

ADDENDUM No. 4

Project Name: **TOWN OF HILTON HEAD ISLAND
REQUEST FOR PROPOSALS
RFP 2016-0015 FIRE STATION TWO**

Date: June 23, 2016

From: Rosenblum Coe Architects, Inc.
1643 Means St.
Charleston, SC 29412
843.577.6073 (p)

To: **All Plan Holders of Record**

This Addendum forms a part of the Contract Documents and modifies the original Bidding Documents (Drawings and Project Manual) dated January 28, 2016, Addendum No. 1 issued May 31, 2016, Addendum 2 issued June 3, 2016, and Addendum 3 issued June 6, 2016 . Acknowledge receipt of this Addendum in the space provided on the Proposal Form. Failure to do so may subject the Bidder to disqualification. Only the information contained in this Addendum shall be considered as a part of the Bid Documents. This Addendum consists of **2** pages and **2** attachments, for a total of **47** pages.

I. GENERAL:

1. See attached meeting minutes from Pre-Proposal Conference, held June 16, 2016 at 11:00am.

II. SPECIFICATIONS:

1. Reference RFP, page 4 of 4: Technical Questions, change to read: "All technical questions during the proposal phase must be submitted in writing and emailed to Julian Walls, Town of Hilton Head Facilities Manager, Email: julianw@hiltonheadislandsc.gov

Note: It is the questioner's responsibility to confirm that questions have been received by the Town via email or fax. "

2. Reference Proposal Form for Project, page 5 of 6: Note, Item No. 3, change to read: "The Proposal may be rejected if a completed Schedule of Values form is not submitted by **1:00pm on July 21, 2016** at One Town Center Court, Hilton Head Island, SC 29928-2701."
3. Reference Proposal Form for Project, page 1: Replace any instance where it reads, "RFP 2016-0000 FIRE STATION # 6" with RFP 2016-0015 FIRE STATION # 2.
4. Section 014000, Report of Special Inspections: change to read "This statement of Special Inspections attached is submitted as a condition for permit issuance in accordance with Section 1704 of the 2012 International Building Code." Also, change to read, "A Final Report of Special Inspections shall be submitted by the design professional in responsible charge to the building official at the conclusion of the project and before a certificate of occupancy will be issued."
5. Section 224500-3.11.A, Fuel Gas Systems, change to read, "Inspection and testing of the LP gas system shall be performed per the 2012 edition of the International Fuel Gas Code, section 406, and as noted herein. Test LP gas system piping by capping openings and applying an air pressure of 100 psig for 2 hours without any leaks. Disconnect the air source prior to and during testing. Where the system is tested in sections, each section shall be subjected to the same test."

III. QUESTIONS FROM PROSPECTIVE BIDDERS(with responses from design team in BOLD):

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1. Should the cost for Builders Risk be included in the G.C.'s bid? **Yes.**
2. The concrete drives and walks on the civil plans call for 3,500 and 5,000 psi concrete. The typical callout for this would be 3,000 and 4,000. Are you sure we need 5,000 psi concrete? **Follow requirements in Contract Documents.**
3. Should the cost of relocating and installing a new 2.5 inch water meter be included in the G.C.'s bid? **All costs associated with relocating the water meter shall be part of the Contractor's responsibility.**
4. The depth of the specified dry wells will below the water table at certain times of the year. Has this been taken into account in storage calculations? **Yes.**
5. Will the G.C. be required to pay for a Town Building Permit or a Sea Pines ARB Building permit? **No fees will be required for a HHI Building Permit or a Sea Pines ARB Building Permit.**
6. Will the G.C. be required to pay for the special inspections? **No.**
7. Will the G.C. be required to pay for materials testing such as: concrete cylinder breaks, compaction, etc.? **Initial tests will be paid by the Town. Any tests that fail and require additional testing will be the Contractor's responsibility.**
8. Has the existing building been tested for asbestos containing materials? **Yes.** If present who is paying for the abatement? **None required, see attached report from GHD.**
9. Geotechnical Report calls for surcharging the site with fill dirt a minimum of 30 days prior to construction. Will this be required? **Follow requirements of Contract Documents.**
10. Will the cost of dewatering be pay for as an unforeseen condition or is this to be included in the G.C.'s bid? **Dewatering is considered incidental to other items of work, in regards to civil work. Dewatering costs are the sole responsibility of the Contractor.**
11. There are bent or welded plates shown as part of the required roll door structure. See details A612. There are 6 total roll top doors. 2 details showing Jamb at brick siding and jamb at brick veneer (look pretty much the same with either rowlock or veneer). There are also 3 other details that are similar but not the same. H7 shows rear. Is this detail the same for all rear doors only? **Yes.**

Are these plates continuous across the entire building or just at the door openings? **Steel plates are intended to encase overhead and 4-Fold door openings.**

Looks like the horizontal 6 x 6 tube attaches to them with hardware. Can that attachment be field welded instead?

Horizontal 6 x 6 tubes are part of the 4-Fold door assembly. These tubes must be attached per manufacturer recommendation and details.

51200 E refers to the "S" sheets. Can you steer me to a detail?? **See "S" sheets.**

12. Spec 055113 Section 2.8 specifies post production galvanizing for the pan stairs in apparatus bay. Very expensive and unnecessary. Is red iron shop coat sufficient for all interior metal fabrications? **No. Pan stairs will be galvanized as shown in Contract Documents.**
13. Are all exterior windows and app bay doors using cast lintels or bond beams instead of steel angle lintels. All details page a611 show masonry lintels. I don't see any steel lintels anywhere. The last fire station used them especially over the app bay interior wall doors. **Masonry lintels are to be provided as shown in Contract Documents.**

Attachments:

Pre-Proposal Conference Memo, dated June 16, 2016, 4 pages.

Asbestos Containing Materials Report, prepared by GHD Services Inc., dated March 24, 2016, 41 pages.

*****End of Addendum*****

Addendum No. 4

TOWN OF HILTON HEAD ISLAND

REQUEST FOR PROPOSALS

RFP 2016-0015 FIRE STATION TWO

June 23, 2016

Page 2 of 2



Memorandum of a Meeting

121 Wentworth Street
Charleston, SC 29401
843/577-6073.p 843/722-1659 f.
www.rosenblumcoe.com
E-mail:jhudson@rosenblumcoe.com

Project: HHI FS No. 2

Project No.: 14638

Date of Meeting: Thursday, June 16, 2016

Re: Pre-Proposal Mtg

Attendees: see attached sign-in sheet

Copies to:	<input type="checkbox"/> MEP Eng	<input type="checkbox"/> Contractor
<input type="checkbox"/> Via Fax	<input checked="" type="checkbox"/> RCA File	<input type="checkbox"/> Struct Eng
<input checked="" type="checkbox"/> Via Email	<input type="checkbox"/> Correspondent	<input type="checkbox"/> Civil Eng
		<input type="checkbox"/> Owner
		<input type="checkbox"/> Other

The following items were discussed at this meeting:

Items of Discussion:

The purpose of this meeting was to explain the project to prospective bidders.

1. Tom Fultz reviewed RFP 2016-0015 Fire Station Two written by the Town of HHI.
2. Tom Fultz stated Contractor will be required to provide a schedule of values 7 days after proposals are due.
3. Steve Coe reviewed the scope of the project and the following:
 - a. How to obtain drawings
 - b. No Addenda will be issued later than 4 days prior to the receipt of bids.
 - c. Proposal Bond, Performance Bond, & Payment Bond required to be provided by Contractor
 - d. Request for substitutions need to be submitted prior to the receipt of bids. RCA will issue a last date for substitutions in a future addendum.
 - e. Bids shall be received per the information provided in RFP 2016-0015.
4. Technical questions from Bidders will be submitted to Julian Walls, julianw@hiltonheadisland.gov and Julian will transmit to RCA. RCA to include in future addendum.
5. Jarret Hudson stated that the drawings and specs are treated as a whole and not mutually exclusive. Steve Coe said if there is a discrepancy between the two, the more stringent of the two will govern.
6. The meeting was then opened to a question and response portion.

Attachments:

Sign-in sheet from Pre-Proposal Mtg, 3 pages.

---End of Meeting----

Please notify us of any errors or discrepancies.

Town of Hilton Head Island
 Fire Station #2
 RFP 2016-0015
 Pre Bid List

# 1 Company:	Person:
CMERRILL CONSTRUCTION	FRITS/ZANK
Address:	Title:
HWY 301 STATESBORO GA	CITY CLERK
	[REDACTED]
	[REDACTED]
Email Address:	[REDACTED]

# 2 Company:	Person:
CREATIVE STRUCTURES INC	BOB SLACK
Address:	Title:
3208 TAZEWELL PIKE	CEO
KNOX TN 37918	Phone:
	[REDACTED]
	[REDACTED]
Email Address:	[REDACTED]

# 3 Company:	Person:
PAUL S. AKINS COMPANY INC	JOSEPH AKINS
Address:	Title:
P.O. BOX 941	VP
STATESBORO, GA 30459	Phone:
	[REDACTED]
	[REDACTED]
Email Address:	[REDACTED]

# 4 Company:	Person:
ROSENBLUM COE ARCHITECTS	STEVE COE
Address:	Title:
1643 MEANS ST.	PRESIDENT
CHARLESTON, SC 29412	Phone:
	[REDACTED]
	[REDACTED]
Email Address:	[REDACTED]

# 5 Company:	ROSENBLUM COE ARCHITECTS	Person:	JARRET HUDSON
Address:	1643 MEANS ST.	Title:	SENIOR ARCHITECTURAL INTERIOR
	CHARLESTON, SC 29412		
Email	[REDACTED]		

# 6	Fraser Construction Company LLC	Person:	Joe Fraser
Address:	P.O. Box 2600	Title:	Pres.
	Bluffton, SC 29910	Phone:	843-815-4747
Email	[REDACTED]	Fax:	843-815-4748

# 7 Company:	ROEBUCK BUILDINGS	Person:	JOHN PRICE
Address:	3600 S. CHURCH ST EXT	Title:	NO BUS. DEV
	Bluffton ROEBUCK, SC 29376		
Email Address	[REDACTED]		

# 8 Company:	Cleland Site Prep Inc.	Person:	Carlos Sanchez
Address:	P.O. Box 3820 Bluffton S.C.	Title:	Estimator
Email Address	[REDACTED]		

# 9 Company:	Person:
NIX CONSTRUCTION Co. Inc.	JOE NIX
Address:	Title:
SUITE 203, PROFESSIONAL Bld.	PRESIDENT
P.O. Box 7667 HILTON HEAD IS. SC. 29938	
Email Add: [REDACTED]	

# 10 Company:	Person:
Address:	Title:
	Phone:
Email Address:	Fax:

# 11 Company:	Person:
Address:	Title:
	Phone:
Email Address:	Fax:

# 12 Company:	Person:
Address:	Title:
	Phone:
Email Address:	Fax:



Asbestos Containing Materials Report

Fire Station #2

65 Lighthouse Road

Hilton Head Island, South Carolina

Prepared for: Town of Hilton Head Island

57-C Sheridan Park Circle Bluffton South Carolina 29910 USA

090320 | 32 | Report No 32 | March 24, 2016

March 24, 2016

Reference No. 090320-32

Mr. Julian Walls
Town of Hilton Head Island
One Town Center Court
Hilton Head Island, South Carolina 29928

Via Electronic Mail

Dear Mr. Walls:

Re: Asbestos Building Assessment Report
Fire Station No. 2
65 Lighthouse Road
Hilton Head Island, Beaufort County, South Carolina

This assessment, prepared by **GHD Services Inc** summarizes our site visit at the above-referenced location conducted on March 8, 2016. The purpose of this assessment was to identify asbestos containing materials (ACM's) that will be affected during the planned demolition at the above referenced site. Our inspection resulted in the identification of seventeen (17) homogeneous areas with suspect asbestos-containing materials. Representative samples of the materials were collected and analyzed by Polarized Light Microscopy (PLM) and Transmission Electron Microscopy (TEM), where applicable. The laboratory analyses indicated the absence of asbestos containing materials in the samples tested. The attached report summarizes our understanding of the project information, the results of our field and laboratory work, and conclusions.

Please contact us at (843) 815-5120 if you have any questions.

Sincerely,

GHD



Christopher Jones

SC DHEC # BI-00495



Sean M. McCubbins, LEED® AP

Executive Summary

The intent of our assessment was to identify suspected ACM associated with the structure known as Fire Station No. 2 located at 65 Lighthouse Road, Hilton Head Island, Beaufort County, South Carolina. Representative bulk samples of each suspect ACM were collected in general accordance with the protocol required by EPA 40 CFR, Part 61, (NESHAP). The asbestos samples were submitted to a NVLAP accredited laboratory (#200664-0) for analysis using polarized light microscopy (PLM) by method EPA/600/M4-82/020 and Transmission Electron Microscopy (TEM) Chatfield, where applicable.

Our fieldwork identified seventeen (17) homogenous areas (HAs) of material in the proposed demolition area that were classified as *miscellaneous* and *surfacing* materials. The sampled materials consisted of two layers of vinyl floor tile (VFT) and associated mastic (≈ 230 ft²; 3 samples each), drywall walls and associated joint compound ($\approx 2,775$ ft²; 5 samples), drywall ceiling and associated joint compound ($\approx 2,875$ ft²; 5 samples), ceiling tile 1 ($\approx 2,000$ ft²; 3 samples), ceiling tile 2 (≈ 175 ft²; 3 samples), wall covering and associated mastic ($\approx 2,675$ ft²; 5 samples), carpet mastic ($\approx 1,100$ ft²; 5 samples), duct mastic (≈ 100 ft²; 3 samples), roof insulation ($\approx 2,300$ ft²; 3 samples), roof sealant (≈ 100 ft²; 3 samples), stucco ($\approx 3,000$ ft²; 5 samples), shingles ($\approx 2,775$ ft²; 3 samples), and roof paper ($\approx 2,775$ ft²; 3 samples).

Asbestos was not detected in any of the suspect ACMs sampled during this assessment.

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Attachment B Laboratory Results

Attachment C Qualifications

1. Introduction

GHD conducted an assessment at the structure known as Fire Station No. 2 located at 65 Lighthouse Road, Hilton Head Island, Beaufort County, South Carolina which included assessment, sampling and analysis of suspect ACM's. The purpose of the assessment was to identify ACM's that will be affected during the planned demolition at the site. Mr. Christopher Jones, certified asbestos building inspector, conducted this survey. All site survey work was completed on March 8, 2016.

2. Site Description

The site is located at 65 Lighthouse Road, Hilton Head Island, Beaufort County, South Carolina. According to the Beaufort County Tax assessor's website (www.bcgov.net) the property is identified as Parcel ID No. R550-017-000-1106-0000. The property consists of an approximately 5,050 square foot structure currently utilized as a Hilton Head Fire & Rescue Station No. 2. The exterior of the structure generally consisted of concrete masonry unit (CMU) walls with a painted stucco finish and a combination of a heat-sealed membrane flat roofing system and an asphalt shingle roofing system. Interior finishes consisted of ceramic tile, carpeted and VFT flooring, painted drywall and wood covered walls, and painted drywall and acoustical ceiling tile ceilings. A sketch detailing the overall layout of the planned demolition area, as well as locations of our samples and site photographs, is attached as **Figure 1**.

3. Asbestos Methods and Procedures

The EPA regulations require the inspector to categorize suspected asbestos containing building materials into homogenous areas, meaning those which are similar in age, appearance, color and texture. Once the various homogeneous areas are delineated, the material is categorized by the following types: surfacing (S), thermal system insulation (TSI), or miscellaneous (Misc). Dependent on the material type, the EPA dictates a minimum number of samples as follows: surfacing material greater than 5,000 ft² requires a minimum of 7 samples, greater than 1,000 ft² but less than 5,000 ft² requires at least 5 samples and less than 1,000 ft² requires at least 3 samples, thermal system insulation requires either 3 samples or that number sufficient to determine whether the material is or is not ACM; miscellaneous materials require at least that number of samples sufficient to determine whether the material is or is not ACM. As noted, these numbers are a minimum and it is the responsibility of the inspector to obtain a number of samples to adequately represent the material in question.

Our fieldwork identified a total of seventeen (17) HAs of material classified as *miscellaneous* and *surfacing*. The materials included consisted of two layers of vinyl floor tile (VFT) and associated mastic (≈230 ft²), drywall walls and associated joint compound (≈2,775 ft²), drywall ceiling and associated joint compound (≈2,875 ft²), ceiling tile 1 (≈2,000 ft²), ceiling tile 2 (≈175 ft²), wall covering and associated mastic (≈2,675 ft²), carpet mastic (≈1,100 ft²), duct mastic (≈100 ft²), roof insulation (≈2,300 ft²), roof sealant (≈100 ft²), stucco (≈3,000 ft²), shingles (≈2,775 ft²), and roof paper (≈2,775 ft²). Representative bulk samples of each suspect ACM were collected in general accordance with the protocol required by EPA 40 CFR, Part 61, (NESHAP). The samples were submitted to an NVLAP accredited laboratory (#200664-0) for analysis using PLM by method EPA/600/M4-82/020 and TEM Chatfield where applicable. A sketch detailing the locations where samples were collected

is attached as **Figure 1**. Select photographs taken during our inspection are included as **Attachment A**.

4. Asbestos Survey Results

4.1 PLM and TEM Results

A total seventy-five (75) suspect ACM bulk samples were collected from the structure and analyzed by PLM. Asbestos was not detected in any of the samples analyzed by PLM. As required by the State of South Carolina, one (1) sample of each organically bound homogenous material was analyzed by TEM Chatfield (eleven samples analyzed). Asbestos was not detected in any of the samples analyzed by TEM Chatfield. The sample results have been tabulated and categorized into homogeneous materials in **Tables 1** and **2**. Copies of the laboratory reports are provided in **Attachment B**.

5. Limitations

Conclusions presented in this limited bulk asbestos survey are based on client information provided, materials identified at the time of survey and laboratory results. This report is not intended to be used or relied upon in connection with other demolition and/or renovation projects or by other undesignated third parties.

Attachments

Tables



Table 1
Asbestos Sample Results (PLM)

Fire Station #2
65 Lighthouse Road, Hilton Head Island, South Carolina
GHD Reference No. 090320-32

HA	Sample #	Material Type/Description	Cat.	Quantity (ft ²)*	Type	Condition	Lab Results	Comments
1	32-01 - A	Drywall Wall and Joint Compound	F	2,775	Surfacing	Good	None Detected	drywall
2	32-01 - B	Drywall Wall and Joint Compound	F	2,775	Surfacing	Good	None Detected	joint compound
1	32-02	Drywall Wall and Joint Compound	F	2,775	Surfacing	Good	None Detected	drywall only
2	32-02B	Joint Compound	F	2,775	Surfacing	Good	None Detected	joint compound
1	32-03 - A	Drywall Wall and Joint Compound	F	2,775	Surfacing	Good	None Detected	drywall
2	32-03 - B	Drywall Wall and Joint Compound	F	2,775	Surfacing	Good	None Detected	joint compound
1	32-04 - A	Drywall Wall and Joint Compound	F	2,775	Surfacing	Good	None Detected	drywall
2	32-04 - B	Drywall Wall and Joint Compound	F	2,775	Surfacing	Good	None Detected	joint compound
1	32-05 - A	Drywall Wall and Joint Compound	F	2,775	Surfacing	Good	None Detected	drywall
2	32-05 - B	Drywall Wall and Joint Compound	F	2,775	Surfacing	Good	None Detected	joint compound
3	32-06	Ceiling Tile 1	F	2,000	Misc.	Good	None Detected	
3	32-07	Ceiling Tile 1	F	2,000	Misc.	Good	None Detected	
3	32-08	Ceiling Tile 1	F	2,000	Misc.	Good	None Detected	
4	32-09	Ceiling Tile 2	F	175	Misc.	Good	None Detected	
4	32-10	Ceiling Tile 2	F	175	Misc.	Good	None Detected	
4	32-11	Ceiling Tile 2	F	175	Misc.	Good	None Detected	
5	32-12	Drywall Ceiling and Joint Compound	F	2,875	Surfacing	Good	None Detected	Drywall only
6	32-12A	Joint Compound	F	2,875	Surfacing	Good	None Detected	joint compound
5	32-13 - A	Drywall Ceiling and Joint Compound	F	2,875	Surfacing	Good	None Detected	drywall
6	32-13 - B	Drywall Ceiling and Joint Compound	F	2,875	Surfacing	Good	None Detected	joint compound
5	32-14 - A	Drywall Ceiling and Joint Compound	F	2,875	Surfacing	Good	None Detected	drywall
6	32-14 - B	Drywall Ceiling and Joint Compound	F	2,875	Surfacing	Good	None Detected	joint compound

Category (Cat.):

F = Friable

NF1 = Non Friable Category I - asphaltic roofing, resilient flooring, packing or gaskets, mastics, sealants

NF2 = Non Friable Category II - all other non friable material

Type: Surfacing, TSI, Misc.

* Quantities are approximate



Table 1
Asbestos Sample Results (PLM)

Fire Station #2

65 Lighthouse Road, Hilton Head Island, South Carolina

GHD Reference No. 090320-32

HA	Sample #	Material Type/Description	Cat.	Quantity (ft ²)*	Type	Condition	Lab Results	Comments
5	32-15 - A	Drywall Ceiling and Joint Compound	F	2,875	Surfacing	Good	None Detected	drywall
6	32-15 - B	Drywall Ceiling and Joint Compound	F	2,875	Surfacing	Good	None Detected	joint compound
5	32-16 - A	Drywall Ceiling and Joint Compound	F	2,875	Surfacing	Good	None Detected	drywall
6	32-16 - B	Drywall Ceiling and Joint Compound	F	2,875	Surfacing	Good	None Detected	joint compound
7	32-17 - A	Apparatus Bay Wall	NF1	2,675	Surfacing	Good	None Detected	wall covering
8	32-17 - B	Apparatus Bay Wall	NF1	2,675	Surfacing	Good	None Detected	mastic
7	32-18 - A	Apparatus Bay Wall	NF1	2,675	Surfacing	Good	None Detected	wall covering
8	32-18 - B	Apparatus Bay Wall	NF1	2,675	Surfacing	Good	None Detected	mastic
7	32-19 - A	Apparatus Bay Wall	NF1	2,675	Surfacing	Good	None Detected	wall covering
8	32-19 - B	Apparatus Bay Wall	NF1	2,675	Surfacing	Good	None Detected	mastic
7	32-20 - A	Apparatus Bay Wall	NF1	2,675	Surfacing	Good	None Detected	wall covering
8	32-20 - B	Apparatus Bay Wall	NF1	2,675	Surfacing	Good	None Detected	mastic
7	32-21 - A	Apparatus Bay Wall	NF1	2,675	Surfacing	Good	None Detected	wall covering
8	32-21 - B	Apparatus Bay Wall	NF1	2,675	Surfacing	Good	None Detected	mastic
9	32-22 - A	VFT and Mastic (2 layers)	NF1	230	Surfacing	Good	None Detected	gray tile
10	32-22 - B	VFT and Mastic (2 layers)	NF1	230	Surfacing	Good	None Detected	mastic
11	32-22 - C	VFT and Mastic (2 layers)	NF1	230	Surfacing	Good	None Detected	green tile
12	32-22 - D	VFT and Mastic (2 layers)	NF1	230	Surfacing	Good	None Detected	mastic
9	32-23 - A	VFT and Mastic (2 layers)	NF1	230	Surfacing	Good	None Detected	gray tile
10	32-23 - B	VFT and Mastic (2 layers)	NF1	230	Surfacing	Good	None Detected	mastic
11	32-23 - C	VFT and Mastic (2 layers)	NF1	230	Surfacing	Good	None Detected	green tile
12	32-23 - D	VFT and Mastic (2 layers)	NF1	230	Surfacing	Good	None Detected	mastic
9	32-24 - A	VFT and Mastic (2 layers)	NF1	230	Surfacing	Good	None Detected	gray tile
10	32-24 - B	VFT and Mastic (2 layers)	NF1	230	Surfacing	Good	None Detected	mastic
11	32-24 - C	VFT and Mastic (2 layers)	NF1	230	Surfacing	Good	None Detected	green tile
12	32-24 - D	VFT and Mastic (2 layers)	NF1	230	Surfacing	Good	None Detected	mastic
13	32-25	Carpet mastic	NF1	1,100	Surfacing	Good	None Detected	
13	32-26	Carpet mastic	NF1	1,100	Surfacing	Good	None Detected	
13	32-27	Carpet mastic	NF1	1,100	Surfacing	Good	None Detected	
13	32-28	Carpet mastic	NF1	1,100	Surfacing	Good	None Detected	
13	32-29	Carpet mastic	NF1	1,100	Surfacing	Good	None Detected	



Table 1
Asbestos Sample Results (PLM)

Fire Station #2

65 Lighthouse Road, Hilton Head Island, South Carolina

GHD Reference No. 090320-32

14	32-30	Duct Mastic	NF1	100	Surfacing	Good	None Detected	
14	32-31	Duct Mastic	NF1	100	Surfacing	Good	None Detected	
14	32-32	Duct Mastic	NF1	100	Surfacing	Good	None Detected	

**Category
(Cat.):**

F = Friable

NF1 = Non Friable Category I - asphaltic roofing, resilient flooring, packing or gaskets, mastics, sealants

NF2 = Non Friable Category II - all other non friable material

Type: Surfacing, TSI, Misc.

* Quantities are approximate



Table 1
Asbestos Sample Results (PLM)

Fire Station #2

65 Lighthouse Road, Hilton Head Island, South Carolina

GHD Reference No. 090320-32

HA	Sample #	Material Type/Description	Cat.	Quantity (ft ²)*	Type	Condition	Lab Results	Comments
15	32-33	Roof Insulation	F	2,300	Misc.	Good	None Detected	
15	32-34	Roof Insulation	F	2,300	Misc.	Good	None Detected	
15	32-35	Roof Insulation	F	2,300	Misc.	Good	None Detected	
16	32-36	Roof Sealant	NF1	100	Surfacing	Good	None Detected	
16	32-37	Roof Sealant	NF1	100	Surfacing	Good	None Detected	
16	32-38	Roof Sealant	NF1	100	Surfacing	Good	None Detected	
17	32-39	Stucco	NF2	3,000	Surfacing	Good	None Detected	
17	32-40	Stucco	NF2	3,000	Surfacing	Good	None Detected	
17	32-41	Stucco	NF2	3,000	Surfacing	Good	None Detected	
17	32-42	Stucco	NF2	3,000	Surfacing	Good	None Detected	
17	32-43	Stucco	NF2	3,000	Surfacing	Good	None Detected	
17	32-44	Stucco	NF2	3,000	Surfacing	Good	None Detected	
17	32-45	Stucco	NF2	3,000	Surfacing	Good	None Detected	
18	32-46 - A	Shingle and Roof Paper	NF1	2,775	Misc.	Good	None Detected	shingle
19	32-46 - B	Shingle and Roof Paper	NF1	2,775	Misc.	Good	None Detected	roof paper
18	32-47 - A	Shingle and Roof Paper	NF1	2,775	Misc.	Good	None Detected	shingle
19	32-47 - B	Shingle and Roof Paper	NF1	2,775	Misc.	Good	None Detected	roof paper
18	32-48 - A	Shingle and Roof Paper	NF1	2,775	Misc.	Good	None Detected	shingle
19	32-48 - B	Shingle and Roof Paper	NF1	2,775	Misc.	Good	None Detected	roof paper

Category (Cat.):

F = Friable

NF1 = Non Friable Category I - asphaltic roofing, resilient flooring, packing or gaskets, mastics, sealants

NF2 = Non Friable Category II - all other non friable material

Type: Surfacing, TSI, Misc.

* Quantities are approximate



Table 2
Asbestos Sample Results (TEM)

Fire Station #2

65 Lighthouse Road, Hilton Head Island, South Carolina

GHD Reference No. 090320-32

HA	Sample #	Material Type/Description	Cat.	Quantity (ft ²)*	Type	Condition	Lab Results	Comments
7	32-17 - A	Apparatus Bay Wall	NF1	2,675	Surfacing	Good	None Detected	wall covering
8	32-17 - B	Apparatus Bay Wall	NF1	2,675	Surfacing	Good	None Detected	mastic
9	32-22 - A	VFT and Mastic (2 layers)	NF1	230	Surfacing	Good	None Detected	gray tile
10	32-22 - B	VFT and Mastic (2 layers)	NF1	230	Surfacing	Good	None Detected	mastic
11	32-22 - C	VFT and Mastic (2 layers)	NF1	230	Surfacing	Good	None Detected	green tile
12	32-22 - D	VFT and Mastic (2 layers)	NF1	230	Surfacing	Good	None Detected	mastic
13	32-25	Carpet mastic	NF1	1,100	Surfacing	Good	None Detected	
14	32-30	Duct Mastic	NF1	100	Surfacing	Good	None Detected	
16	32-36	Roof Sealant	NF1	100	Surfacing	Good	None Detected	
18	32-46 - A	Shingle and Roof Paper	NF1	2,300	Misc.	Good	None Detected	shingle
19	32-46 - B	Shingle and Roof Paper	NF1	2,300	Misc.	Good	None Detected	roof paper

**Category
(Cat.):**

F = Friable

NF1 = Non Friable Category I - asphaltic roofing, resilient flooring, packing or gaskets, mastics, sealants

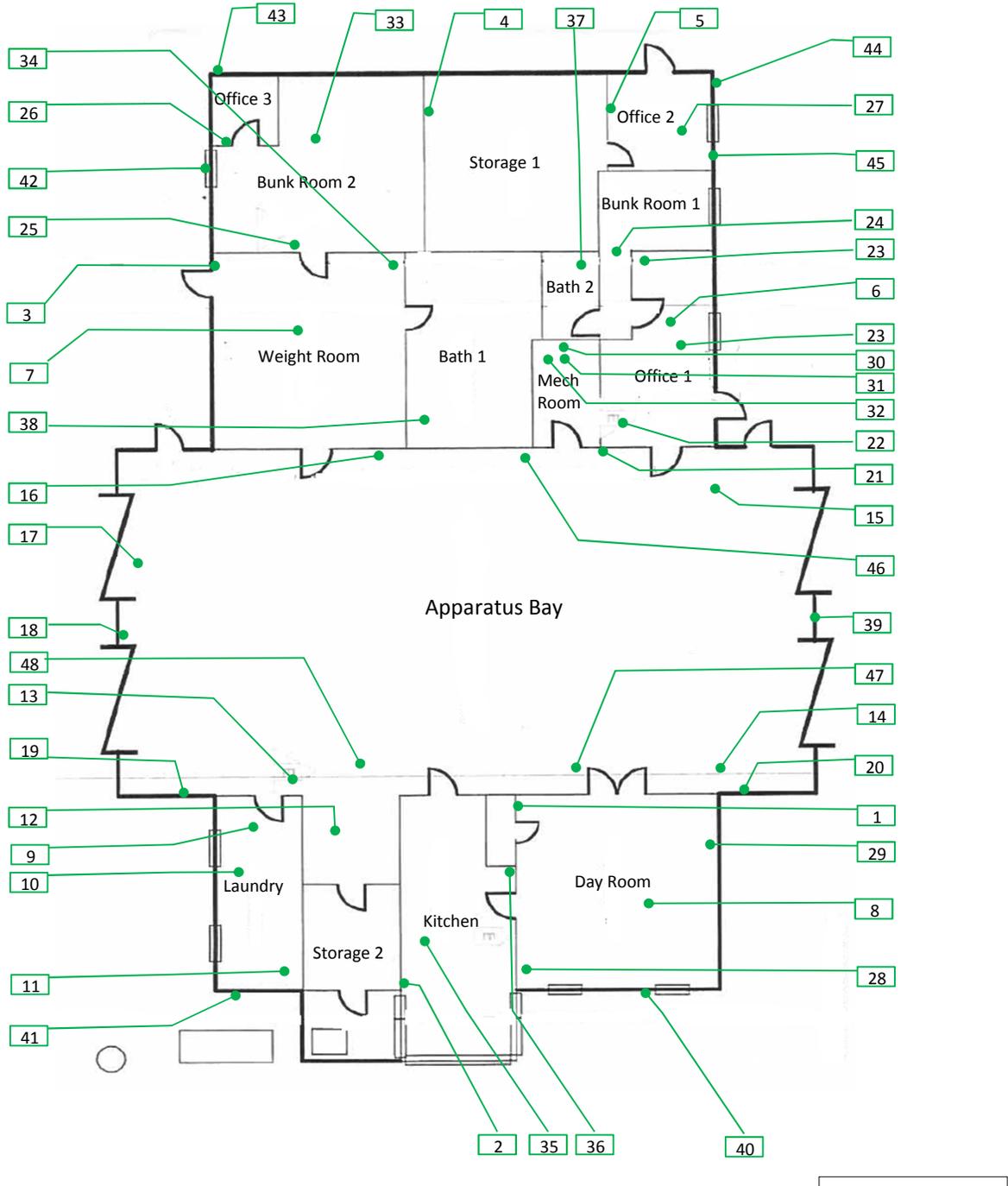
NF2 = Non Friable Category II - all other non friable material

Type: Surfacing, TSI, Misc.

* Quantities are approximate

Figure

Figure 1. Demolition Area, Sample Locations, and Photograph Locations



Reference No. 090320-32
 Project Name: Fire Station #2
 Location: 65 Lighthouse Road
 Hilton Head Island, South Carolina
 Site Visit Date: 3/8/2016

Key	
#	Interior Photograph
#	Exterior Photograph
#	ACM Sample Location (Negative Result)
#	ACM Sample Location (Positive Result)

0 Ft. 10
 Approximate

Attachment A Site Photographs



Photo 1 – Fire Station No. 2, 65 Lighthouse Road, Hilton Head Island, South Carolina.



Photo 2 – View of the drywall ceilings.



Site Photographs



Photo 3 – View of the VFT flooring.



Photo 4 – View of ceiling tile 1.



Site Photographs



Photo 5 – View of ceiling tile 2.



Photo 6 – View of the wall covering in the Apparatus Bay.





Photo 7 – View of the heat sealed membrane flat roof.



Photo 8 – View of the asphalt shingle roof.



Site Photographs

Attachment B

Laboratory Results



Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 600/M4-82-020



NVLAP Lab Code: 200664-0

Customer: GHD Services, Inc.
1510-A Drayton St
Savannah, GA 21401

Attn: Chris Jones

Lab Order ID: 1604844
Analysis ID: 1604844_PLM
Date Received: 3/11/2016
Date Reported: 3/14/2016

Project: Fire Station #2

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
32-01 - A	Drywall Wall and Joint Compound	None Detected	15% Cellulose	85% Gypsum	Brown, White Fibrous Heterogeneous
1604844PLM_1	<i>drywall</i>				Teased
32-01 - B	Drywall Wall and Joint Compound	None Detected		100% Other	White Non Fibrous Homogeneous
1604844PLM_46	<i>joint compound</i>				Crushed
32-02	Drywall Wall and Joint Compound	None Detected	15% Cellulose	70% Gypsum 15% Other	Brown, White Fibrous Heterogeneous
1604844PLM_2	<i>drywall and paint - no joint compound</i>				Teased
32-03 - A	Drywall Wall and Joint Compound	None Detected	15% Cellulose	85% Gypsum	Brown, White Fibrous Heterogeneous
1604844PLM_3	<i>drywall</i>				Teased
32-03 - B	Drywall Wall and Joint Compound	None Detected		100% Other	White Non Fibrous Homogeneous
1604844PLM_47	<i>joint compound</i>				Crushed
32-04 - A	Drywall Wall and Joint Compound	None Detected	15% Cellulose	85% Gypsum	Brown, White Fibrous Heterogeneous
1604844PLM_4	<i>drywall</i>				Teased
32-04 - B	Drywall Wall and Joint Compound	None Detected		100% Other	White Non Fibrous Homogeneous
1604844PLM_48	<i>joint compound</i>				Crushed
32-05 - A	Drywall Wall and Joint Compound	None Detected	15% Cellulose	85% Gypsum	Brown, White Fibrous Heterogeneous
1604844PLM_5	<i>drywall</i>				Teased

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Sharon Donald (73)

Analyst

Approved Signatory



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Analysis ID: 1604844_PLM
Date Received: 3/11/2016
Date Reported: 3/14/2016

Project: Fire Station #2

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
32-05 - B	Drywall Wall and Joint Compound	None Detected		100% Other	White Non Fibrous Homogeneous
1604844PLM_49	joint compound				Crushed
32-06	Ceiling Tile 1	None Detected	50% Cellulose 30% Mineral Wool	10% Perlite 10% Other	Gray, White Fibrous Heterogeneous
1604844PLM_6					Teased
32-07	Ceiling Tile 1	None Detected	50% Cellulose 30% Mineral Wool	10% Perlite 10% Other	Gray, White Fibrous Heterogeneous
1604844PLM_7					Teased
32-08	Ceiling Tile 1	None Detected	50% Cellulose 30% Mineral Wool	10% Perlite 10% Other	Gray, White Fibrous Heterogeneous
1604844PLM_8					Teased
32-09	Ceiling Tile 2	None Detected	15% Cellulose	70% Gypsum 15% Perlite	Brown, White Fibrous Heterogeneous
1604844PLM_9					Teased
32-10	Ceiling Tile 2	None Detected	15% Cellulose	70% Gypsum 15% Perlite	Brown, White Fibrous Heterogeneous
1604844PLM_10					Teased
32-11	Ceiling Tile 2	None Detected	15% Cellulose	70% Gypsum 15% Other	Brown, White Fibrous Heterogeneous
1604844PLM_11					Teased
32-12	Drywall Ceiling and Joint Compound	None Detected	15% Cellulose	70% Gypsum 15% Other	Brown, White Fibrous Heterogeneous
1604844PLM_12	drywall and paint - no joint compound				Teased

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Analysis ID: 1604844_PLM
Date Received: 3/11/2016
Date Reported: 3/14/2016

Project: Fire Station #2

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
32-13 - A	Drywall Ceiling and Joint Compound	None Detected	15% Cellulose	85% Gypsum	Brown, White Fibrous Heterogeneous
1604844PLM_13	<i>drywall</i>				Teased
32-13 - B	Drywall Ceiling and Joint Compound	None Detected		100% Other	White Non Fibrous Homogeneous
1604844PLM_50	<i>joint compound</i>				Crushed
32-14 - A	Drywall Ceiling and Joint Compound	None Detected	15% Cellulose 2% Fiber Glass	83% Gypsum	Brown, White Fibrous Heterogeneous
1604844PLM_14	<i>drywall</i>				Teased
32-14 - B	Drywall Ceiling and Joint Compound	None Detected		100% Other	White Non Fibrous Homogeneous
1604844PLM_51	<i>joint compound</i>				Crushed
32-15 - A	Drywall Ceiling and Joint Compound	None Detected	15% Cellulose	85% Gypsum	Brown, White Fibrous Heterogeneous
1604844PLM_15	<i>drywall</i>				Teased
32-15 - B	Drywall Ceiling and Joint Compound	None Detected		100% Other	White Non Fibrous Homogeneous
1604844PLM_52	<i>joint compound</i>				Crushed
32-16 - A	Drywall Ceiling and Joint Compound	None Detected	15% Cellulose	85% Gypsum	Brown, White Fibrous Heterogeneous
1604844PLM_16	<i>drywall</i>				Teased
32-16 - B	Drywall Ceiling and Joint Compound	None Detected		100% Other	White Non Fibrous Homogeneous
1604844PLM_53	<i>joint compound</i>				Crushed

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Savannah, GA 21401

Attn: Chris Jones

Lab Order ID: 1604844
Analysis ID: 1604844_PLM
Date Received: 3/11/2016
Date Reported: 3/14/2016

Project: Fire Station #2

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
32-17 - A	Apparatus Bay Wall	None Detected	20% Fiber Glass	80% Other	White Non Fibrous Heterogeneous
1604844PLM_17	wall covering				Dissolved
32-17 - B	Apparatus Bay Wall	None Detected		100% Other	Yellow Non Fibrous Homogeneous
1604844PLM_54	mastic				Dissolved
32-18 - A	Apparatus Bay Wall	None Detected	20% Fiber Glass	80% Other	White Non Fibrous Heterogeneous
1604844PLM_18	wall covering				Dissolved
32-18 - B	Apparatus Bay Wall	None Detected		100% Other	Yellow Non Fibrous Homogeneous
1604844PLM_55	mastic				Dissolved
32-19 - A	Apparatus Bay Wall	None Detected	20% Fiber Glass	80% Other	White Non Fibrous Heterogeneous
1604844PLM_19	wall covering				Dissolved
32-19 - B	Apparatus Bay Wall	None Detected		100% Other	Gray Non Fibrous Homogeneous
1604844PLM_56	mastic				Dissolved
32-20 - A	Apparatus Bay Wall	None Detected	20% Fiber Glass	80% Other	White Non Fibrous Heterogeneous
1604844PLM_20	wall covering				Dissolved
32-20 - B	Apparatus Bay Wall	None Detected		100% Other	Gray Non Fibrous Homogeneous
1604844PLM_57	mastic				Dissolved

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Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 600/M4-82-020



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Savannah, GA 21401

Attn: Chris Jones

Lab Order ID: 1604844
Analysis ID: 1604844_PLM
Date Received: 3/11/2016
Date Reported: 3/14/2016

Project: Fire Station #2

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
32-21 - A	Apparatus Bay Wall	None Detected	20% Fiber Glass	80% Other	White Non Fibrous Heterogeneous
1604844PLM_21	wall covering				Dissolved
32-21 - B	Apparatus Bay Wall	None Detected		100% Other	Gray Non Fibrous Homogeneous
1604844PLM_58	mastic				Dissolved
32-22 - A	VFT and Mastic (2 layers)	None Detected		100% Other	Gray Non Fibrous Heterogeneous
1604844PLM_22	gray tile				Dissolved
32-22 - B	VFT and Mastic (2 layers)	None Detected		100% Other	Black Non Fibrous Homogeneous
1604844PLM_59	mastic				Dissolved
32-22 - C	VFT and Mastic (2 layers)	None Detected		100% Other	Green Non Fibrous Heterogeneous
1604844PLM_60	green tile				Dissolved
32-22 - D	VFT and Mastic (2 layers)	None Detected		100% Other	Black Non Fibrous Homogeneous
1604844PLM_61	mastic				Dissolved
32-23 - A	VFT and Mastic (2 layers)	None Detected		100% Other	Gray Non Fibrous Heterogeneous
1604844PLM_23	gray tile				Dissolved
32-23 - B	VFT and Mastic (2 layers)	None Detected		100% Other	Black Non Fibrous Homogeneous
1604844PLM_62	mastic				Dissolved

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Analyst

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Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 600/M4-82-020



NVLAP Lab Code: 200664-0

Customer: GHD Services, Inc.
1510-A Drayton St
Savannah, GA 21401

Attn: Chris Jones

Lab Order ID: 1604844
Analysis ID: 1604844_PLM
Date Received: 3/11/2016
Date Reported: 3/14/2016

Project: Fire Station #2

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
32-23 - C	VFT and Mastic (2 layers)	None Detected		100% Other	Green Non Fibrous Heterogeneous
1604844PLM_63	green tile				Dissolved
32-23 - D	VFT and Mastic (2 layers)	None Detected		100% Other	Black Non Fibrous Homogeneous
1604844PLM_64	mastic				Dissolved
32-24 - A	VFT and Mastic (2 layers)	None Detected		100% Other	Gray Non Fibrous Heterogeneous
1604844PLM_24	gray tile				Dissolved
32-24 - B	VFT and Mastic (2 layers)	None Detected		100% Other	Black Non Fibrous Homogeneous
1604844PLM_65	mastic				Dissolved
32-24 - C	VFT and Mastic (2 layers)	None Detected		100% Other	Gray Non Fibrous Heterogeneous
1604844PLM_66	green tile				Dissolved
32-24 - D	VFT and Mastic (2 layers)	None Detected		100% Other	Black Non Fibrous Homogeneous
1604844PLM_67	mastic				Dissolved
32-25	Carpet mastic	None Detected		100% Other	Yellow Non Fibrous Homogeneous
1604844PLM_25					Dissolved
32-26	Carpet mastic	None Detected		100% Other	Yellow Non Fibrous Homogeneous
1604844PLM_26					Dissolved

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Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 600/M4-82-020



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Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
32-27	Carpet mastic	None Detected		100% Other	Yellow Non Fibrous Homogeneous
1604844PLM_27					Dissolved
32-28	Carpet mastic	None Detected		100% Other	Yellow Non Fibrous Homogeneous
1604844PLM_28					Dissolved
32-29	Carpet mastic	None Detected		100% Other	Yellow Non Fibrous Homogeneous
1604844PLM_29					Dissolved
32-30	Duct Mastic	None Detected	10% Cellulose	90% Other	Gray Non Fibrous Homogeneous
1604844PLM_30					Dissolved
32-31	Duct Mastic	None Detected	10% Cellulose	90% Other	Gray Non Fibrous Homogeneous
1604844PLM_31					Dissolved
32-32	Duct Mastic	None Detected	10% Cellulose	90% Other	Gray Non Fibrous Homogeneous
1604844PLM_32					Dissolved
32-33	Roof Insulation	None Detected	98% Cellulose	2% Other	Brown Fibrous Homogeneous
1604844PLM_33					Teased
32-34	Roof Insulation	None Detected	98% Cellulose	2% Other	Brown Fibrous Homogeneous
1604844PLM_34					Teased

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Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
32-35	Roof Insulation	None Detected	98% Cellulose	2% Other	Brown Fibrous Homogeneous
1604844PLM_35					Teased
32-36	Roof Sealant	None Detected		100% Other	Gray, White Non Fibrous Homogeneous
1604844PLM_36					Ashed
32-37	Roof Sealant	None Detected		100% Other	Gray, White Non Fibrous Homogeneous
1604844PLM_37					Ashed
32-38	Roof Sealant	None Detected		100% Other	Gray, White Non Fibrous Homogeneous
1604844PLM_38					Ashed
32-39	Stucco	None Detected		100% Other	Gray, White Non Fibrous Heterogeneous
1604844PLM_39					Crushed
32-40	Stucco	None Detected		100% Other	Gray, White Non Fibrous Heterogeneous
1604844PLM_40					Crushed
32-41	Stucco	None Detected		100% Other	Gray, White Non Fibrous Heterogeneous
1604844PLM_41					Crushed
32-42	Stucco	None Detected		100% Other	Gray, White Non Fibrous Heterogeneous
1604844PLM_42					Crushed

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Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
32-43	Stucco	None Detected		100% Other	Gray, White Non Fibrous Heterogeneous
1604844PLM_43					Crushed
32-44	Stucco	None Detected		100% Other	Gray, White Non Fibrous Heterogeneous
1604844PLM_44					Crushed
32-45	Stucco	None Detected		100% Other	Gray, White Non Fibrous Heterogeneous
1604844PLM_45					Crushed
32-46 - A	Shingle and Roof Paper	None Detected	15% Fiber Glass	85% Other	Brown, Black Non Fibrous Heterogeneous
1604844PLM_68	shingle				Dissolved
32-46 - B	Shingle and Roof Paper	None Detected	80% Cellulose	20% Other	Black Fibrous Heterogeneous
1604844PLM_71	roof paper				Teased
32-47 - A	Shingle and Roof Paper	None Detected	15% Fiber Glass	85% Other	Brown, Black Non Fibrous Heterogeneous
1604844PLM_69	shingle				Dissolved
32-47 - B	Shingle and Roof Paper	None Detected	80% Cellulose	20% Other	Black Fibrous Heterogeneous
1604844PLM_72	roof paper				Teased
32-48 - A	Shingle and Roof Paper	None Detected	15% Fiber Glass	85% Other	Brown, Black Non Fibrous Heterogeneous
1604844PLM_70	shingle				Dissolved

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Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
32-48 - B	Shingle and Roof Paper	None Detected	80% Cellulose	20% Other	Black Fibrous Heterogeneous
1604844PLM_73	roof paper				Teased

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Sharon Donald (73)

Analyst

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1604844 R

Client:	GHD	*Instructions: Use Column "B" for your contact info	Scientific Analytical Institute, Inc.
Contact:	Chris Jones		
Address:	Savannah, GA 31401	To See an Example Click the bottom Example Tab.	302-L Pomona Dr. Greensboro, NC 27407 Phone: 336.292.3888 Fax: 336.292.3313 Email: lab@sailab.com
Phone:	(912) 235-3021		
Fax:	(912) 235-3023	Enter samples between "<<" and ">>" Begin Samples with a "<<" above the first sample and end with a ">>" below the last sample. Only Enter your data on the first sheet "Sheet1"	
Email:	christopher.jones@ghd.com		
Project:	Fire Station #2	Note: Data 1 and Data 2 are optional fields that do not show up on the official report, however they will be included in the electronic data returned to you to facilitate your reintegration of the report data.	
Client Notes:	If PLM (3day TAT) neg Run TEM (3 day TAT) on One from Group		
P.O. #:	34006400		
Date Submitted:	3/8/2016 16:00		
Analysis:	PLM and TEM		
TurnAroundTime:	PLM 3 day TEM 3 Day		

Sample Number	Data 1	Sample Description	Data 2
<<			
32-01		Drywall Wall and Joint Compound	PLM
32-02		Drywall Wall and Joint Compound	PLM
32-03		Drywall Wall and Joint Compound	PLM
32-04		Drywall Wall and Joint Compound	PLM
32-05		Drywall Wall and Joint Compound	PLM
32-06		Ceiling Tile 1	PLM
32-07		Ceiling Tile 1	PLM
32-08		Ceiling Tile 1	PLM
32-09		Ceiling Tile 2	PLM
32-10		Ceiling Tile 2	PLM
32-11		Ceiling Tile 2	PLM
32-12		Drywall Ceiling and Joint Compound	PLM
32-13		Drywall Ceiling and Joint Compound	PLM
32-14		Drywall Ceiling and Joint Compound	PLM
32-15		Drywall Ceiling and Joint Compound	PLM
32-16		Drywall Ceiling and Joint Compound	PLM
32-17		Apparatus Bay Wall	PLM and Possible TEM
32-18		Apparatus Bay Wall	PLM

1604844R

32-19	Apparatus Bay Wall	PLM
32-20	Apparatus Bay Wall	PLM
32-21	Apparatus Bay Wall	PLM
32-22	VFT and Mastic (2 layers)	PLM and Possible TEM
32-23	VFT and Mastic (2 layers)	PLM
32-24	VFT and Mastic (2 layers)	PLM
32-25	Carpet mastic	PLM and Possible TEM
32-26	Carpet mastic	PLM
32-27	Carpet mastic	PLM
32-28	Carpet mastic	PLM
32-29	Carpet mastic	PLM
32-30	Duct Mastic	PLM and Possible TEM
32-31	Duct Mastic	PLM
32-32	Duct Mastic	PLM
32-33	Roof Insulation	PLM
32-34	Roof Insulation	PLM
32-35	Roof Insulation	PLM
32-36	Roof Sealant	PLM and Possible TEM
32-37	Roof Sealant	PLM
32-38	Roof Sealant	PLM
32-39	Stucco	PLM
32-40	Stucco	PLM
32-41	Stucco	PLM
32-42	Stucco	PLM
32-43	Stucco	PLM
32-44	Stucco	PLM
32-45	Stucco	PLM
32-46	Shingle and Roof Paper	PLM and TEM
32-47	Shingle and Roof Paper	PLM
32-48	Shingle and Roof Paper	PLM
>>		



Bulk Asbestos Analysis by Transmission Electron Microscopy

Semi-Quantitative
Chatfield SOP 1988-02 Rev. 1

Customer: GHD Services, Inc.
1510-A Drayton St
Savannah, GA 21401

Attn: Chris Jones

Lab Order ID: 1604987

Analysis ID: 1604987_TBS

Date Received: 3/15/2016

Date Reported: 3/14/2016

Project: Fire Station #2

Sample ID	Description	Organic	Acid Sol.	Asbestos	LCL-UCL
<i>Lab Sample ID</i>	<i>Lab Notes</i>	<i>(Wt. %)</i>	<i>(Wt. %)</i>	<i>(Wt. %)</i>	<i>(Wt. %)</i>
32-17	Apparatus bay wall	52%	-	None Detected	
1604987TBS_1					
32-17	Apparatus bay wall	43%	-	None Detected	
1604987TBS_2					
32-22-A	VFT and mastic (2layers)	14%	84%	None Detected	
1604987TBS_3	gray tile				
32-22-B	VFT and mastic (2layers)	57%	-	None Detected	
1604987TBS_4	mastic				
32-22-C	VFT and mastic (2layers)	14%	83%	None Detected	
1604987TBS_10	green tile				
32-22-D	VFT and mastic (2layers)	46%	-	None Detected	
1604987TBS_5	mastic				

Disclaimer: This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAI. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. government.

Ired Gulley (11)

Analyst

Approved Signatory

Scientific Analytical Institute, Inc. 4604 Dundas Dr. Greensboro, NC 27407 (336) 292-3888



Bulk Asbestos Analysis by Transmission Electron Microscopy

**Semi-Quantitative
Chatfield SOP 1988-02 Rev. 1**

Customer: GHD Services, Inc.
1510-A Drayton St
Savannah, GA 21401

Attn: Chris Jones

Lab Order ID: 1604987

Project: Fire Station #2

Analysis ID: 1604987_TBS

Date Received: 3/15/2016

Date Reported: 3/14/2016

Sample ID	Description	Organic	Acid Sol.	Asbestos	LCL-UCL
<i>Lab Sample ID</i>	<i>Lab Notes</i>	<i>(Wt. %)</i>	<i>(Wt. %)</i>	<i>(Wt. %)</i>	<i>(Wt. %)</i>
32-25	Roof sealant	50.0%	-	None Detected	
<i>1604987TBS_6</i>					
32-30	Duct mastic	52%	-	None Detected	
<i>1604987TBS_7</i>					
32-36	Carpet mastic	35%	-	None Detected	
<i>1604987TBS_11</i>					
32-46A	Shingle and roof paper	22%	-	None Detected	
<i>1604987TBS_8</i>	<i>shingle</i>				
32-46B	Shingle and roof paper	97%	-	None Detected	
<i>1604987TBS_9</i>	<i>roof paper</i>				

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Ired Gulley (11)

Analyst

Scientific Analytical Institute, Inc. 4604 Dundas Dr. Greensboro, NC 27407 (336) 292-3888

Approved Signatory

1604987

Client:	GHD	*Instructions: Use Column "B" for your contact info	Scientific Analytical Institute, Inc.
Contact:	Chris Jones		
Address:	Savannah, GA 31401	To See an Example Click the bottom Example Tab.	302-L Pomona Dr. Greensboro, NC 27407 Phone: 336.292.3888 Fax: 336.292.3313 Email: lab@saiiab.com
Phone:	(912) 235-3021		
Fax:	(912) 235-3023	Enter samples between "<<" and ">>" Begin Samples with a "<<" above the first sample and end with a ">>" below the last sample. Only Enter your data on the first sheet "Sheet1"	
Email:	christopher.jones@ghd.com		
Project:	Fire Station #2	Note: Data 1 and Data 2 are optional fields that do not show up on the official report, however they will be included in the electronic data returned to you to facilitate your reintegration of the report data.	
Client Notes:	If PLM (3day TAT) neg Run TEM (3 day TAT) on One from Group		
P.O. #:	34006400		
Date Submitted:	3/8/2016 16:00		
Analysis:	PLM and TEM		
TurnAroundTime:	PLM 3 day TEM 3 Day		

Sample Number	Data 1	Sample Description	Data 2
<<			
32-01		Drywall Wall and Joint Compound	PLM
32-02		Drywall Wall and Joint Compound	PLM
32-03		Drywall Wall and Joint Compound	PLM
32-04		Drywall Wall and Joint Compound	PLM
32-05		Drywall Wall and Joint Compound	PLM
32-06		Ceiling Tile 1	PLM
32-07		Ceiling Tile 1	PLM
32-08		Ceiling Tile 1	PLM
32-09		Ceiling Tile 2	PLM
32-10		Ceiling Tile 2	PLM
32-11		Ceiling Tile 2	PLM
32-12		Drywall Ceiling and Joint Compound	PLM
32-13		Drywall Ceiling and Joint Compound	PLM
32-14		Drywall Ceiling and Joint Compound	PLM
32-15		Drywall Ceiling and Joint Compound	PLM
32-16		Drywall Ceiling and Joint Compound	PLM
32-17		Apparatus Bay Wall	PLM and Possible TEM
32-18		Apparatus Bay Wall	PLM

Accepted

Rejected

M. Ives Roblee
3.15 11:30a

1604987

32-19	Apparatus Bay Wall	PLM
32-20	Apparatus Bay Wall	PLM
32-21	Apparatus Bay Wall	PLM
32-22	VFT and Mastic (2 layers)	PLM and Possible TEM
32-23	VFT and Mastic (2 layers)	PLM
32-24	VFT and Mastic (2 layers)	PLM
32-25	Carpet mastic	PLM and Possible TEM
32-26	Carpet mastic	PLM
32-27	Carpet mastic	PLM
32-28	Carpet mastic	PLM
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32-40	Stucco	PLM
32-41	Stucco	PLM
32-42	Stucco	PLM
32-43	Stucco	PLM
32-44	Stucco	PLM
32-45	Stucco	PLM
32-46	Shingle and Roof Paper	PLM and TEM
32-47	Shingle and Roof Paper	PLM
32-48	Shingle and Roof Paper	PLM
>>		



Bulk Asbestos Analysis

By Polarized Light Microscopy
EPA Method: 600/R-93/116 and 600/M4-82-020



Customer: GHD Services, Inc.
1510-A Drayton St
Savannah, GA 21401

Attn: Chris Jones

Lab Order ID: 1605674
Analysis ID: 1605674_PLM
Date Received: 3/23/2016
Date Reported: 3/23/2016

Project: Fire Station 2

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
32-02B	Joint Compound	None Detected		100% Other	White Non Fibrous Heterogeneous
1605674PLM_1					Crushed
32-12B	Joint Compound	None Detected		100% Other	White Non Fibrous Heterogeneous
1605674PLM_2					Crushed

Disclaimer: Due to the nature of the EPA 600 method, asbestos may not be detected in samples containing low levels of asbestos. We strongly recommend that analysis of floor tiles, vermiculite, and/or heterogeneous soil samples be conducted by TEM for confirmation of "None Detected" by PLM. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAL. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. government. Analytical uncertainty available upon request. Scientific Analytical Institute participates in the NVLAP Proficiency Testing program. Unless otherwise noted blank sample correction was not performed. Estimated MDL is 0.1%.

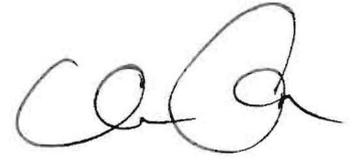
Christopher Subudhi (2)

Analyst

Approved Signatory

1605674

Client:	GHD	*Instructions: Use Column "B" for your contact info To See an Example Click the bottom Example Tab. Enter samples between "<<" and ">>" Begin Samples with a "<<" above the first sample and end with a ">>" below the last sample. Only Enter your data on the first sheet "Sheet1" <i>Note: Data 1 and Data 2 are optional fields that do not show up on the official report, however they will be included in the electronic data returned to you to facilitate your reintegration of the report data.</i>	Scientific Analytical Institute, Inc. 302-L Pomona Dr. Greensboro, NC 27407 Phone: 336.292.3888 Fax: 336.292.3313 Email: lab@sailab.com
Contact:	Chris Jones		
Address:	Savannah, GA 31401		
Phone:	(912) 235-3021		
Fax:	(912) 235-3023		
Email:	christopher.jones@ghd.com		
Project:	Fire Station #2		
Client Notes:	If PLM (1 day TAT)		
P.O. #:	34006400		
Date Submitted:	3/14/2016 16:00		
Analysis:	PLM		
TurnAroundTime:	PLM 1 day		



Sample Number	Data 1	Sample Description	Data 2
<<			
32-02B		Joint Compound	PLM
32-12B		Joint Compound	PLM
>>			

Accepted
 Rejected

MCCL 3/23 1030A

Attachment C Qualifications

SCDHEC ISSUED
Asbestos ID Card

Christopher P Jones

Expiration Date

CONSULTBI BI-00495 01/24/17



This card is nontransferable and considered invalid if loaned or given to another person for identification. This card will also be invalid if altered or defaced. This card is property of SCDHEC. It must be returned to the department if the holder's accreditation is revoked or if this card is invalidated. Any person performing regulated asbestos activities without current accreditation shall be subject to legal sanction. This card must be returned upon expiration and/or issuance of a new card.

YOU MUST HAVE THIS IDENTIFICATION CARD WITH YOU ON THE JOB.

For information or corrections contact: SCDHEC - Asbestos Section
2600 Bull Street
Columbia, SC 29201
(803) 898-4289