	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-824-D7-36-Carpet 332315234-0188A	FIRST ENGINEER ROOM - FLOORING	Red/Blue Fibrous Homogeneous	98% Synthetic	2% Non-fibrous (Other)	None Detected
MAT-824-D7-36-Mastic 2 332315234-0188B	FIRST ENGINEER ROOM - FLOORING	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-824-D7-36-Pad 332315234-0188C	FIRST ENGINEER ROOM - FLOORING	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-824-D7-36-Mastic 3 332315234-0188D	FIRST ENGINEER ROOM - FLOORING	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-824-D7-36-Floor Tile 332315234-0188E	FIRST ENGINEER ROOM - FLOORING	Pink Non-Fibrous Homogeneous		98% Non-fibrous (Other)	2% Chrysotile
MAT-824-D7-36-Mastic 4 332315234-0188F	FIRST ENGINEER ROOM - FLOORING	Black Non-Fibrous Homogeneous		96% Non-fibrous (Other)	4% Chrysotile
MAT-824-D7-37-Adhesi ve 332315234-0189	WHEELHOUSE - WALLBOARD	Beige Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-824-D7-37-Wallbo ard 332315234-0189A	WHEELHOUSE - WALLBOARD	Tan/White Fibrous Heterogeneous	20% Cellulose	80% Non-fibrous (Other)	None Detected
MAT-824-D8-01 332315234-0190	FAN ROOM - HVAC CAULKING	Gray Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-825-EXT-01 332315234-0191	SOLARIUM EXTERIOR - WINDOW CAULKING	Gray/Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-825-EXT-02 332315234-0192	DECK 6 EXTERIOR - BLACK WINDOW CAULKING	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
MAT-825-EXT-03-Caulk 1 332315234-0193	DECK 6 EXTERIOR - YELLOW & BLACK WINDOW CAULKING	White/Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

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Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
MAT-825-EXT-03-Caulk 2	DECK 6 EXTERIOR - YELLOW & BLACK WINDOW CAULKING	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

332315234-0193A

Analyst(s)

Alexis Rodriguez (72)

Christopher Lawrence (26)

Erica Hunter (57)

Kaylin Luciani (86)

Mindy Le (36)

Tony Salgado (25)

Thanh Nguyen (78)

Michael Chapman, Laboratory Manager
or Other Approved Signatory

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Samples analyzed by LA Testing Huntington Beach, CA NVLAP Lab Code 101384-0, CA ELAP 1406

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Asbestos Chain of Custody

1310 E. 66th Ave. #2
 Anchorage, AK 99518
 Phone: 907-332-0456
 Email:

#332315234

Information

Customer ID: 32EHS30
Company Name: Satori Group, Inc
Street Address: 1310 E 66th Ave Ste 2
City/State/Zip: Anchorage, AK 99518
Phone: (907) 332-0465
Email(s) for Report: acaldwell@gosatori.com; jbrown@gosatori.com; ascheiner@gosatori.com; tmasterson@gosatori.com
Email(s) for Invoice: jilucas@gosatori.com; cborstad@gosatori.com

Project Information

Project Name/No.: DOT Ferry HBMS and Management Plan **Satori Project No.:** 31225
Sampled By (Name): Anna Scheiner, Jasmine Brown **No. of Samples in Shipment:** 193
Sampled By (Signature): *Anna Scheiner*

Turn-Around Time (TAT)

- 3 Hours 4-4.5 Hours 6 Hours 24 Hours 32 Hours 48 Hours 72 Hours 96 Hours
 AHERA ONLY

Test Selection

- | | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>PCM Air</p> <p><input type="checkbox"/> NIOSH 7400
 <input type="checkbox"/> NIOSH 7400 w/8hr, TWA</p> <p>PLM – Bulk (reporting limit)</p> <p><input checked="" type="checkbox"/> PLM EPA 600/R-93/116 (<1%)
 <input type="checkbox"/> PLM EPA NOB (<1%)
 <input type="checkbox"/> POINT COUNT
 <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1,000 (<0.1%)
 POINT COUNT w/GRAVIMETRIC
 <input type="checkbox"/> 400 (<0.25%) <input type="checkbox"/> 1,000 (<0.1%)
 <input type="checkbox"/> NIOSH 9002 (<1%)
 <input type="checkbox"/> NYS 198.8 (Vermiculite SM-V)</p> | <p>TEM - Air</p> <p><input type="checkbox"/> AHERA 40 CFR, Part 763
 <input type="checkbox"/> NIOSH 7402
 <input type="checkbox"/> EPA Level II
 <input type="checkbox"/></p> <p>TEM - Bulk</p> <p><input type="checkbox"/> TEM EPA NOB
 <input type="checkbox"/> NYS NOB 198.4 (Non-Friable-NY)
 <input type="checkbox"/> TEM EPA 600/R-93/116 w/Milling Prep (0.1%)</p> | <p>TEM – Settled Dust</p> <p><input type="checkbox"/> Microvac – ASTM D5755
 <input type="checkbox"/> Wipe – ASTM D6480
 <input type="checkbox"/> Qualitative via Filtration Prep
 <input type="checkbox"/> Qualitative via Drop Mount Prep</p> <p>Soil-Rock-Vermiculite (reporting limit*)</p> <p><input type="checkbox"/> PLM EPA 600/R-93/116 w/Milling Prep (<0.25%)
 <input type="checkbox"/> PLM EPA 600/R-93/116 w/Milling Prep (<0.1%)
 <input type="checkbox"/> TEM EPA 600/R-93/116 w/Milling Prep (<0.1%)
 <input type="checkbox"/> TEM Qualitative via Filtration Prep
 <input type="checkbox"/> TEM Qualitative via Drop Mount Prep</p> |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Positive Stop - Clearly Identified Homogenous Areas (HA) Filter Pore Size (Air Samples): 0.8um 0.45um

Sample Number	Sample Location/Description	Volume, Area, or HA	Date/Time Sampled (Air Monitoring Only)
MAT-825-IB-01	Innerbottom – Blown-on Insulation		
MAT-822-D1-01	MSD Room – Pipe Insulation, Black Foam		
MAT-822-D1-02	MSD Room – TSI Elbow		
MAT-822-D1-03	MSD Room – TSI Linear		
MAT-822-D1-04	MSD Room – Ceiling Insulation		
MAT-822-D1-05	MSD Room – Gasket		
MAT-822-D1-06	MSD Room - Packing		
MAT-822-D1-07	Aux Machinery Room – Foam Insulation		

Special Instructions

Method of Shipment: FedEx Pak **Sample Condition Upon Receipt:**

Relinquished By: Anna Scheiner **Date/Time:** 8/30/23, 1 PM **Received By:** *EMILY MANORELLA* **Date/Time:** 8/31/23

Relinquished By: _____ **Date/Time:** _____ **Received By:** *ELM (Fx)* **Date/Time:** 11:00 AM

#332315234



Asbestos Chain of Custody

Sample Number	Sample Location/Description	Volume, Area, or HA	Date/Time Sampled (Air Monitoring Only)
MAT-822-D1-08	Engine Room – TSI Elbow		
MAT-822-D1-09	Engine Room – Insulation Tape		
MAT-822-D1-10	Shaft Alley - Gasket		
MAT-822-D1-11	Shaft Alley – TSI Elbow		
MAT-822-D1-12	Shaft Alley – TSI Linear		
MAT-822-D2-01	Aux Machinery Room – TSI Elbow		
MAT-822-D2-02	Aux Machinery Room – TSI Linear		
MAT-822-D2-03	Aux Machinery Room – Silver Paint		
MAT-822-D2-04	Engineers’ Stores – TSI Elbow		
MAT-822-D2-05	Engineers’ Stores – TSI Elbow		
MAT-822-D2-06	Engineers’ Stores – TSI Linear		
MAT-822-D2-07	Engineers’ Store – Sink Insulation		
MAT-822-D2-08	Engineers’ Store – Sink Caulking		
MAT-822-D2-09	Engine Room – TSI Elbow		
MAT-822-D2-10	Engine Room – Ceiling & Wall Insulation		
MAT-822-D2-11	Engine Room – Wall Pegboard & Insulation		
MAT-822-D2-13	Thaw Room Ext Wall – Black Tar		
MAT-822-D2-14	Thaw Room Ext Wall – Piping Insulation		
MAT-823-D2-15	Steward SR – Wallboard		
MAT-823-D2-16	Elevator Machine Room – Packing		
MAT-823-D2-17	Steward SR – Baseboard Adhesive		
MAT-823-D2-18	Steward SR – Flooring Adhesive		
MAT-823-D2-19	Steward SR – Flooring Adhesive		
MAT-823-D2-20	Steward SR – Baseboard Adhesive		
MAT-823-D2-21	Steward SR – Baseboard Adhesive		
MAT-823-D2-22	Fan Room No. 3 – Wall Pegboard & Insulation		
MAT-823-D2-23	Fan Room No. 3 – TSI Elbow		
MAT-823-D2-24	Steward SR Laundry Room – Flooring		
MAT-823-D2-25	Laundry Room – Green Caulking		



Asbestos Chain of Custody

1310 E. 66th Ave. #2
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 Phone: 907-332-0456
 Email:

Sample Number	Sample Location/Description	Volume, Area, or HA	Date/Time Sampled (Air Monitoring Only)
MAT-823-D2-26	Steward SR – Flooring Adhesive		
MAT-823-D2-27	Steward SR Bathroom – Flooring		
MAT-823-D2-28	Steward SR Bathroom – Flooring		
MAT-823-D2-29	Steward SR – Flooring Adhesive		
MAT-823-D2-30	Stewards Recreation Room – Wallboard		
MAT-822-D3-01	Car Deck – Wall Insulation		
MAT-822-D3-02	Car Deck – Wall Insulation		
MAT-822-D3-03	Car Deck – Wall Insulation		
MAT-822-D3-04	Car Deck – Wall Insulation		
MAT-822-D3-05	Car Deck – TSI Elbow		
MAT-822-D3-06	Car Deck – TSI Elbow		
MAT-822-D3-07	Car Deck – Spray-On Texture		
MAT-822-D3-08	Car Deck – TSI Elbow/ Spray-On Texture		
MAT-822-D3-09	Car Deck – Spray-On Texture		
MAT-822-D3-10	Car Deck – TSI Elbow/ Spray-On Texture		
MAT-823-D4-01	Bosun Stores – Spray-On Texture		
MAT-823-D4-02	Bosun Stores – Spray-On Texture		
MAT-823-D4-03	Bosun Stores – Spray-On Texture		
MAT-823-D4-04	Bosun Stores – Blue Flooring/Black Tar-Like Material		
MAT-823-D4-05	Bosun Stores – Black Adhesive/Blue Paint		
MAT-823-D4-06	Bosun Stores – Black Packing		
MAT-823-D4-07	Bosun Stores – Ceiling Insulation		
MAT-823-D4-08	Bosun Stores – Wall Insulation		
MAT-823-D4-09	BO 8 – 9” Floor Tile/Mastic		
MAT-823-D4-10	BO 8 – Wallboard		
MAT-823-D4-11	BO 8 – Wallboard/Baseboard Adhesive		
MAT-823-D4-12	BO 8 – HVAC Caulking		
MAT-823-D4-13	Room 1 – Flooring/Mastic		
MAT-823-D4-14	Crew Quarters Hallway – 12” Floor Tile/Mastic		



Asbestos Chain of Custody

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Email:

Sample Number	Sample Location/Description	Volume, Area, or HA	Date/Time Sampled (Air Monitoring Only)
MAT-823-D4-15	Crew Quarters Hallway – Baseboard Mastic		
MAT-823-D4-16	Oiler Room – Baseboard Mastic		
MAT-823-D4-17	Oiler Room – Carpet Mastic		
MAT-823-D4-18	Room 1 – Wallboard		
MAT-823-D4-19	Laundry/Sink Room – Tan Tile Flooring		
MAT-823-D4-20	Laundry/Sink Room – Gray Tile Flooring		
MAT-823-D4-21	Laundry/Sink Room – TSI Elbow		
MAT-823-D4-22	Crew Quarters Hallway – Tan/Blue Concrete Flooring		
MAT-823-D4-23	Oiler Room – HVAC Caulking		
MAT-823-D4-24	Crew Quarters Hallway – Flooring Beneath 12” Tile		
MAT-823-D4-25	Crew Quarters Stairwell – Floor Caulking		
MAT-823-D4-26	Jr. Engineer Room – Carpet Mastic		
MAT-823-D4-27	Jr. Engineer Room – 9” Floor Tile/Mastic		
MAT-823-D4-32	Crew Quarters Restroom – Blue Flooring		
MAT-823-D4-33	Crew Quarters Restroom – Black Threshold		
MAT-823-D4-34	Crew Quarters Restroom – Tan Flooring		
MAT-823-D4-35	Fan Room No. 1 – Wall Pegboard/Insulation		
MAT-823-D4-36	Room 5 – Sink Caulking		
MAT-824-D5-01	Cabin Deck Hallway – Carpet Mastic		
MAT-824-D5-02	Cabin Deck Hallway – Carpet Mastic		
MAT-824-D5-03	Cabin Deck Hallway – Carpet Mastic		
MAT-824-D5-04	Cabin Deck Stairwell – Blue Flooring		
MAT-824-D5-05	Cabin Deck – Baseboard Adhesive		
MAT-824-D5-06	Cabin Deck – Baseboard Adhesive		
MAT-824-D5-07	First Aid Room – Tan Flooring		
MAT-824-D5-08	Fan Room No. 5 – Wall Pegboard/Insulation		
MAT-824-D5-09	Cabin 1B – Carpet Mastic		
MAT-824-D5-10	Cabin Deck Hallway – Carpet Mastic		
MAT-824-D5-11	Cabin Deck Hallway – Carpet Mastic		

1310 E. 66th Ave. #2
 Anchorage, AK 99518
Phone: 907-332-0456
Email:



Asbestos Chain of Custody

Sample Number	Sample Location/Description	Volume, Area, or HA	Date/Time Sampled (Air Monitoring Only)
MAT-824-D5-12	Cabin Deck Hallway – Carpet Mastic		
MAT-824-D5-13	Cabin Deck Forward Entryway – Tan Flooring		
MAT-824-D5-14	Cabin Deck Forward Entryway – Brown Flooring		
MAT-824-D5-15	Cabin Deck Forward Entryway – Wall Pegboard/Insulation		
MAT-824-D5-16	Cabin Deck Forward Entryway – 12" Tile/Mastic		
MAT-824-D5-17	Cabin Deck Forward Entryway – Flooring Beneath 12" Tile/Mastic		
MAT-824-D5-18	Cabin 1B – Window Caulking		
MAT-824-D5-19	Cabin 1B – Bathroom Flooring		
MAT-824-D5-20	Cabin 1B – Sink Caulking		
MAT-824-D5-21	Cabin 1B – Shower Flooring		
MAT-824-D5-22	Cabin 3B – Window Caulking		
MAT-824-D5-23	Cabin 3B – Wallboard		
MAT-824-D5-24	F.S.D. 35 – Door Frame Insulation		
MAT-824-D5-25	Senior Purser Room – Shower Flooring		
MAT-824-D5-26	Cabin 3B – Carpet Mastic		
MAT-824-D5-27	Cabin 3B – Shower Flooring		
MAT-824-D5-28	Cabin 3B – Bathroom Flooring		
MAT-824-D5-29	Senior Purser Room – Green Flooring		
MAT-824-D5-30	Senior Purser Room – Baseboard Adhesive		
MAT-824-D5-31	Cabin 3B – Sink Caulking		
MAT-824-D5-32	Senior Purser Room – Sink Caulking		
MAT-824-D5-33	Senior Purser Room – Bathroom Flooring		
MAT-824-D5-35	Cabin 14B – Carpet Mastic		
MAT-824-D5-36	Cabin 14B – Sink Caulking		
MAT-824-D5-37	Cabin Deck Lobby – Wood Panel Flooring/Mastic		
MAT-824-D5-38	Cabin 24C – Carpet Mastic		
MAT-823-D6-01	Cocktail Lounge – Carpet Mastic		
MAT-823-D6-02	Cocktail Lounge – Carpet Mastic		
MAT-823-D6-03	Observation Lounge – Carpet Mastic		



Asbestos Chain of Custody

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Sample Number	Sample Location/Description	Volume, Area, or HA	Date/Time Sampled (Air Monitoring Only)
MAT-823-D6-04	Observation Lounge – Carpet Mastic		
MAT-823-D6-05	Cocktail Lounge Bar – Rubber Wall Covering/Mastic		
MAT-823-D6-06	Cocktail Lounge Bar – Rubber Flooring/Mastic		
MAT-823-D6-07	Deck 6 Hallway – Carpet Mastic		
MAT-823-D6-08	Deck 6 Hallway – Carpet Mastic		
MAT-823-D6-09	Deck 6 Hallway – Carpet Mastic		
MAT-823-D6-10	Deck 6 Hallway – Carpet Mastic		
MAT-823-D6-11	Deck 6 Hallway – Carpet Mastic		
MAT-823-D6-12	Deck 6 Hallway – Carpet Mastic		
MAT-823-D6-13	Cocktail Lounge – Baseboard Mastic		
MAT-823-D6-14	Cocktail Lounge – Wallboard		
MAT-823-D6-15	Cocktail Lounge – Ceiling Tile (Circular Speckles)		
MAT-823-D6-16	Cocktail Lounge – Ceiling Tile (Elongated Speckles)		
MAT-823-D6-17	Cocktail Lounge Emergency Exit/Storage Room – Ceiling Tile (Textured)		
MAT-824-D6-18	Cafeteria – Dark Blue 18” Floor Tile/Mastic		
MAT-824-D6-19	Cafeteria – Light Blue 18” Floor Tile/Mastic		
MAT-824-D6-20	Cafeteria – Baseboard Mastic		
MAT-824-D6-21	Cafeteria – Window Caulking		
MAT-824-D6-22	Galley – Flooring/Mastic		
MAT-824-D6-23	Galley – Flooring/Mastic		
MAT-824-D6-24	Deck 6 Hallway Restroom – Ceramic Floor Tile/Grout		
MAT-824-D6-25	Deck 6 Hallway – Window Caulking		
MAT-824-D6-26	Deck 6 Women’s Restroom – Flooring		
MAT-824-D6-27	Deck 6 Hallway – Baseboard Mastic		
MAT-824-D6-28	Deck 6 Hallway – Blue Laminate Flooring/Mastic		
MAT-824-D6-30	Deck 6 Handicap Restroom – Flooring		
MAT-824-D6-31	Deck 6 Handicap Restroom – Flooring		
MAT-824-D6-36	Galley Threshold – Black Rubber/Mastic		



#332315234

Asbestos Chain of Custody

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 Anchorage, AK 99518
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 Email:

Sample Number	Sample Location/Description	Volume, Area, or HA	Date/Time Sampled (Air Monitoring Only)
MAT-824-D7-01	Third Mate Closet – Baseboard Mastic		
MAT-824-D7-02	Third Mate Room – Baseboard Mastic		
MAT-824-D7-03	Third Mate Closet – Tile/Mastic		
MAT-824-D7-04	Recliner Lounge – Ceiling Tile (Circular Speckles)		
MAT-824-D7-05	Recliner Lounge – Ceiling Tile (Textured)		
MAT-824-D7-06	Recliner Lounge – Ceiling Tile (Elongated Texture)		
MAT-824-D7-07	Recliner Lounge – Ceiling Tile (Elongated Speckles)		
MAT-824-D7-08	Bridge Hallway – Carpet Mastic		
MAT-824-D7-09	Recliner Lounge – Carpet Mastic		
MAT-824-D7-10	Deck 7 Stairwell – Laminate Flooring/Mastic		
MAT-824-D7-11	Recliner Lounge – Carpet Mastic		
MAT-824-D7-12	Deck 7 Women's Restroom – Baseboard Caulking		
MAT-824-D7-13	Recliner Lounge – Door Caulking		
MAT-824-D7-14	Deck 7 Near Exit – Baseboard Mastic		
MAT-824-D7-15	Recliner Lounge – Baseboard Mastic		
MAT-824-D7-16	Deck 7 Men's Restroom – Wallboard		
MAT-824-D7-17	Deck 7 Men's Showers – Shower Caulking		
MAT-824-D7-18	Deck 7 Fidley – Door Caulking		
MAT-824-D7-19	Deck 7 Fidley – HVAC Caulking		
MAT-825-D7-20	Deck 7 Women's Restroom – Red Flooring		
MAT-825-D7-21	Deck 7 Near Men's Restroom – Gray/Green Flooring		
MAT-825-D7-22	Deck 7 Men's Restroom – Tan Flooring		
MAT-825-D7-23	Bridge Hallway – Carpet Mastic		
MAT-825-D7-24	Bridge Hallway – Floor Tile/Mastic		
MAT-825-D7-25	Bridge Hallway – Carpet Adhesive/Underlayment		
MAT-825-D7-26	Captain Room – Carpet Adhesive/Underlayment		
MAT-825-D7-27	Captain Room – Carpet Adhesive/Underlayment		
MAT-825-D7-28	Second Mate Room – Carpet Adhesive/Underlayment		

#332315234

Martorella, Emily

From: Anna Scheiner <ascheiner@gosatori.com>
Sent: Thursday, August 31, 2023 4:01 PM
To: Martorella, Emily; Alan Caldwell; Jasmine Brown; Talon Masterson
Cc: LA Testing Lab - Huntington Beach
Subject: RE: TAT Accommodation | DOT Ferry HBMS and Management Plan - Satori Pro. No: 31225

Categories: Emily 2

[EXTERNAL E-MAIL]

Good Afternoon Emily,

The one-week TAT is okay. Thank you for letting us know.

Have a great day!

Anna Scheiner
Environmental Technician



1310 East 66th Avenue, Suite 2, Anchorage, AK 99518
Phone: (907) 332-0456 Fax: (907) 332-0457
www.gosatori.com

From: Martorella, Emily <emartorella@latesting.com>
Sent: Thursday, August 31, 2023 12:37 PM
To: Alan Caldwell <acaldwell@gosatori.com>; Jasmine Brown <jbrown@gosatori.com>; Anna Scheiner <ascheiner@gosatori.com>; Talon Masterson <tmasterson@gosatori.com>
Cc: LA Testing Lab - Huntington Beach <hblab@latesting.com>
Subject: TAT Accommodation | DOT Ferry HBMS and Management Plan - Satori Pro. No: 31225

Good afternoon,

Please see the attachment for reference.

The department has informed us that the fastest TAT we can currently accommodate for this project is a 1 Week TAT with results 9/8/23 11:00 AM. Unless otherwise directed we will proceed with the 1 Week TAT. We sincerely apologize for any inconveniences this may cause and will do our best to get the results out sooner if possible. Please let us know if you have any questions or concerns.

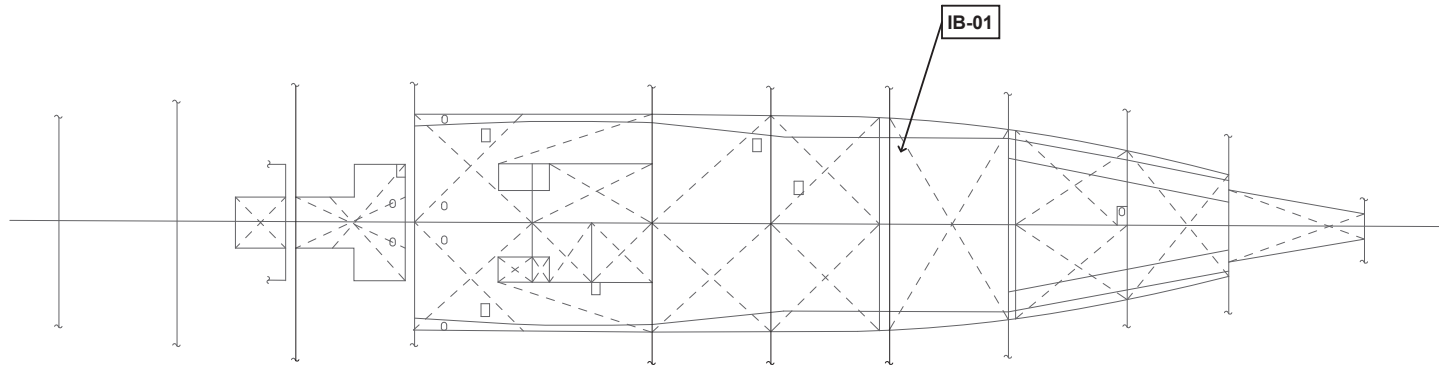
Thank you for your patience and understanding,

APPENDIX B

Sample Location Diagrams



1310 E 66th Avenue, Suite 2
Anchorage, AK 99518



XX-XX → = SAMPLE POSITIVE
XX-XX → = SAMPLE NEGATIVE

PROJECT
**DOT FERRY HBMS &
MANAGEMENT PLAN**

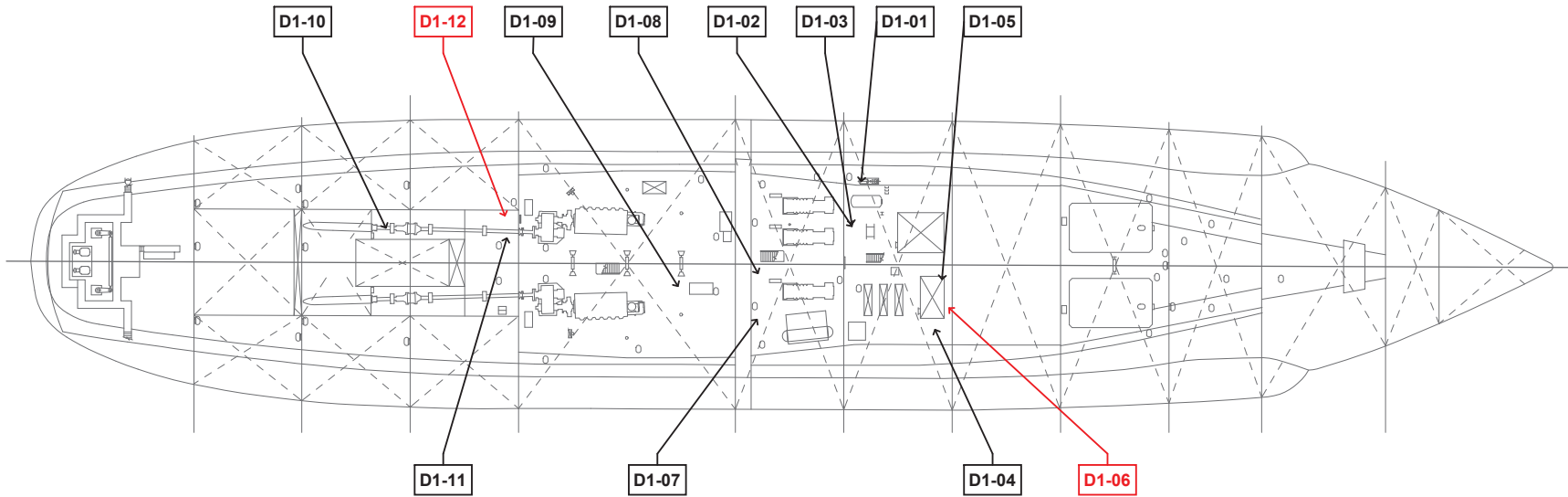
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**MV MATANUSKA
INNERBOTTOM**

CLIENT
**DEPARTMENT OF
TRANSPORTATION &
PUBLIC FACILITIES**

DRAWN BY Godlove Ikegwuonu	CHECKED BY Anna Scheiner	DATE 12/1/23
SCALE (@ A1) NOT TO SCALE	PROJECT NUMBER 31225	
DRAWING NUMBER D0		REV



1310 E 66th Avenue, Suite 2
Anchorage, AK 99518



XX-XX → = SAMPLE POSITIVE
XX-XX → = SAMPLE NEGATIVE

PROJECT
DOT FERRY HBMS & MANAGEMENT PLAN

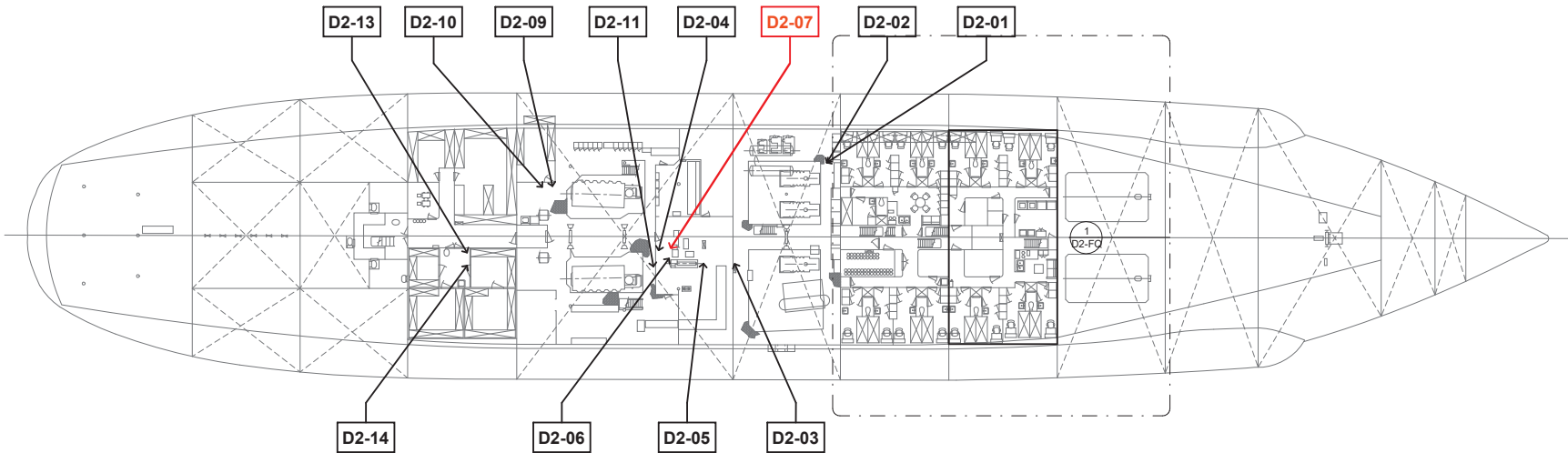
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 HOLD DECK 1**

CLIENT
**DEPARTMENT OF
 TRANSPORTATION &
 PUBLIC FACILITIES**

DRAWN BY Godlove Ikegwuonu	CHECKED BY Anna Scheiner	DATE 12/1/23
SCALE (@ A1) NOT TO SCALE	PROJECT NUMBER 31225	
DRAWING NUMBER D1		REV



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Anchorage, AK 99518



XX-XX → = SAMPLE POSITIVE
XX-XX → = SAMPLE NEGATIVE

PROJECT
DOT FERRY HBMS & MANAGEMENT PLAN

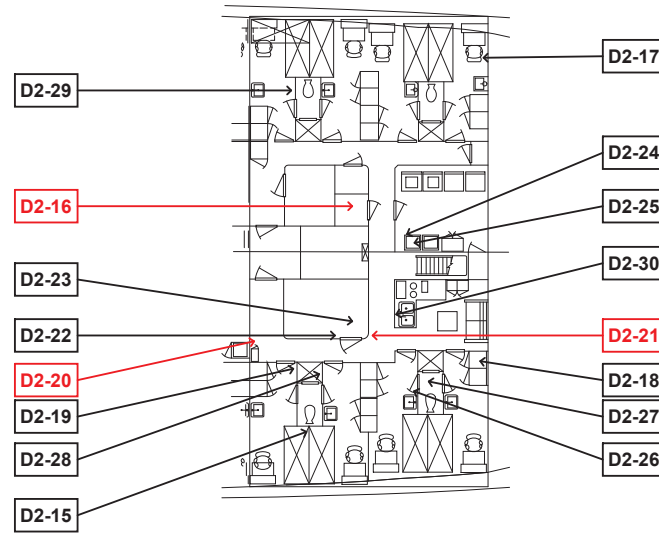
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 SECOND DECK 2**

CLIENT
**DEPARTMENT OF
 TRANSPORTATION &
 PUBLIC FACILITIES**

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SCALE (@ A1) NOT TO SCALE	PROJECT NUMBER 31225	
DRAWING NUMBER D2		REV



1310 E 66th Avenue, Suite 2
Anchorage, AK 99518



XX-XX → = SAMPLE POSITIVE
XX-XX → = SAMPLE NEGATIVE

PROJECT
 DOT FERRY HBMS & MANAGEMENT PLAN

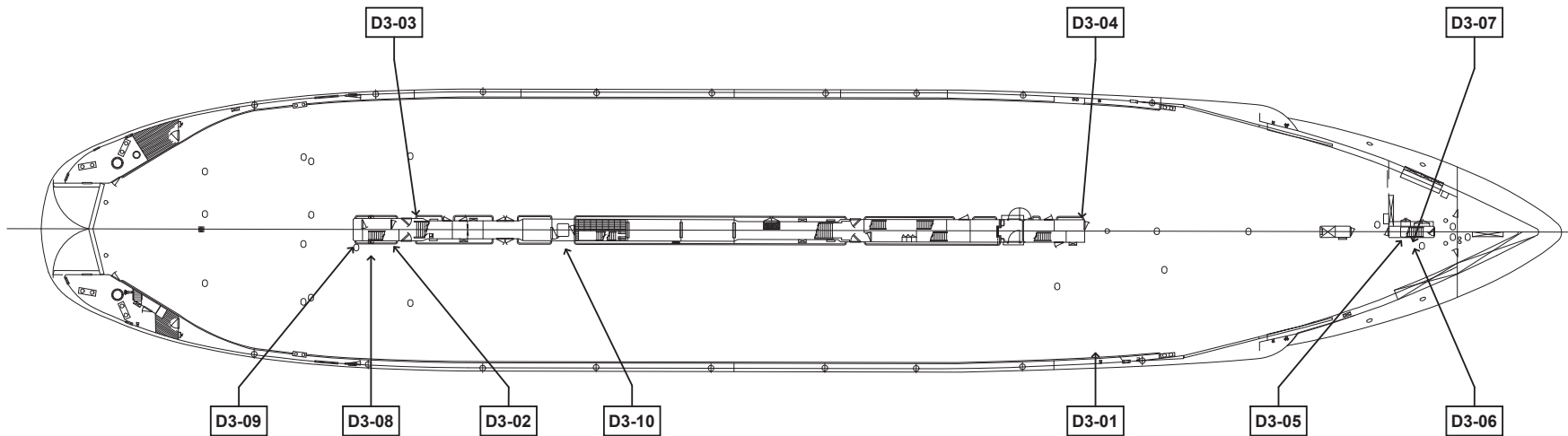
TITLE
 MV MATANUSKA
 SECOND DECK 2 -
 FORWARD QUARTERS

CLIENT
 DEPARTMENT OF
 TRANSPORTATION &
 PUBLIC FACILITIES

DRAWN BY Godlove Ikegwuonu	CHECKED BY Anna Scheiner	DATE 12/1/23
SCALE (@ A1) NOT TO SCALE	PROJECT NUMBER 31225	
DRAWING NUMBER D2-FQ	REV	



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Anchorage, AK 99518



XX-XX → = SAMPLE POSITIVE
XX-XX → = SAMPLE NEGATIVE

PROJECT
DOT FERRY HBMS & MANAGEMENT PLAN

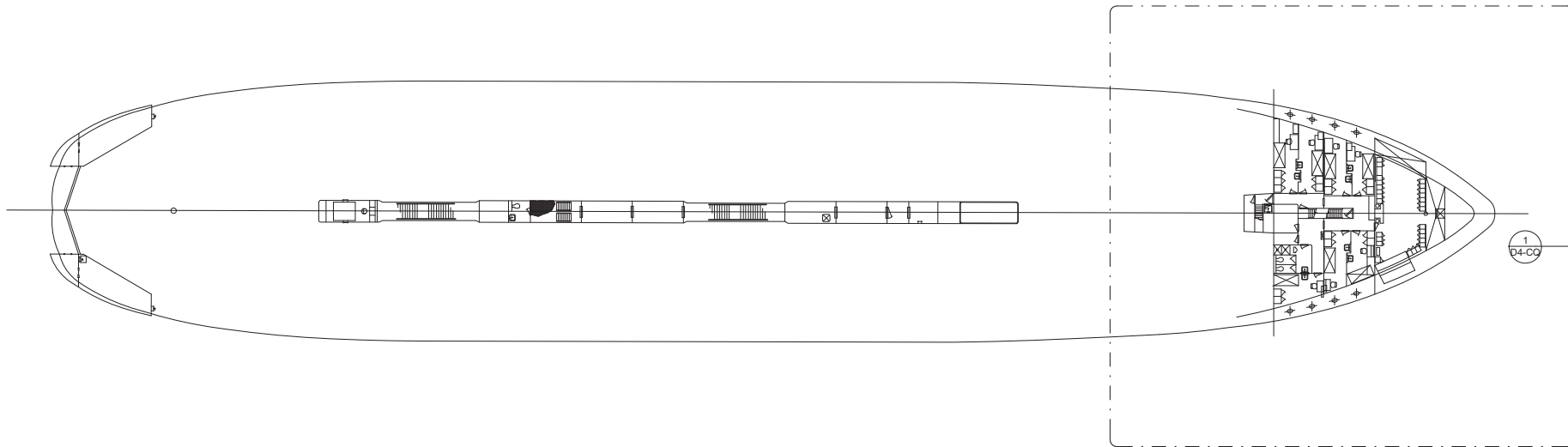
TITLE
**MV MATANUSKA
 MAIN DECK 3**

CLIENT
**DEPARTMENT OF
 TRANSPORTATION &
 PUBLIC FACILITIES**

DRAWN BY Godlove Ikegwuonu	CHECKED BY Anna Scheiner	DATE 12/1/23
SCALE (@ A1) NOT TO SCALE	PROJECT NUMBER 31225	
DRAWING NUMBER D3		REV



1310 E 66th Avenue, Suite 2
Anchorage, AK 99518



XX-XX → = SAMPLE POSITIVE
XX-XX → = SAMPLE NEGATIVE

PROJECT

DOT FERRY HBMS & MANAGEMENT PLAN

TITLE

MV MATANUSKA GALLERY DECK 4

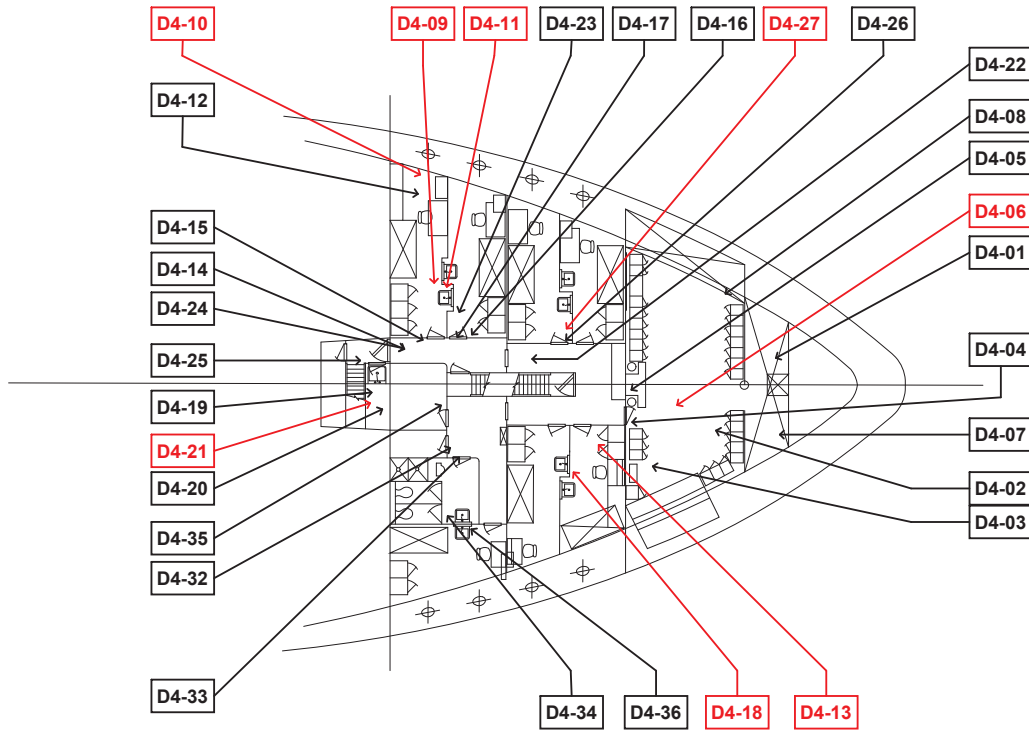
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DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES

DRAWN BY Godlove Ikegwuonu	CHECKED BY Anna Scheiner	DATE 12/1/23
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DRAWING NUMBER D4	REV	



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Anchorage, AK 99518



XX-XX → = SAMPLE POSITIVE
XX-XX → = SAMPLE NEGATIVE

PROJECT
DOT FERRY HBMS & MANAGEMENT PLAN

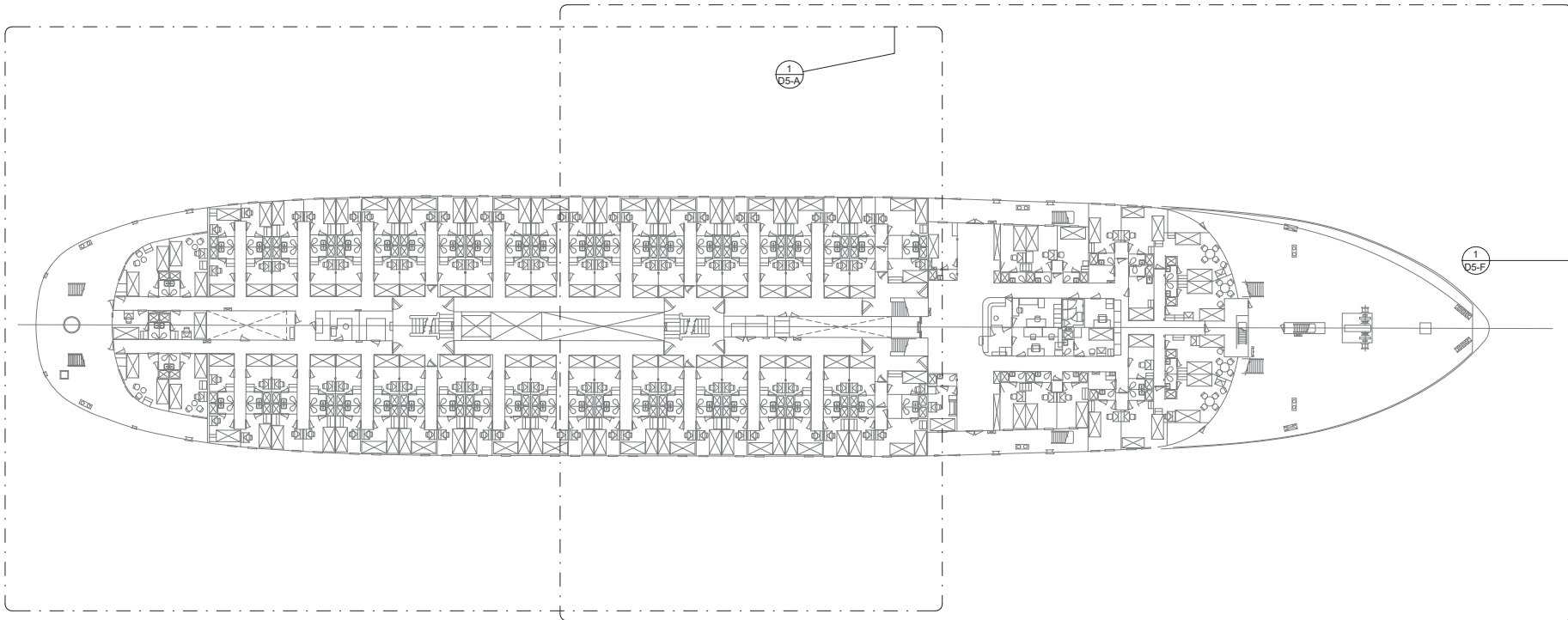
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**MV MATANUSKA
 GALLERY DECK 4 -
 CREW QUARTERS**

CLIENT
**DEPARTMENT OF
 TRANSPORTATION &
 PUBLIC FACILITIES**

DRAWN BY Godlove Ikegwuonu	CHECKED BY Anna Scheiner	DATE 12/1/23
SCALE (@ A1) NOT TO SCALE	PROJECT NUMBER 31225	
DRAWING NUMBER D4-CQ	REV	



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Anchorage, AK 99518



PROJECT

DOT FERRY HBMS & MANAGEMENT PLAN

TITLE

**MV MATANUSKA
CABIN DECK 5**

CLIENT

**DEPARTMENT OF
TRANSPORTATION &
PUBLIC FACILITIES**

DRAWN BY Godlove Ikegwuonu	CHECKED BY Anna Scheiner	DATE 12/1/23
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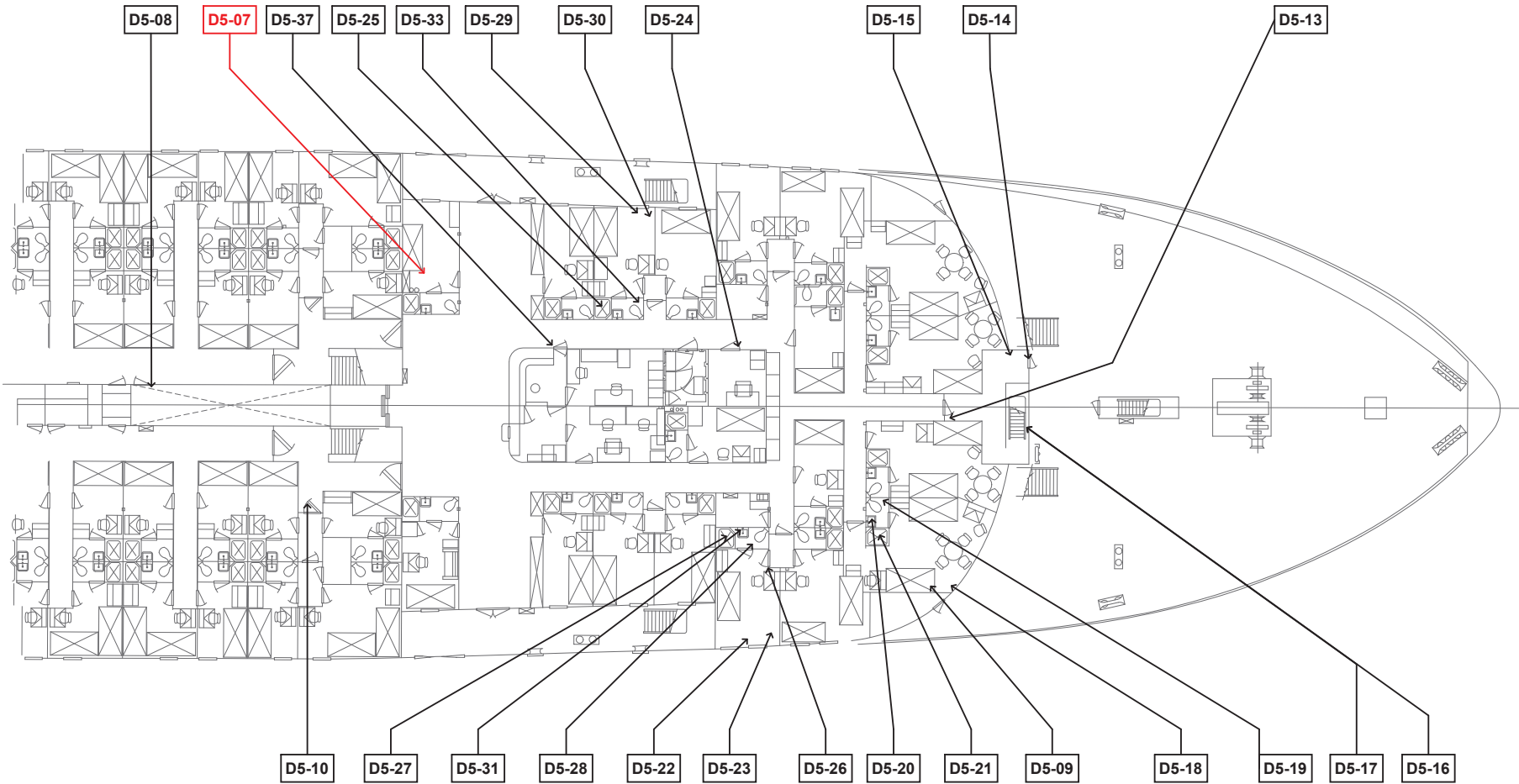
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XX-XX → = SAMPLE NEGATIVE



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Anchorage, AK 99518



XX-XX → = SAMPLE POSITIVE
XX-XX → = SAMPLE NEGATIVE

PROJECT
DOT FERRY HBMS & MANAGEMENT PLAN

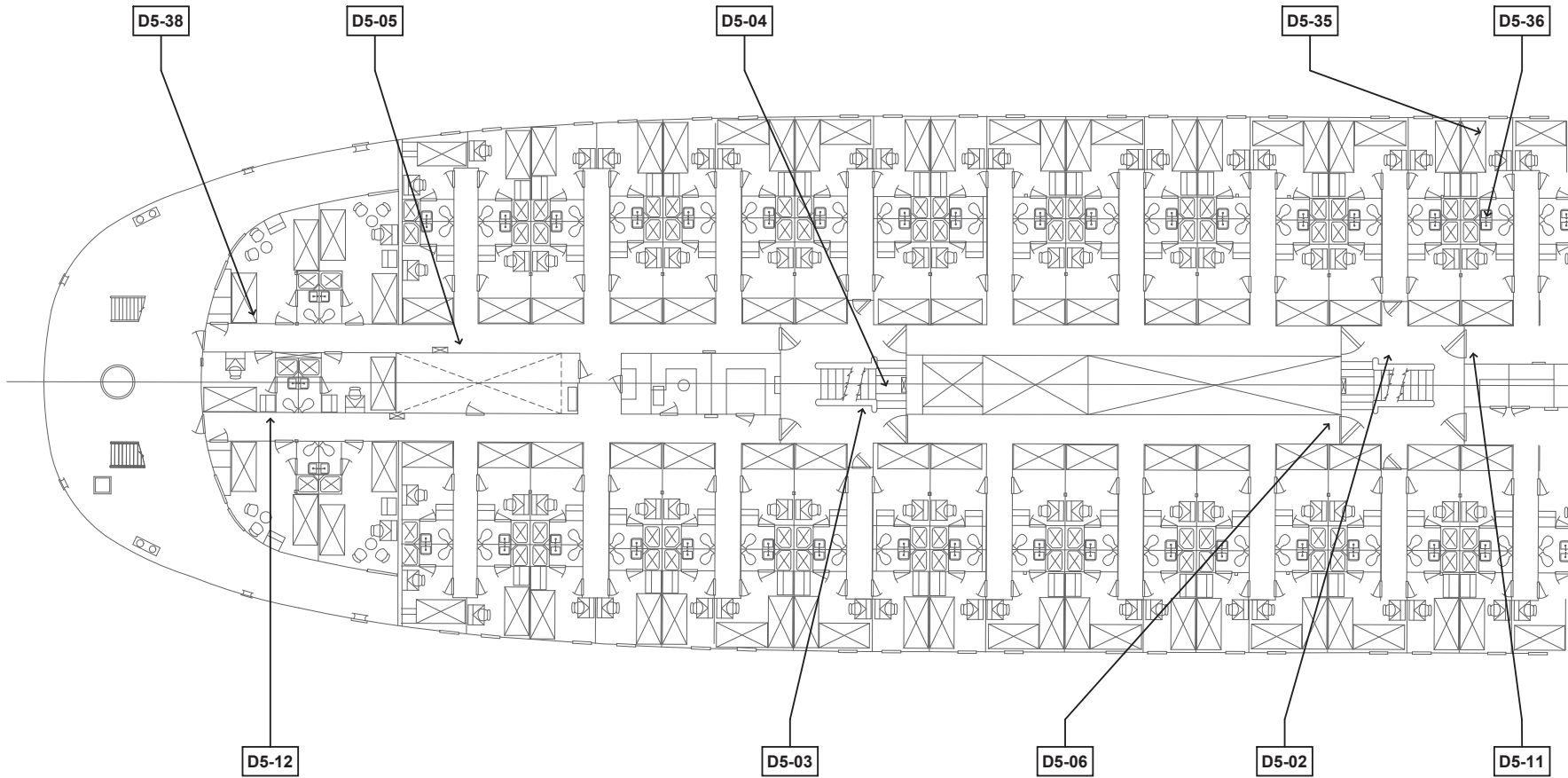
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MV MATANUSKA CABIN DECK 5 - FORWARD

CLIENT
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES

DRAWN BY Godlove Ikegwuonu	CHECKED BY Anna Scheiner	DATE 12/1/23
SCALE (@ A1) NOT TO SCALE	PROJECT NUMBER 31225	REV
DRAWING NUMBER D5-F		



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Anchorage, AK 99518



XX-XX → = SAMPLE POSITIVE
XX-XX → = SAMPLE NEGATIVE

PROJECT
DOT FERRY HBMS & MANAGEMENT PLAN

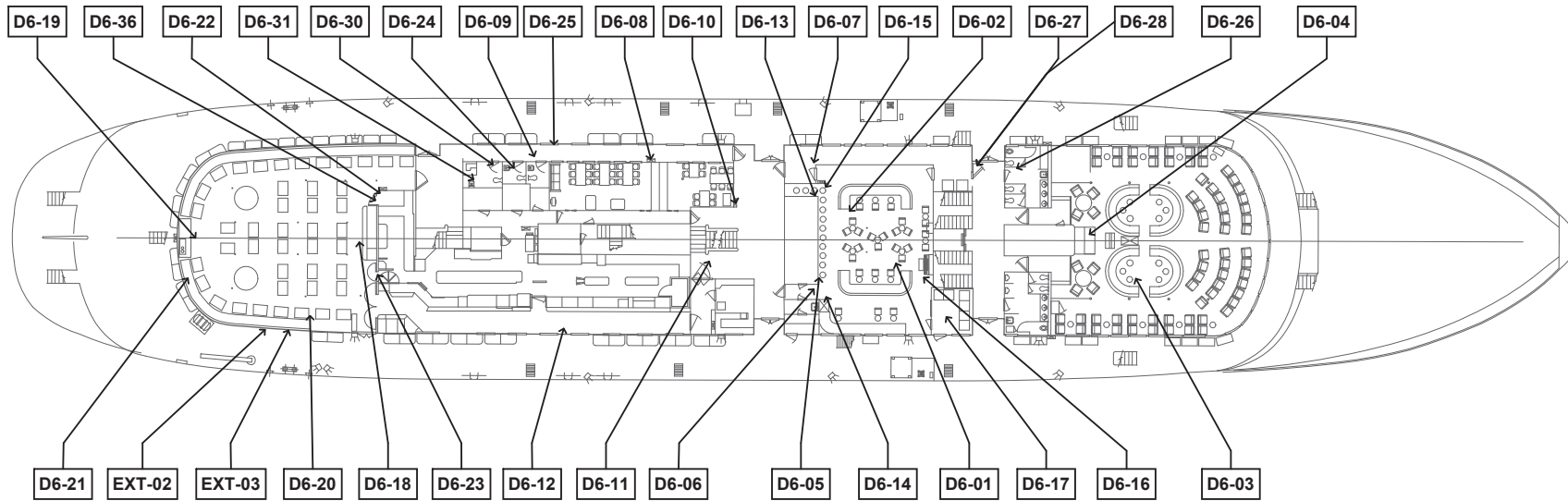
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MV MATANUSKA CABIN DECK 5 - AFT

CLIENT
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES

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SCALE (@ A1) NOT TO SCALE	PROJECT NUMBER 31225	
DRAWING NUMBER D5-A	REV	



1310 E 66th Avenue, Suite 2
Anchorage, AK 99518



PROJECT
DOT FERRY HBMS & MANAGEMENT PLAN

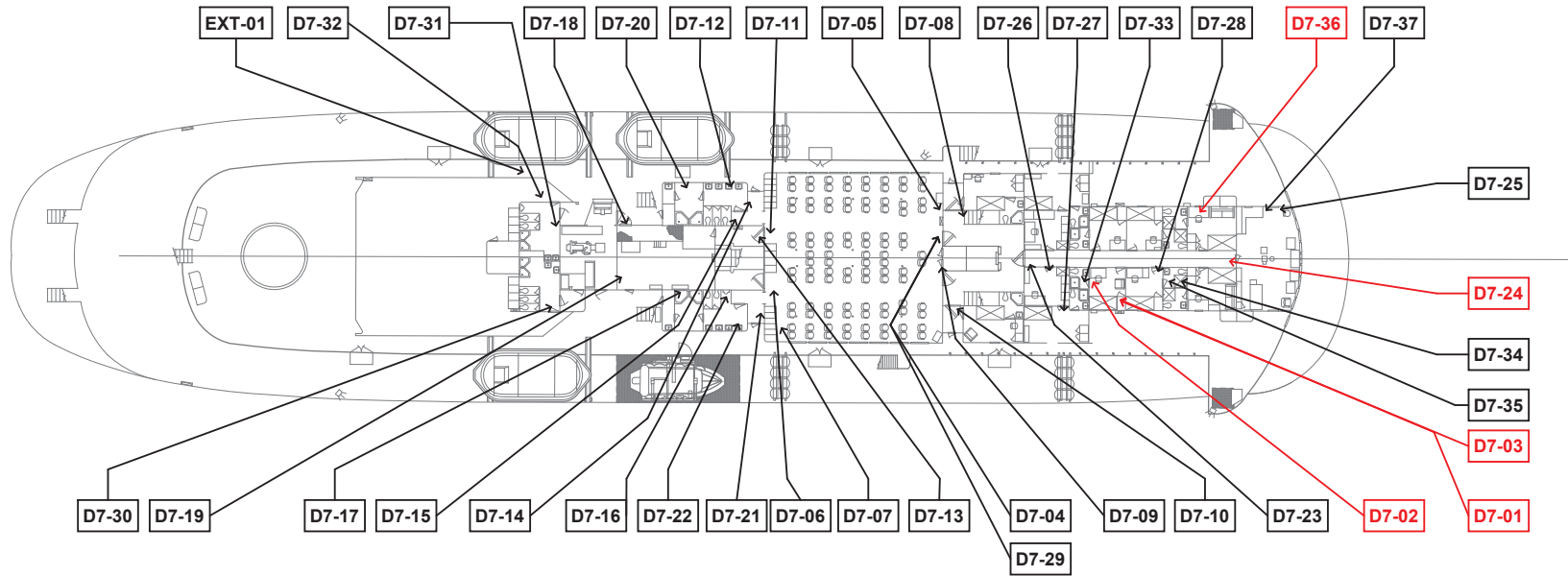
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BOAT DECK 6**

CLIENT
**DEPARTMENT OF
TRANSPORTATION &
PUBLIC FACILITIES**

DRAWN BY Godlove Ikegwuonu	CHECKED BY Anna Scheiner	DATE 12/1/23
SCALE (@ A1) NOT TO SCALE	PROJECT NUMBER 31225	
DRAWING NUMBER D6	REV	



1310 E 66th Avenue, Suite 2
Anchorage, AK 99518



XX-XX → = SAMPLE POSITIVE
XX-XX → = SAMPLE NEGATIVE

PROJECT
DOT FERRY HBMS & MANAGEMENT PLAN

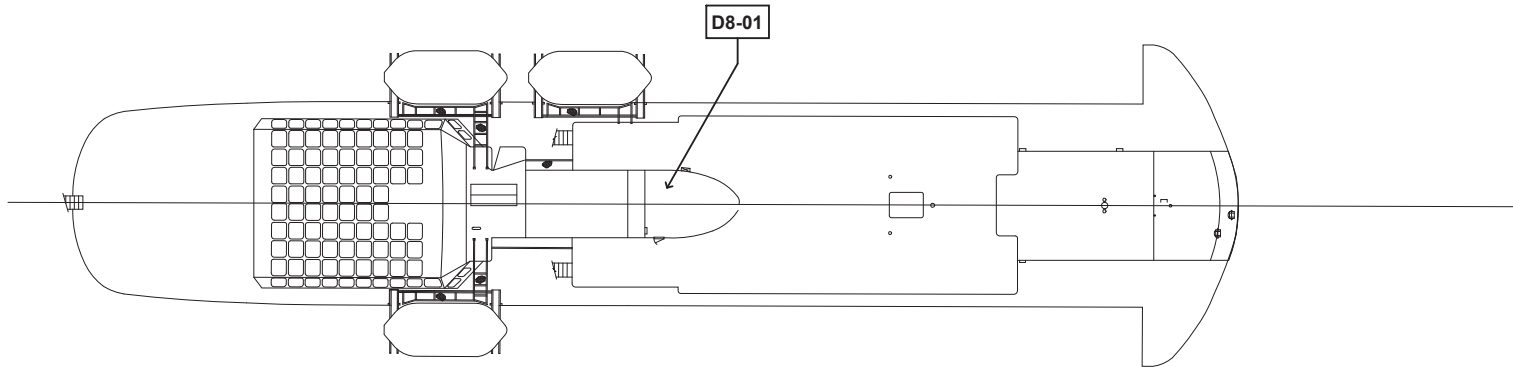
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MV MATANUSKA BRIDGE DECK 7

CLIENT
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES

DRAWN BY Godlove Ikegwuonu	CHECKED BY Anna Scheiner	DATE 12/1/23
SCALE (@ A1) NOT TO SCALE	PROJECT NUMBER 31225	
DRAWING NUMBER D7		REV



1310 E 66th Avenue, Suite 2
Anchorage, AK 99518



XX-XX → = SAMPLE POSITIVE
XX-XX → = SAMPLE NEGATIVE

PROJECT
**DOT FERRY HBMS &
MANAGEMENT PLAN**

TITLE
**MV MATANUSKA
HOUSE TOP DECK 8**

CLIENT
**DEPARTMENT OF
TRANSPORTATION &
PUBLIC FACILITIES**

DRAWN BY Godlove Ikegwuonu	CHECKED BY Anna Scheiner	DATE 12/1/23
SCALE (@ A1) NOT TO SCALE	PROJECT NUMBER 31225	
DRAWING NUMBER D8		REV

APPENDIX C

Inspector Certifications



State of Hawai'i Asbestos Certification

Training Course Exp. Dates

W	n/a	MP	n/a
CS	n/a	PD	n/a
INS	01/12/24	PM	n/a

W= Worker
 CS= Cont./Sup.
 INS= Inspector
 PD= Project Designer
 MP= Mgmt. Planner
 PM= Project Monitor

Scheiner

Anna M.

EnviroServices & Training Center, LLC

HIASB-5286

State Exp. Date 01/17/2024

If found, please return to:
 State of Hawaii
 Department of Health
 Indoor and Rad Health Branch
 99-945 Halawa Valley Street
 Aiea, HI 96701
 (808) 586-5800



Postage is guaranteed



1310 E 66th Avenue, Suite 2- Anchorage, AK 99518 - 907.332.0456

Certificate of Training

This is to certify that

Anna Scheiner

Has Attended and Successfully Completed

**HAZWOPER 40 Hr
40 Hour Course**

In Compliance with OSHA 29 CFR 1910.120 Standard and EPA 40 CFR.

Certificate Number: TH40-823-18500

Expiration Date: 8/11/2024

A handwritten signature in cursive script, appearing to read 'Alan M Caldwell', is written over a horizontal line.

*Alan Caldwell
Principal Instructor*

8/11/2023

Exam Date:

8/7/2023

Course Date:



1310 E 66th Avenue, Suite 2- Anchorage, AK 99518 - 907.332.0456

Certificate of Training

This is to certify that

Jasmine Brown

Has Attended and Successfully Completed
**Building Inspector Refresher
4 Hour Course**



This course is fully accredited by the Alabama Department of Environmental Management (ADEM) in compliance with TSCA Title II.

Certificate Number: TBI4-223-17727

Expiration Date: 2/28/2024

Alan Caldwell
Training Division Manager

2/28/2023

Exam Date:

2/28/2023

Course Date:



1310 E 66th Avenue, Suite 2- Anchorage, AK 99518 - 907.332.0456

Certificate of Training

This is to certify that

Jasmine Brown

Has Attended and Successfully Completed
HAZWOPER Refresher
8 Hour Course

In Compliance with OSHA 29 CFR 1910.120 Standard and EPA 40 CFR.

Certificate Number: TH8-1222-18415

Expiration Date: 12/21/2023

A handwritten signature in black ink, appearing to read 'Alan M. Caldwell', is written over a horizontal line.

Alan Caldwell
Training Division Manager

12/21/2022

Exam Date:

12/21/2022

Course Date:

APPENDIX D

Site Photographs



Satori Group, Inc.

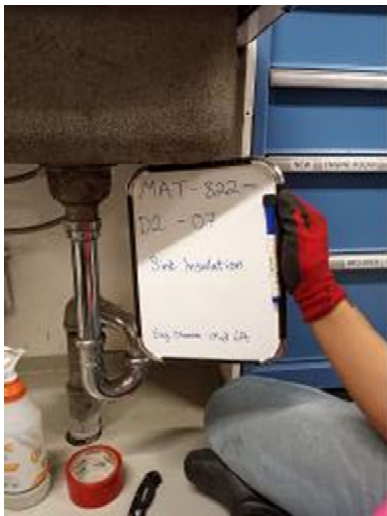


Sample #	Date	Time	Location
Mat-822-D1-06	8.22.23	9:01	Hold Deck 1—MSD Room—Forward Starboard

Sample #	Date	Time	Location
Mat-822-D1-12	8.22.23	13:37	Hold Deck 1—Shaft Alley—Forward Port

Description of Photo: Picture of sample location for bulk sample Mat-822-D1-06, Black Packing from large silver wire

Description of Photo: Picture of sample location for bulk sample Mat-822-D1-12, Gray TSI Linear



Sample #	Date	Time	Location
Mat-822-D2-07	8.22.23	10:42	Second Deck 2—Engineer Stores—Mid Aft

Sample #	Date	Time	Location
Mat-823-D2-16	8.23.23	9:27	Second Deck 2—Forward Quarters Elevator Machine Room

Description of Photo: Picture of sample location for bulk sample Mat-822-D2-07, Gray Sink Insulation

Description of Photo: Picture of sample location for bulk sample Mat-823-D2-16, Black Packing from steel mesh wire



Satori Group, Inc.



Sample #	Date	Time	Location
Mat-823-D2-20	8.23.23	9:50	Second Deck 2—Steward Stateroom 7—Starboard Aft

Description of Photo: Picture of sample location for bulk sample Mat-823-D2-20, Brown Adhesive from previously removed baseboard outside of Stateroom 7

Sample #	Date	Time	Location
Mat-823-D2-21	8.23.23	9:53	Second Deck 2—Outside of Fan Room No. 3—Forward Starboard

Description of Photo: Picture of sample location for bulk sample Mat-823-D2-21, Brown Adhesive from previously removed baseboard forward of Fan Room No. 3



Sample #	Date	Time	Location
Mat-823-D4-06	8.23.23	12:08	Gallery Deck 4—Bosun Stores—Starboard

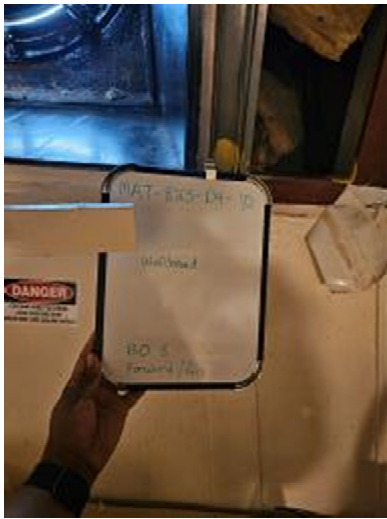
Description of Photo: Picture of sample location for bulk sample Mat-823-D4-06, Black Packing on incandescent light fixture

Sample #	Date	Time	Location
Mat-823-D4-09	8.23.23	12:25	Gallery Deck 4—Crew Stateroom BO 8—Forward

Description of Photo: Picture of sample location for bulk sample Mat-823-D4-09, Gray 9" x 9" Floor Tile and Black Mastic



Satori Group, Inc.

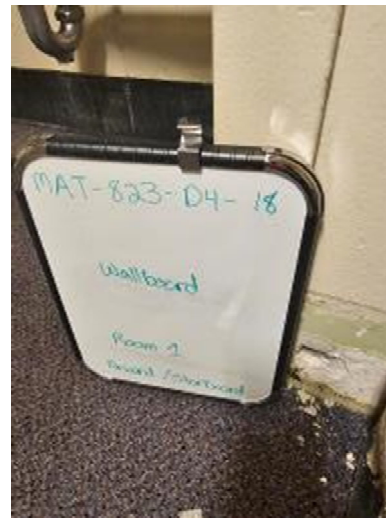


Sample #	Date	Time	Location
Mat-823-D4-10	8.23.23	12:33	Gallery Deck 4—Crew Stateroom BO 8—Forward Port

Description of Photo: Picture of sample location for bulk sample Mat-823-D4-10, Gray Wallboard

Sample #	Date	Time	Location
Mat-823-D4-11	8.23.23	13:49	Gallery Deck 4—Crew Stateroom BO 8—Forward Port

Description of Photo: Picture of sample location for bulk sample Mat-823-D4-11, Gray Wallboard



Sample #	Date	Time	Location
Mat-823-D4-13	8.23.23	14:14	Gallery Deck 4—Crew Stateroom 1—Forward Starboard

Description of Photo: Picture of sample location for bulk sample Mat-823-D4-13, Gray Floor Tile and Black Mastic beneath two layers of carpet

Sample #	Date	Time	Location
Mat-823-D4-18	8.23.23	14:22	Gallery Deck 4—Crew Stateroom 1—Forward Starboard

Description of Photo: Picture of sample location for bulk sample Mat-823-D4-18, Gray/Beige Wallboard



Satori Group, Inc.



Sample #	Date	Time	Location
Mat-823-D4-21	8.23.23	14:58	Gallery Deck 4—Cleaning Gear Locker—Above Sink

Description of Photo: Picture of sample location for bulk sample Mat-823-D4-21, Gray TSI Elbow

Sample #	Date	Time	Location
Mat-823-D4-27	8.23.23	15:18	Gallery Deck 4—Crew Stateroom Jr. Engineer—Forward Port Corner

Description of Photo: Picture of sample location for bulk sample Mat-823-D4-27, Gray/White/Green 9" x 9" Floor Tile and Black Mastic beneath carpet



Sample #	Date	Time	Location
Mat-824-D5-07	8.24.23	11:25	Cabin Deck 5—First Aid Room

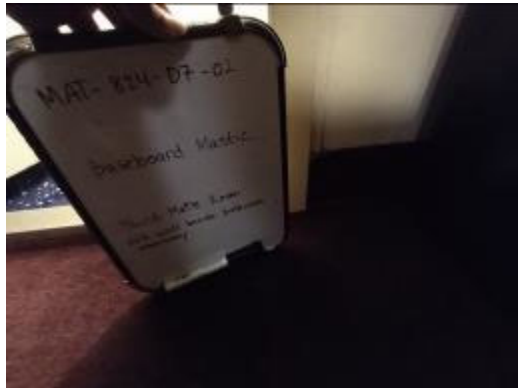
Description of Photo: Picture of sample location for bulk sample Mat-824-D6-07, Tan Laminate Flooring

Sample #	Date	Time	Location
Mat-824-D7-01	8.24.23	18:21	Bridge Deck 7—Third Mate Stateroom Closet

Description of Photo: Picture of sample location for bulk sample Mat-824-D7-01, Brown Mastic from baseboard



Satori Group, Inc.

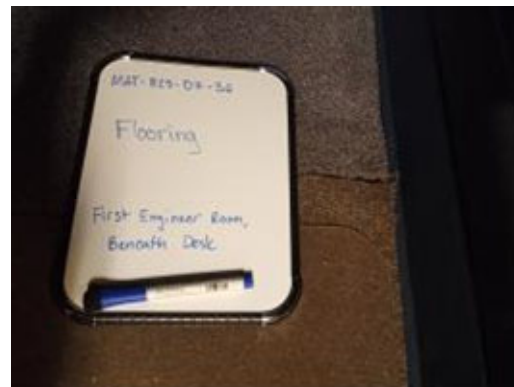


Sample #	Date	Time	Location
Mat-824-D7-02	8.24.23	18:33	Bridge Deck 7—Third Mate Stateroom—Right Side of Restroom Entrance

Sample #	Date	Time	Location
Mat-824-D7-03	8.24.23	18:23	Bridge Deck 7—Third Mate Stateroom Closet

Description of Photo: Picture of sample location of bulk sample Mat-824-D7-02, Brown Mastic from baseboard

Description of Photo: Picture of sample location of bulk sample Mat-824-D7-03, Tan Floor Tile and Black Mastic beneath carpet



Sample #	Date	Time	Location
Mat-825-D7-24	8.25.23	8:38	Bridge Deck 7—Officer's Quarters Hallway—Forward Starboard

Sample #	Date	Time	Location
Mat-825-D7-36	8.25.23	9:45	Bridge Deck 7—First Engineer Stateroom—Port

Description of Photo: Picture of sample location for bulk sample Mat-825-D7-24, Pink Floor Tile and Black Mastic beneath carpet

Description of Photo: Picture of sample location for bulk sample Mat-825-D7-36, Pink Floor Tile and Black Mastic beneath carpet