

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT		1. CONTRACT ID CODE	PAGE OF PAGES 1 22
2. AMENDMENT/MODIFICATION NO. 000001	3. EFFECTIVE DATE 06/27/2013	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)
6. ISSUED BY NASA/Marshall Space Flight Center Office of Procurement Marshall Space Flight Center AL 35812	CODE MSFC	7. ADMINISTERED BY (If other than Item 6) NASA/Marshall Space Flight Center Marshall Space Flight Center AL 35812	CODE MSFC
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)		(x) 9A. AMENDMENT OF SOLICITATION NO. NNM13ZPS003E	
		X 9B. DATED (SEE ITEM 11) 05/29/2013	
		10A. MODIFICATION OF CONTRACT/ORDER NO.	
		10B. DATED (SEE ITEM 13)	
CODE	FACILITY CODE		

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers is extended. is not extended.
 Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor is not. is required to sign this document and return _____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

The purpose of this amendment to IFB NNM13ZPS003E, Revitalization of Building 4666, is to provide answers to questions asked by several of the potential bidders. These questions and answers are being provided to assist all contractors in preparing their bid.

Question 1: It appears we are missing some civil drawings. On the civil drawing included in the package at the very bottom it says sheet 1 of 9, but the rest of the civil drawings are not provided and are not listed on the index. Was this a misprint or are there other drawings that we may possibly be missing?

Answer: Sheets C2-C9 were omitted from the package. No civil work north of "Part A" (South Wing) is allowed currently (no digging). The drawings were set aside in case the Army Continued ...

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)	16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Brian A Speer
15B. CONTRACTOR/OFFEROR	16B. UNITED STATES OF AMERICA
(Signature of person authorized to sign)	(Signature of Contracting Officer) <i>Brian A. Speer</i> June 27, 2013
15C. DATE SIGNED	16C. DATE SIGNED

CONTINUATION SHEET

REFERENCE NO. OF DOCUMENT BEING CONTINUED
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NAME OF OFFEROR OR CONTRACTOR

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	<p>changes their position. The Drawing package is complete. "Part C" and "Part B" of 4666 sit in what is referred to as Marshall 3. Marshall 3 is a large area that is suspect for old Army munitions and is currently being investigated. The contractor will still be responsible for repairing all grassy areas disturbed during construction as explained in the specifications. See attached Drawing for Question 1.</p> <p>Question 2: Sheet E-2 has note for new underground secondary to consist of 6-4" conduits encased in concrete. Sheet E-30 has note for new underground secondary to consist of 8 sets of 4-350 mcm in 4" conduit. Please advise as to the number of conduits to be placed in ductbank and conductor size.</p> <p>Answer: Change note on E-2 to read 8 sets of 4-350 mcm in 4" conduit.</p> <p>Question 3: Drawing E-2 Shows duck bank to cable bus transition cabinet at 1st floor Part "A." 1st Floor "A" drawing E9/A7 shows running cable bus vertical and then horizontal to section "B" on exterior of building. On vertical run are we to core drill or "saw cut" concrete canopy as identified per drawing A-7 key note "B." This canopy is also identified on drawing A-30 detail 4. Is cable tray to be installed on top of concrete canopy? Will canopy support the specified cable bus? Is cable bus to be installed on exterior wall? Will exterior wall support cable bus? Please advise on routing of cable bus.</p> <p>Answer: Saw-cut the concrete canopy to accommodate the cable bus at two locations (cable bus duct is rectangular in shape). Refer to attached sketch of saw-cut opening in existing canopies. Final opening dimension will depend on cable bus provided by contractor. Verify final saw-cut dimensions and locations prior to work. The Cable Bus Duct (Assembly) is to be routed above the canopy (not attached/on it). Where notes on E2 for the cable bus duct refer to "platform," it is in reference to the "canopy." (i.e. "Route cable bus duct 1 foot above platform"...would be "Route cable bus duct 1 foot above canopy..."). The louver in reference for</p> <p>Continued ...</p>				

NAME OF OFFEROR OR CONTRACTOR

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	<p>the note on E2 for the cable bus duct, that reads "Route cable bus duct 1 foot above wall louver," is above the canopy, 1 foot above the louver that is located just to the north of column line 4. The cable bus duct is to be supported by the walls/columns. The supports are to be from the manufacturer with the anchorage and additional bracing/support as determined by the Seismic-Restraint Details (see specification 26 05 48 "Vibration and Seismic Controls for Electrical Systems" and 26 05 29 "Hangars and Supports for Electrical Systems"). The cable bus support bracket spacing can be up to 8'-0" maximum. See attached Drawing for Question 3.</p> <p>Question 4: Is there cable tray on 1st floor Part "A" sheet E-15? Is there cable tray on 2nd floor Part "A" sheet E-19?</p> <p>Answer: Yes. There is to be new cable tray on all floors and all "Parts; A, B and C." The cable trays are indicated on all "Systems" plan drawings (drawings E15, E16, E17, E18, E19 and E20). Keynote 3 on sheets E16, E18, E19 and E20 should read the same as on E17: "24-INCH WIDE CABLE TRAY. ROUTE ABOVE THE CEILING"</p> <p>Question 5: Can you provide an environmental survey of the building, something that quantifies and qualifies the nature and extent of asbestos and lead based paint (LBP) in and/or on the building?</p> <p>Answer: Yes, see attached "BWSC Asbestos Survey, Building 4666."</p> <p>Question 6: Is there a location on site/base to dispose of hazardous materials/asbestos/lead based paint (LBP)?</p> <p>Answer: Yes, the Redstone Arsenal Landfill.</p> <p>Question 7: Is there a specific lead content in paint such that the paint would not be considered hazardous?</p> <p>Answer: Bid per design package.</p> <p>Question 8: During the walkthrough it was mentioned that the existing orange cabling</p> <p>Continued ...</p>				

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ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	<p>throughout the building stays. This will complicate other demolition activities. Can you confirm and/or clarify the need to leave any cabling in place?</p> <p>Answer: Bid per design package.</p> <p>Question 9: Please confirm whether restroom vanities are solid surface or plastic laminate.</p> <p>Answer: Solid surface.</p> <p>Question 10: Can I get a clarification on the type of ceiling tile and size of grid? There is a huge price difference in tegular ceiling tile and beveled tegular, and a 25% price increase between 15\16 grid to 9\16 grid.</p> <p>Answer: Ceiling grid to be 24 x 24 with 7/8; thick beveled tegular acoustical ceiling tiles (similar to Armstrong Cirrus).</p> <p>Question 11: Does the existing exterior paint contain lead?</p> <p>Answer: No, bid per design package.</p> <p>Question 12: Are any of the existing trees or shrubs to be removed?</p> <p>Answer: No, not per contract drawings, however some removal will be allowed for the convenience/access of the contractor.</p> <p>Question 13: It does not state specifically how many onsite personnel the contractor should have present during construction. Can the site superintendent also be the onsite quality control (QC) Manager and/or the SSHO for these projects? Also, will these projects require a separate Site Safety Health Officer to be onsite during the construction period?</p> <p>Answer: The superintendent, onsite quality control (QC) manager, and SSHO may be the same person provided all qualification requirements for each of these positions (set forth in each of the applicable specification sections) are met and all functions can be carried out effectively.</p> <p>Continued ...</p>				

CONTINUATION SHEET

REFERENCE NO. OF DOCUMENT BEING CONTINUED
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ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	<p>Question 14: Per spec section 01 50 90 "Special Conditions" there is a graph for unexploded ordnance (UXO) personnel stated on page 14. Will the contractor be required to provide each one of these personnel at the site during construction? Does this apply to Building 4666 since there is a "no dig" requirement for this project?</p> <p>Answer: No, the contractor will not be required to provide each one of these personnel at the site during construction. Follow directions per specification "Special Conditions" 01 05 90 1.4, Item B. Yes, this does apply to Building 4666 since some digging does occur at this project.</p> <p>Question 15: A new PIV is shown to be installed for Bldg. 4666, however it is stated that there shall be no digging on this site. How is the contractor to install this PIV without the ability to dig?</p> <p>Answer: See the answer to Question 1 above.</p> <p>Question 16: Quality Assurance notes, Spec.27-15-00, Pg.3, Sect1.7-B (and others throughout), specify that all testing is to be done by a third party NTRL (Nationally Recognized Testing Lab) agency which we all know adds mega-bucks to the cost estimate. Are they really sure they want to specify that, even though any installer meeting RFP standards and requirements can provide the exact same certified test results as they would using the same test equipment?</p> <p>Answer: Testing by independent third party testing labs/agencies shall be as delineated in applicable specification sections.</p> <p>Question 17: Specs do not indicate who provides the speakers for the EWS and paging systems, but the design drawings legend indicates they are MSFC provided. Are the drawing legends correct?</p> <p>Answer: EWS and paging speakers will be provided by MSFC.</p> <p>Question 18: Spec.27-15-00, Pg.4, Sect.2.5-B indicates Stainless Steel faceplates with 45-deg. angled jack ports. Panduit (sole source required) does not make a SS faceplate with Continued ...</p>				

NAME OF OFFEROR OR CONTRACTOR

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	<p>angled ports. Spec.28-05-00 does not specify either Stainless Steel or angled for the faceplates. We can provide flat Stainless Steel or 45-deg. angled in plastic. Which is preferred?</p> <p>Answer: Provide Panduit CFPL4SY - Flat Stainless Steel face plate MINI-Com series.</p> <p>Question 19: Voice jacks are specified as matching in color to the faceplate, but nowhere is it specified what color is the faceplate to be; that is, white, ivory, grey, or stainless steel.</p> <p>Answer: Faceplates to be stainless steel.</p> <p>Question 20: It specifies that the cable tray, conduits and cable raceways are provided under the base building design spec, which I assume means provided by the primary electrical contractor. What about individual wall or floor pass through sleeves?</p> <p>Answer: The general contractor (GC) is to provide all pass-through sleeves during construction.</p> <p>Question 21: Spec.28-05-00, Pg.16, Sect.7.5.A-1 indicates the required wire size/description for the Security System Cabling, but only item 1.c indicates where/how that type of cable is to be used. Can we get a little further clarification as to where the other types are to be applied. (Also, I think item 1.c should read 18 AWG, not 8 AWG).</p> <p>Answer: The construction drawings specify where the cables are used, not the specifications. The 18-4 cable and the 22-2 cable are used from the Communications Room to the junction boxes. The 22-6 cable is used from the junction boxes to the readers. The reference to 8 AWG cable, in the specifications, is incorrect; the correct cable shall be 18 AWG, 4 conductor.</p> <p>Question 22: Spec.28-05-00, Pg.16, Sect.7.5.A-1 indicates the required wire size/description for the Security System Cabling, but only item 1.c indicates where/how that type of cable is to be used. Can we get a little further clarification as to where the other types are to be applied. Continued ...</p>				

NAME OF OFFEROR OR CONTRACTOR

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	<p>(Also, I think item 1.c should read 18 AWG, not 8 AWG).</p> <p>Answer: The construction drawings specify where the cables are used, not the specifications. The 18-4 cable and the 22-2 cable are used from the Communications Room to the junction boxes. The 22-6 cable is used from the junction boxes to the readers. The reference to 8 AWG cable, in the specifications, is incorrect; the correct cable shall be 18 AWG, 4 conductor.</p> <p>Question 23: There is no specification on the windows. Will they be all storefront or some type of operating? I need clarification</p> <p>Answer: Bid per design package. See general notes A42, A29.</p> <p>Question 24: Will windows and glass need to meet blast? If so I need standoff and charge weight.</p> <p>Answer: No, bid per design package.</p> <p>Question 25: The wind load on the window specification says to go by the information on the drawings. I have not found any information on that.</p> <p>Answer: Bid per design package.</p> <p>Question 26: Do the storefront doors have to be thermally broken?</p> <p>Answer: Bid per design package.</p> <p>Question 27: Section 02 41 19, 1.7 Field Conditions, states: C. Hazardous Materials: It is not expected that hazardous materials will be encountered in the Work. D. Hazardous Materials: Hazardous materials are present in buildings and structures to be selectively demolished. A report on the presence of hazardous materials is on file for review and use. Examine report to become aware of locations where hazardous materials are present. 1. Hazardous material remediation is specified elsewhere in the Contract Documents. 2. Do not disturb hazardous materials or items Continued ...</p>				

NAME OF OFFEROR OR CONTRACTOR

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	<p>suspected of containing hazardous materials except under procedures specified elsewhere in the Contract Documents.</p> <p>The above paragraphs are conflicting statements and we will need the hazardous material survey/report in order to determine the level of hazardous material removal. Please provide this report for bidding purposes.</p> <p>Answer: Omit "C" in Specification section 02 41 19 1.7 Field Conditions. Hazardous material reports are included with these questions and answers.</p> <p>Question 28: Are all windows as shown on drawing FAC-AR-466-A42 to receive blinds? Or only windows A through E, I, and J.</p> <p>Answer: All windows as shown on drawing FAC-AR-466-A42 are to receive blinds.</p> <p>***** Clarification *****</p> <p>A. The flooring under the carpet is asbestos tile.</p> <p>B. Sheet A1 - A6 add note "D" - Abate all vinyl floor tile and associated (asbestos) mastic. All vinyl tile and mastic is to be treated as asbestos containing material. Any work involving asbestos materials must be conducted in accordance with appropriate NASA procedures, 29 CFR 1910.1001 and 1926.1101.</p> <p>C. The following is a list of asbestos containing materials (ACM) at Building 4666</p> <ol style="list-style-type: none"> 1. Any Blue 9 x 9 Floor Tiles 2. 12 x 12 Ceiling Tiles and Mastic Located in the Tunnel 3. Any Gray 9 x 9 Floor Tiles 4. The Mastic Associated with the Beige Speckled 12 x 12 Floor Tiles Located Hallway South from Room 259 to North Room 274 <p>Continued ...</p>				

CONTINUATION SHEET

REFERENCE NO. OF DOCUMENT BEING CONTINUED
NNM13ZPS003E/000001

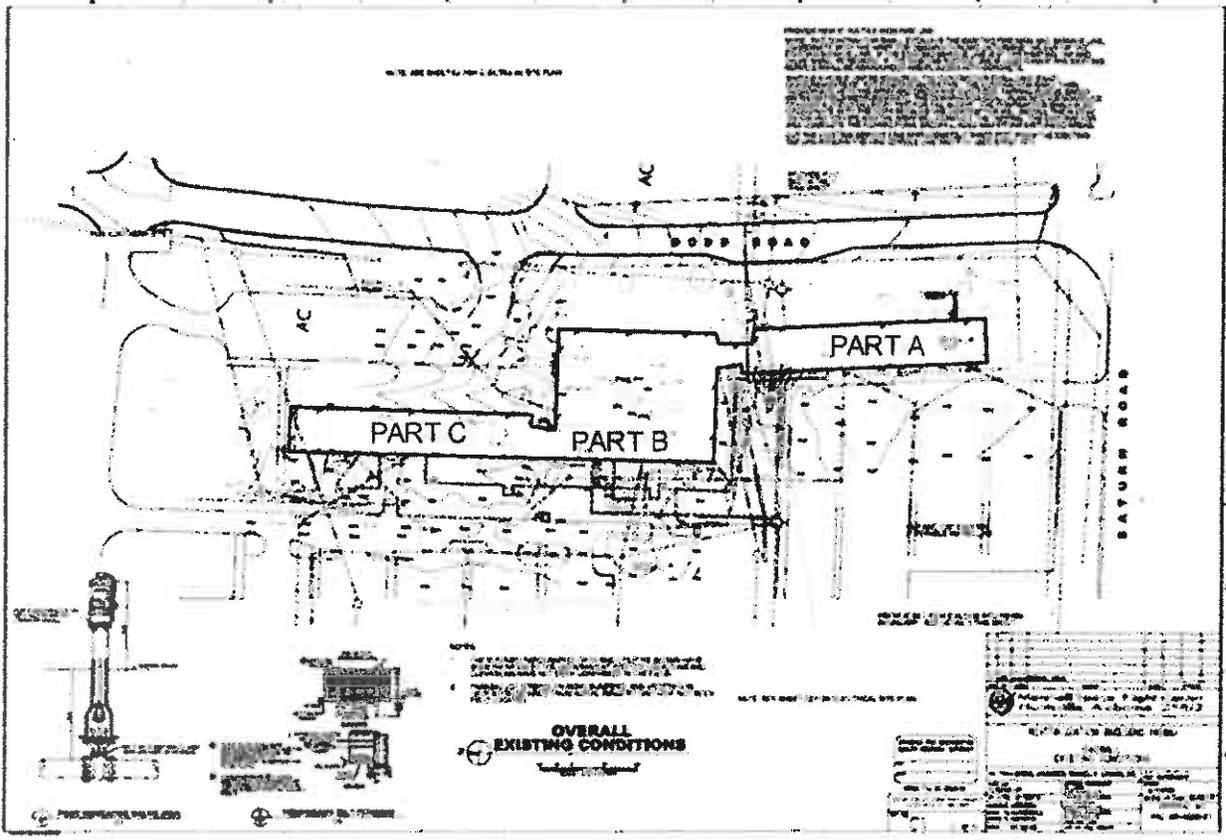
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NAME OF OFFEROR OR CONTRACTOR

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
5.	Any 9 x 9 Brown Floor Tiles				
6.	The Condensate Tank Insulation in Room 263				
7.	All Black Mastic Underneath the Brown Stair Tread				
8.	All Black Mastic Underneath the Entryway Non-Skid Pads				
9.	Any Pipe Insulation with Black Mastic and Any Hard Elbows				
10.	Any 9 x 9 Floor Tiles Below Carpet is Presumed to be Positive				
11.	Any 12 x 12 Floor Tiles Below Carpet is at Least Presumed to Contain Positive Mastic				

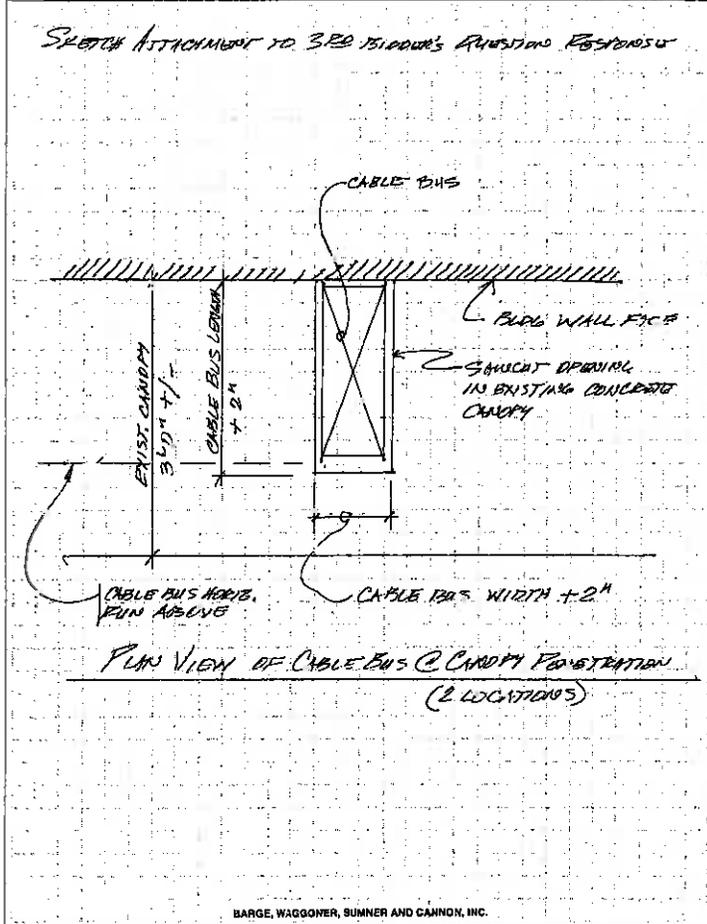
<p>As a result of this amendment, the hour and date for bids is not extended. Bids are still due on Wednesday, July 3, 2013, at 2:00 P.M. time at the Huntsville-Madison County Chamber of Commerce located at 25 Church Street, Huntsville, AL 35810.</p> <p>INCO TERMS 2: Destination</p>					

IFB NNM13ZPS003E, Amendment 1
Drawing for Question 1



IFB NNM13ZPS003E, Amendment 1 Drawing for Question 3

BY *CS* DATE *2/8/13* SUBJECT *CABLE BUS CANOPY PENETRATION* SHEET NO. *1* OF *1*
 CHECK BY _____ DATE _____ JOB NO. *33365-52*



IFB NNM13ZPS003E, Amendment 1

BWSC Asbestos Survey, Building 4666

1.0 Asbestos Inspection

Barge, Waggoner Summer & Cannon performed an asbestos survey for building 4666 (the Building) at the George C. Marshall Space Flight Center in Huntsville, Alabama on April 5, 2012. As part of this survey, the three interior floors and an outside window pane of the Building were sampled for potential asbestos containing building materials (ACBM). The basement area and outer roof of the Building were not sampled.

A visual inspection was conducted in rooms where access was allowed. Each floor is considered a functional space and samples were collected from various locations within the spaces, due to homogeneity of building materials present. A total of twenty-four asbestos samples were collected and analyzed as possible ACBM. The sampled material consists of floor and ceiling tiles, black mastic, pipe insulation, various wall plasters, outside window caulking and the old roof of the Building that has been covered over by a new elevated roof system. Polarized Light Microscopy (PLM) analysis was utilized in order to determine if the samples were ACBM.

2.0 Asbestos Survey Findings

The ACBM inspection was performed in accordance with the Environmental Protection Agency regulation 40 CFR 61 - National Emissions Standards for Hazardous Air Pollutants (NESHAPS) as well as 40 CFR 763 - Asbestos Hazard Emergency Response Act (AHERA) Protocol. The visual inspection estimated twenty-five fire doors that are assumed to contain ACBM.

Twenty-three interior samples and one exterior sample were collected during the inspection and analyzed as potential ACBM. In the interior, there were five 9" X 9" floor tile samples found to contain asbestos while all other samples were not ACBM. See Table below for samples determined to be ACBM.

Table

Sample No.	Material Type	Functional Space	Quantity (Estimated)	NESHAP Class	% Asbestos and Type	Condition
NA-1-001	Blue floor tile (9" X 9")	1 st Floor	8,000 sq ft	Cat 1	2% Chrysotile	Good
NA-2-002	Green/blue floor tile (9" X 9") and mastic	2 nd Floor	8,500 sq ft	Cat 1	2% Chrysotile 6%-Chrysotile	Good
NA-2-008	White floor tile (9" X 9") and mastic	2 nd Floor	10,000 sq ft	Cat 1	2% Chrysotile 6%-Chrysotile	Poor
NA-2-009	Brown floor tile (9" X 9") and mastic	2 nd Floor	9,500 sq ft	Cat 1	2% Chrysotile 4%-Chrysotile	Good
NA-3-002	Brown floor tile (9" X 9") and mastic	3 rd Floor	12,500 sq ft	Cat 1	2% Chrysotile 6%-Chrysotile	Good

Note: The 9" X 9" floor tile is covered with carpet, in most areas, on each of the three floors.

3.0 Conclusions and Recommendations

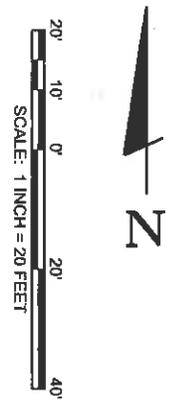
Following the inspection, five samples of 9" X 9" floor tile, and their related mastic material, were determined to be ACM. Due to the homogeneity of the floor tiles, and according to allowed protocol, floor tile samples did not have to be collected from every room or closet within the Building.

Since the sample results show the floor tiles are ACM, all of the 9" X 9" floor tiles on each of the three floors are subsequently considered to be ACM. Carpet covers the 9" X 9" floor tile in most areas on the three floors.

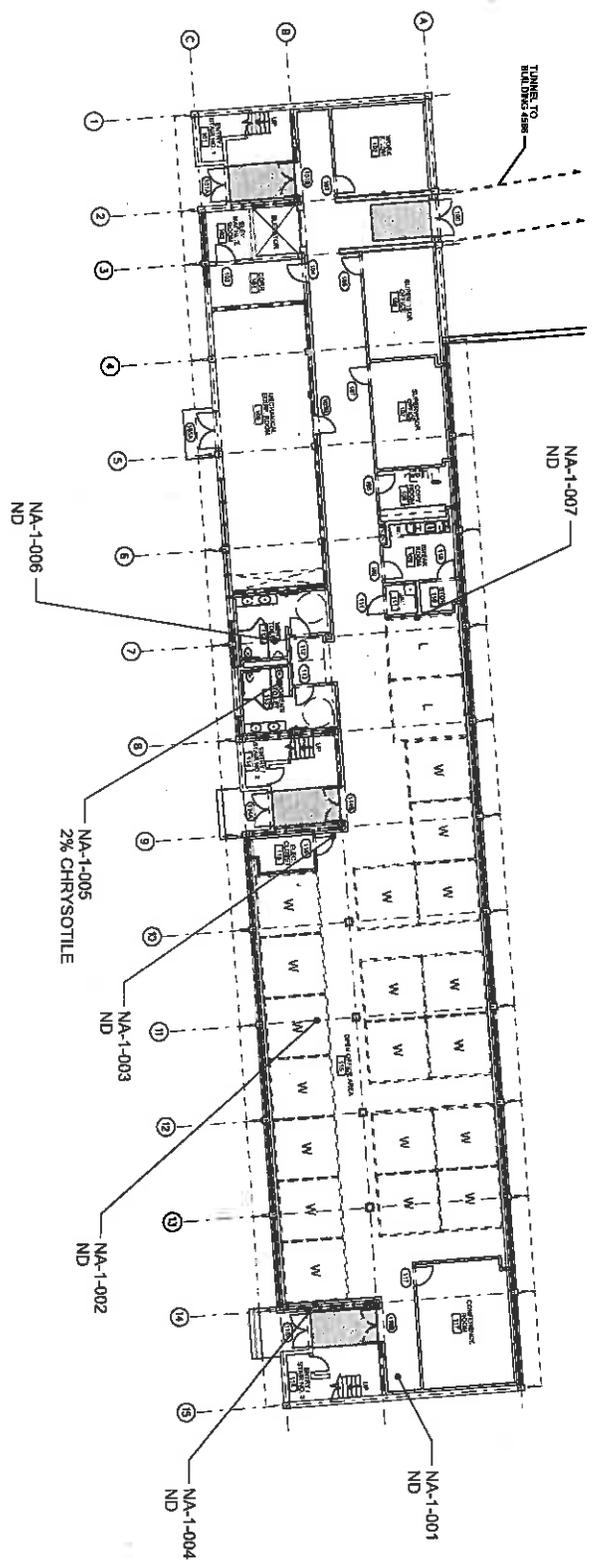
The fire doors are assumed to be ACM and should be part of the asbestos abatement plan for the Building. During any abatement activity, BWSC recommends daily air monitoring and then the performance of clearance air sampling at the conclusion of the asbestos work.

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FIRST FLOOR SAMPLE LOCATIONS



NOTE:
 FIRE DOORS ARE CONSIDERED
 TO BE ACM



LEGEND:
 ND - NOT DETECTED
 2% CHRYSOTILE - TYPE PERCENTAGE ASBESTOS

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DR.	CHK.	DATE	DESCRIPTION
MY	TRB	04-10-12	ISSUED FOR REVIEW

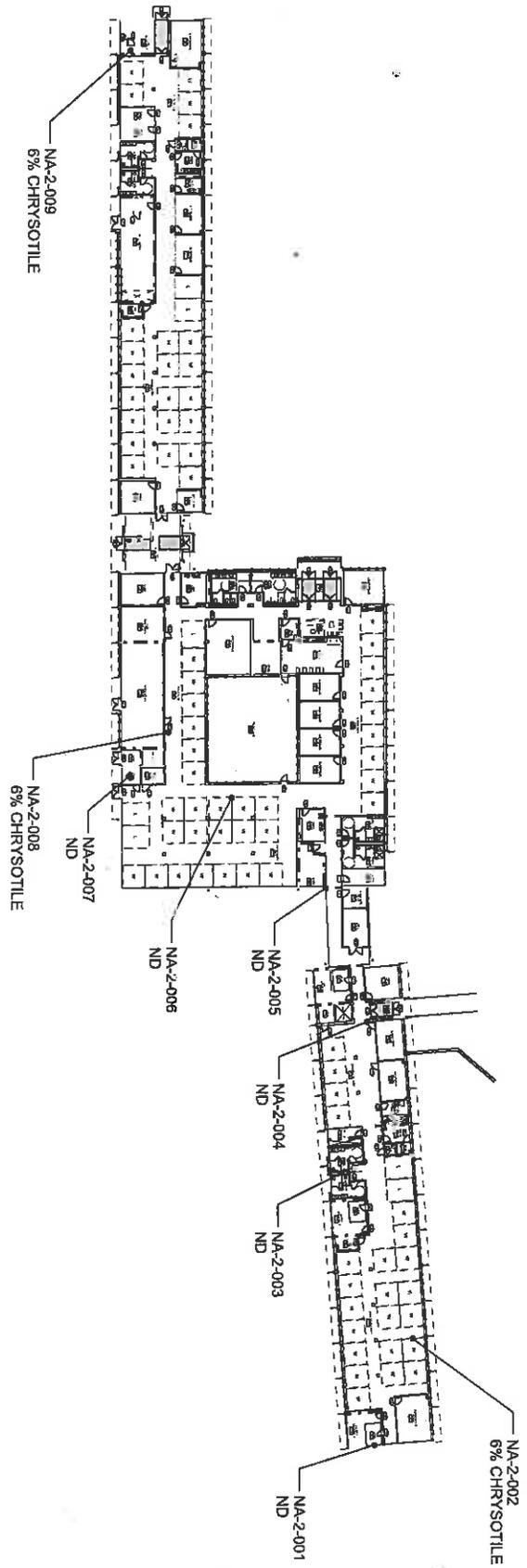
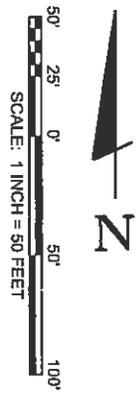
ASBESTOS SURVEY SAMPLE LOCATIONS 04-05-12
 MARSHALL SPACE FLIGHT CENTER
 HUNTSVILLE, ALABAMA 35812

BWSC BARGE WAGNER SUMNER & CANNON, INC.
 International Street, Suite 2000, Huntsville, Tennessee 35894
 PHONE: 256-521-6828 FAX: 256-521-6875

EX-1

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SECOND FLOOR SAMPLE LOCATIONS



NOTE:
 FIRE DOORS ARE CONSIDERED
 TO BE ACM

LEGEND:
 ND - NOT DETECTED
 2% CHRYSOTILE - PERCENTAGE ASBESTOS

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OR	CHK	DATE	DESCRIPTION
		04-10-12	ISSUED FOR REVIEW

ASBESTOS SURVEY SAMPLE LOCATIONS 04-05-12
 MARSHALL SPACE FLIGHT CENTER
 HUNTSVILLE, ALABAMA 35812

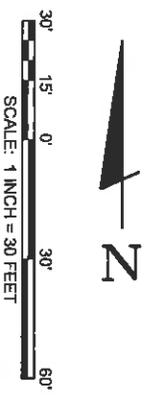
BWSC BARGE WADDNER SUMNER & CANNON, INC.
 25000 Old Springdale Road, Suite 200, Springdale, Tennessee 37083
 Phone: 615-551-6500 Fax: 615-551-6502

EX-2

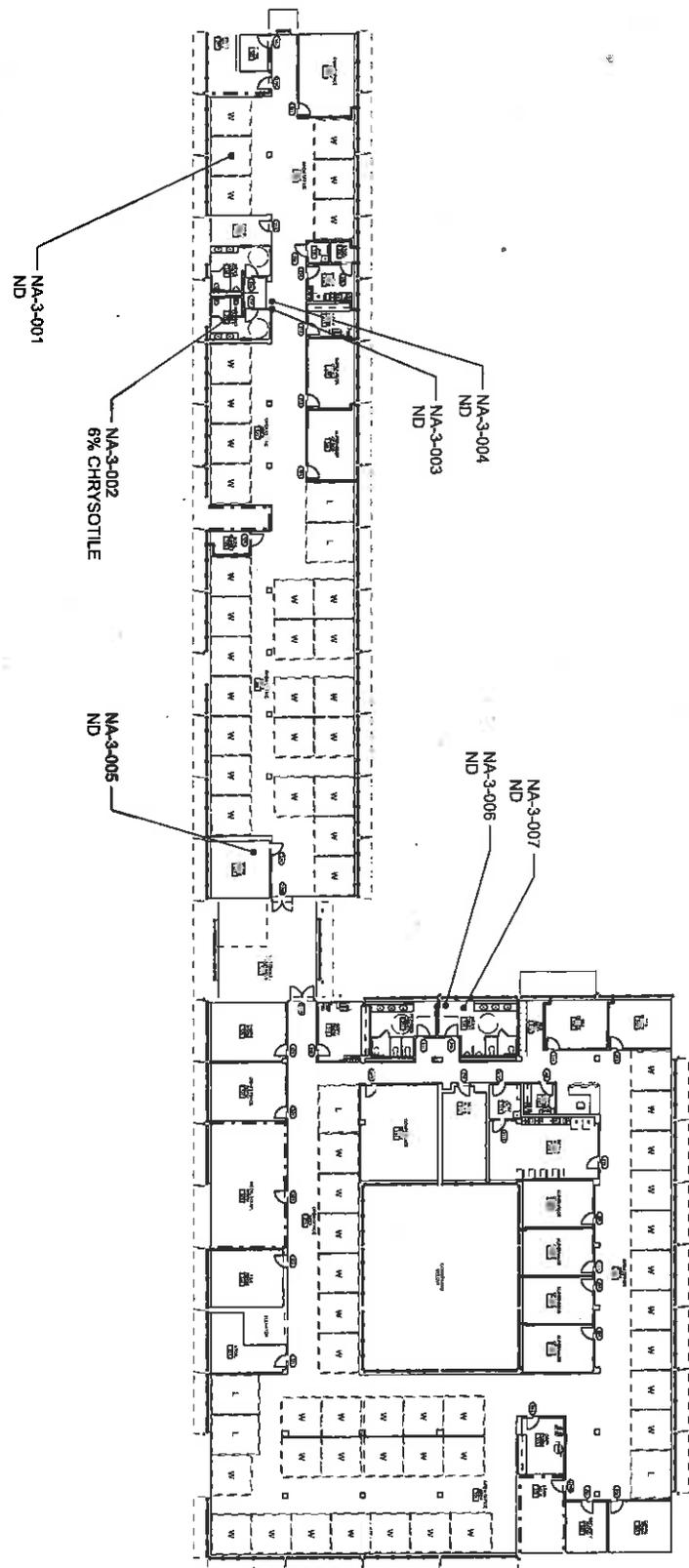
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THIRD FLOOR SAMPLE LOCATIONS



NOTE:
 FIRE DOORS ARE CONSIDERED
 TO BE ACM



LEGEND:
 ND - NOT DETECTED
 2% CHRYSOTILE - TYPE PERCENTAGE ASBESTOS

NO.	DATE	DESCRIPTION
1	04-10-12	ISSUED FOR REVIEW

ASBESTOS SURVEY SAMPLE LOCATIONS 04-05-12
 MARSHALL SPACE FLIGHT CENTER
 HUNTSVILLE, ALABAMA 35812

BWSC BARGE WADSWORTH SUMNER & CANNON, INC.
 10000 Green Lakes Rd, Huntsville, Tennessee 37228
 Phone: 256-737-0000 Fax: 256-737-0070

EX-3
 FILE NO. 2008-02

**POLARIZED LIGHT MICROSCOPY (PLM)
LABORATORY ANALYSIS REPORT**
(EPA/600/R-93/116 (June 1993))

CLIENT: BWSC

Date Received: 4-6-12

PROJECT: NASA Bldg 4666

Date Analyzed: 4-9-12

PROJECT LOCATION: Huntsville, AL

Date Reported: 4-9-12

ANALYST: Trey Lewis

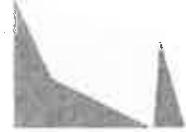


Sample Number	Location	Material Description	Binder (Non-Fibrous) Material	Non-Asbestos Fiber	Asbestos Type & Percent
NA-1-001	1st Floor Hallway	2x4 Ceiling Tile	20	15-Glass 65-Cellulose	None Detected
NA-1-002	Room 124	Drywall	90	10- Cellulose	None Detected
NA-1-003	Room 120	Orange Pipe Insulation	None Detected	100-Glass	None Detected
		Foil Outer Cover	60	40- Cellulose	None Detected
NA-1-004	Room 128	Concrete	100	None Detected	None Detected
		White Plaster Skim Coat	100	None Detected	None Detected
NA-1-005	Room 112	Blue 9x9 Floor Tile	98	None Detected	2-Chrysotile
		Yellow Mastic	100	None Detected	None Detected
NA-1-006	Room 110	Ceiling Plaster	100	None Detected	None Detected
NA-1-007	Room 111	Pink Insulation	None Detected	100-Glass	None Detected
		Tar Paper Cover	60	40-Cellulose	None Detected
NA-2-001	Room 203	2x4 Ceiling Tile	20	15 Glass 65-Cellulose	None Detected
NA-2-002	Room 202	Green 9x9 Floor Tile	98	None Detected	2-Chrysotile
		BlackMastic	94	None Detected	6- Chrysotile
		Blue 9x9 Floor Tile	98	None Detected	2-Chrysotile
		Black Mastic	94	None Detected	6-Chrysotile

Asbestos containing material (ACM) is defined as any material containing more than one percent asbestos.

Analysis was performed using "EPA/600/R-93/116 (June 1993), Test Method for the Determination of Asbestos in Bulk Building Materials."

FROST ENVIRONMENTAL SERVICES, LLC
 100 Alexander Blvd., Huntsville, Tennessee, 37401
 Phone: 256-265-1122 Fax: 256-265-1123



**POLARIZED LIGHT MICROSCOPY (PLM)
 LABORATORY ANALYSIS REPORT**
 (EPA/600/R-93/116 (June 1993))

CLIENT: BWSC

Date Received: 4-6-12

PROJECT: NASA Bldg 4666

Date Analyzed: 4-9-12

PROJECT LOCATION: Huntsville, AL

Date Reported: 4-9-12

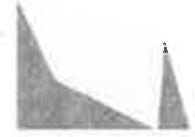
ANALYST: Trey Lewis

Sample Number	Location	Material Description	Binder (Non-Fibrous) Material	Non-Asbestos Fiber	Asbestos Type & Percent
NA-2-003	Room 214	Orange Pipe Insulation	None Detected	100-Glass	None Detected
		Foil Outer Cover	60	40- Cellulose	None Detected
NA-2-004	Hallway 2nd Floor	Wall Plaster	100	None Detected	None Detected
		White Skim Coat	100	None Detected	None Detected
NA-2-005	Hallway 2nd Floor	Wall Plaster	100	None Detected	None Detected
NA-2-006	Room 234-A	White 12x12 Floor Tile	100	None Detected	None Detected
		Yellow Mastic	100	None Detected	None Detected
NA-2-007	Room 269-A	Orange Pipe Insulation	None Detected	100-Glass	None Detected
		Cloth Outer Cover	10	90-Cellulose	None Detected
NA-2-008	Room 263	White 9x9 Floor Tile	98	None Detected	2-Chrysotile
		Black /Yellow Mastic	94	None Detected	6-Chrysotile
NA-2-009	Hallway 2nd Floor	Brown 9x9 Floor Tile	98	None Detected	2-Chrysotile
		Black Mastic	96	None Detected	4-Chrysotile
NA-3-001	Room 396	2x4 Ceiling Tile	20	15-Glass 65-Cellulose	None Detected
NA-3-002	Room 388	Brown 9x9 Floor Tile	98	None Detected	2-Chrysotile
		Black Mastic	94	None Detected	6-Chrysotile

Asbestos containing material (ACM) is defined as any material containing more than one percent asbestos.

Analysis was performed using "EPA/600/R-93/116 (June 1993), Test Method for the Determination of Asbestos in Bulk Building Materials."

PROST ENVIRONMENTAL SERVICES, LLC
 1000 1/2 West Hill Street, Huntsville, AL 35893
 256-265-7200 Fax: 256-265-7201



**POLARIZED LIGHT MICROSCOPY (PLM)
 LABORATORY ANALYSIS REPORT**
 (EPA/600/R-93/116 (June 1993))

CLIENT: BWSC

Date Received: 4-6-12

PROJECT: NASA Bldg 4666

Date Analyzed: 4-9-12

PROJECT LOCATION: Huntsville, AL

Date Reported: 4-9-12

ANALYST: Trey Lewis

Sample Number	Location	Material Description	Binder (Non-Fibrous) Material	Non-Asbestos Fiber	Asbestos Type & Percent
NA-3-003	Room 388	Roof Mastic	100	None Detected	None Detected
NA-3-004	Room 388	Yellow Insulation	None Detected	100-Glass	None Detected
NA-3-005	Room 372	Drywall	90	10-Cellulose	None Detected
NA-3-006	Room 359	Yellow Pipe Insulation	None Detected	100-Glass	None Detected
		Foil Outer Cover	60	40-Cellulose	None Detected
NA-3-007	Room 359	Yellow Pipe Insulation	None Detected	100-Glass	None Detected
		Foil Outer Cover	60	40-Cellulose	None Detected
NA-0-001	Outside window framing	White Window Caulk	100	None Detected	None Detected

Asbestos containing material (ACM) is defined as any material containing more than one percent asbestos.
 Analysis was performed using "EPA/600/R-93/116 (June 1993), Test Method for the Determination of Asbestos in Bulk Building Materials."

FROST ENVIRONMENTAL SERVICES, LLC

101 Ash Court, Hendersonville, Tennessee 37075
 (615) 562-2669 office • (615)-473-9047 cell • email support@frostenvironmental.com



1 of 2

CHAIN OF CUSTODY

PROJECT: NASA Bld. 4666 Date Collected: 4-5-12

1st - 3rd floors

PROJECT LOCATION: Huntsville Al. Date Received By Lab: _____

Turnaround Time Requested: ___ 2-3 Hour ___ Same Day ___ 24 Hour 2-3 Day

COLLECTED BY: Randy Bell / Jonathon Hendin COLLECTED BY SIGNATURE: Randy Bell

Sample Number	Date Collected	Location	Analysis Requested	Volume
NA-1-001	4-5-12	1 st Floor Hallway ^{2 by 4} Ceiling Tile	Asb	
NA-1-002	4-5-12	Room 124 Dry wall	Asb	
NA-1-003	4-5-12	Room 120 ^{Pipe insulation} above Drop ceiling	Asb	
NA-1-004	4-5-12	Room 128 Plaster/concrete wall	Asb	
NA-1-005	4-5-12	Room 112 Floor Tile ^{Blue} 9 by 9	Asb	
NA-1-006	4-5-12	Room 110 Plaster on ceiling	Asb	
NA-1-007	4-5-12	Room 111 ^{Tile} ceiling insulation	Asb	
NA-2-001	4-5-12	Room 203 ^{2 by 4} ceiling tile	Asb	
NA-2-002	4-5-12	Room 202 Floor Tile 9 by 9 Green/blue	Asb	
NA-2-003	4-5-12	Room 214 Pipe insulation in water line	Asb	
NA-2-004	4-5-12	Hallway 2nd Wall plaster	Asb	
NA-2-005	4-5-12	Hallway 2nd Wall plaster	Asb	
NA-2-006	4-5-12	Room 234-A Floor tile 1 by 1 White	Asb	
NA-2-007	4-5-12	Room 269-A Pipe insulation in line	Asb	
NA-2-008	4-5-12	Room 263 Floor tile under carpet 9 by 9	Asb	
NA-2-009	4-5-12	Hallway 2nd Floor Tile 9 by 9 Brown	Asb	

RECEIVED BY: [Signature]
 DATE: 4-6-12

FROST ENVIRONMENTAL SERVICES, LLC

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 (615) 562-2669 office • (615)-473-9047 cell • email support@frostenvironmental.com



2 of 2

CHAIN OF CUSTODY

PROJECT: NASA Bld. 4666 Date Collected: 4-5-12
1st - 3rd floors

PROJECT LOCATION: Huntsville AL Date Received By Lab: _____

Turnaround Time Requested: 2-3 Hour Same Day 24 Hour 2-3 Day

COLLECTED BY: Randy Bell / Jonathan Herd COLLECTED BY SIGNATURE: Randy Bell

Sample Number	Date Collected	Location	Analysis Requested	Volume
NA-3-001	4-5-12	Room 396 ceiling tile 2 by 4 white	Asb	
NA-3-002	4-5-12	Room 388 floor tile 9 by 9 Brown	Asb	
NA-3-003	4-5-12	Room 388 old roof mastic	Asb	
NA-3-004	4-5-12	Room 388 insulation	Asb	
NA-3-005	4-5-12	Room 372 - Drywall	Asb	
NA-3-006	4-5-12	Room 359 2in pipe insulation behind wall	Asb	
NA-3-007	4-5-12	Room 359 1in pipe insulation behind wall	Asb	
NA-D-001	4-5-12	Outside window caulking	Asb	

RECEIVED BY: [Signature]
 DATE: 4-6-12