## MISSISSIPPI ASBESTOS DEMOLITION/RENOVATION NOTIFICATION FORM

Mail notification to: MDEQ Asbestos and Lead	Branch, 515 E.	Amite St	reet, Jackson, MS	39201
MDEQ Use Only: Postmark (ma Email Mail Hand Delivery Emailed 10		Date Re 10-2	ceived 21-2024	Al Number 75184
I. Type of Notification (O=Original R=Revised C=Canceled A=	Annual) O			
II. TYPE OF OPERATION (D=Demo O= Ordered Demo R=Re	novation E=Emer. Re	enovation)	D	
III. FACILITY DESCRIPTION (Include building name, number a	and floor or room num	nber)		
Bldg. Name: Naval Air Station Meridian				sai
Address PWD Meridian - 229 Allen Road				
<sub>City:</sub> Meridian	State: MS		Zip: 39309	County: Lauderdale
Site Location: Bldg. 205 and Bldg. 206 - 1st & 2nd f	loor mechanical	rooms	Tel:	
Building Size B206- 24,456sf / B206- 22,109sf	# of Floors: 2		Age in Years: 63	
Present Use: Military	Prior Use: Militar	у		
IV. FACILITY INFORMATION (Identify owner, asbestos remov	al contractor, and oth	er operato	и)	
OWNER NAME: USN - Meridian NAS				
Address: PWD Meridian 229 Allen Road, Bldg. 427	7			
<sub>City:</sub> Meridian	State: MS		<sub>Zip:</sub> 39309	
Contact: PAO			<sub>Tel:</sub> 601-679-221	11
ASBESTOS REMOVAL CONTRACTOR: Cross Environme	ental Services, I	nc.	·	
Address: 39646 Fig Avenue (PO Box 1299, Crystal Spring	gs, FL 33524) Lo	cal office	: 753 Lovejoy Rd. N	W, Fort Walton Beach, FL 32548
<sub>City:</sub> Zephyrhills	State: FL		zip: 33540	
Contact: Brandon Bishop / Clyde Biston			Tel: 850-864-220	00
Certification Number: ABC00002428		Expiratio	n Date: 02/09/2	025
OTHER OPERATOR: same as contractor			· · · · · · · · · · · · · · · · · · ·	
Address:				
City:	State:		Zip:	
Contact:			Tel:	
V. WAS SITE INSPECTED TO DETERMINE PRESENCE OF	ASBESTOS? (Yes/N	<sub>o):</sub> Yes		
WAS ASBESTOS PRESENT? (Yes/No): Yes			on Date: 12/20/202	3
Inspector: Rankin/Hirsch Older: Rankin/Hir Certification	sch - TBD n Number: ABI- 00	006853	(Mead) Rankin/Hir Expiration D	sch - TBD ate: 07/09/2015 (Mead)
VI. SUSPECT MATERIALS SAMPLED AND PROCEDURES I	JSED TO DETECT T	HE PRES	ENCE OF ASBESTOS	S MATERIAL:
All material sampled using PLM. See attached	ed report			
VII. QUANTITY OF RACM TO BE REMOVED: All Cat 1, NF: B205: 20 LF r	ed fire stop and 75	5 LF vibra	ation dampeners; B2	206 - 40 LF vibration dampeners
Pipes (LN FT): N/A Surface Area (S				ponents (CU FT): N/A
VIII. QUANTITY OF NONFRIABLE ASBESTOS NOT REMOV			interest doiny our	
Category I: N/A		Categor	vil: N/A	
IX. SCHEDULED DATES ASBESTOS REMOVAL (MM/DD/YY	) Start: 10/28/24			Complete: 11/01/24
X. SCHEDULED DATES DEMO/RENOVATION (MM/DD/YY) S				<sub>Complete:</sub> 01/04/25

XI. DESCRIPTION OF PLANNED DEMOLITION OR RENOVA	TION WORK, AND METHO	D(S) TO BE USED:			
Asbestos removal by strip and remove, v					
XII. DESCRIPTION OF WORK PRACTICES AND ENGINEERI DEMOLITION OR RENOVATION SITE:	NG CONTROLS TO BE USE	D TO PREVENT EMISSIONS OF ASBESTOS AT THE			
1-1/2 inch fire hose for du	st control.				
XIII. WASTE TRANSPORTER #1					
Name: Cross Environmental Services, Inc.					
Address: 753 Lovejoy Rd. NW					
<sub>City:</sub> Fort Walton Beach	State: FL	Zip: 32548			
Contact Person, Brandon Bishop		<sub>Tel:</sub> 850-864-2200			
WASTE TRANSPORTER #2					
Name:					
Address:					
City	State:	Zip:			
Contact Person		Tel:			
XIV. WASTE DISPOSAL SITE					
Nanie	: Waste Management	Pine Ridge Landfill			
Address: JWC: 1400 Willow Lake Rd. / WM-Pine Ridge: 520 Murphy Rd.					
City         Toosuba         Meridian         State: MS         Zip. 39364         39301           Toosuba         Contact         Contact         (601) 603         7713         (251) 593         0010					
Contact Person Terry Davidson / Holley Gordon Tel (601) 693-7713 / (251) 583-0010					
XV. IF DEMOLITION ORDERED BY A GOVERNMENT AGENCY, PLEASE IDENTIFY THE AGENCY BELOW:					
Name: N/A Title:					
Authority:					
Date of Order (MM/DD/YY): Date Ordered to Begin (MM/DD/YY):					
XVI. FOR EMERGENCY RENOVATIONS: N/A					
Date and Hour of Emergency (MM/DD/YY):					
Description of the sudden unexpected event:					
Explanation of how the event caused unsafe conditions or would cause equipment damage or an unreasonable financial burden:					
XVII. DESCRIPTION OF PROCEDURES TO BE FOLLOWED NONFRIABLE ASTESTOS MATERIAL BECOMES CRUMBLE	IN THE EVENT THAT UNEX	PECTED ASBESTOS IS FOUND OR PREVIOUSLY CED TO POWDER:			
Stop work, wet RACM, notify MS DEQ imn					
XVIII. I CERTIFY THAT AN INDIVIDUAL TRAINED IN THE PR ONSITE DURING THE DEMOLITION OR RENOVATION, AND THIS PERSON WILL BE AVAILABLE FOR INSPECTION DU	<b>EVIDENCE THAT THE REC</b>	UIRED TRAINING HAS BEEN ACCOMPLISHED BY			
Brandon Bishop Type or Print Name (Signature of C	Mer/Operator)	(Date)			
XIX. I CERTIFY THAT THE ABOVE INFORMATION IS COBS		(Date)			
Brandon Bishop	PY	10-14-24			
Type or Print Name (Signature of	Omer/Operator)	(Date)			

## CNIC DEMO OF VARIOUS FACILITIES NAS Meridian, MS

## December 20, 2023



## Specifications – Volume 2 Hazmat Reports Final Submittal

# eProjects Work Order No.: 1755531



## BUILDING 205 - BEQ - SURVEY SUMMARY

#### BUILDING DESCRIPTION

Building 205 is a two-story, 24,456-square-foot building constructed in 1961. The building is located at NAS Meridian main station and is a BEQ. The building was abandoned at the time of the survey.

## ASBESTOS FINDINGS AND CONCLUSIONS

The survey team assigned ten (10) homogeneous materials of suspected ACM at this building. Twenty-eight (28) samples were collected (excluding duplicate samples), none of which were identified as ACM. Two materials were not sampled and are assumed to be ACM:

- Red firestop (HM-9): This material could not be sampled because it was inaccessible.
- Vibration dampeners (HM-10): These materials could not be sampled because of risk to the integrity of the units.

The attached figures show the samples and homogeneous materials that were identified through laboratory analysis as ACM and/or non-ACM for the identified sampling locations as well as assumed materials.

#### RECOMMENDATIONS

It is recommended that the red firestop (HM-9) and vibration dampeners (HM-10) be considered ACM until laboratory analysis proves otherwise. They are in good condition and currently do not pose a hazard. However, it is recommended that if a material becomes damaged and friable, it should be repaired or removed. Removal of this ACM is considered Class II OSHA work, and repair is considered Class III OSHA work. Both Class II and Class III OSHA work must be performed by AHERA (or equivalent) trained workers. It is recommended that this building be included in the installation Asbestos Management Program until the identified ACM has been removed.

In addition, older building materials that may potentially be ACM could be concealed beneath newer material and/or were inaccessible during the survey. It is recommended that these materials, if encountered, be sampled and analyzed for asbestos before being disturbed by renovation or demolition activities.

#### REMOVAL COST ESTIMATE

### TOTAL COST (ALL ACM)

	Low	High
1. Mobilization	\$2,000	\$4,000
2. Preparation of Asbestos Containment Area	\$0	\$0
3. Bulk Asbestos Removal	<\$1,000	\$1,000
4. OSHA (and Clearance) Testing	\$0	\$0
5. Decontamination of Containment	\$0	\$0
6. Asbestos Waste Packaging, Handling, and Disposal	\$0	\$0
Total	\$2,500	\$5,000

#### RED FIRE STOP (HM-9)

		Low	High
1. Cost Components 1, 3, 6, 7, 8		\$1,000	\$2,000
2. Bulk Asbestos Removal		<\$1,000	<\$1,000
	Total	\$1,500	\$3,000

#### VIBRATION DAMPENERS (HM-10)

		Low	High
1. Cost Components 1, 3, 6, 7, 8		\$1,000	\$2,000
2. Bulk Asbestos Removal		<\$1,000	<\$1,000
	Total	\$1,500	\$3,000

Appendix A: Asbestos Survey Reports

			Asbestos li	nventory S	Asbestos Inventory Summary – NASM 205				
Building No.:	205	Inspector:			Rankin/Hirsch		Survey Date:	1/25/23	53
Building Name:		BEQ		Build	Building Description:	Vaca	ant/Abandor	Vacant/Abandoned Barracks	
Homogeneous Material No.	Sample Description	Condition	Friability	Quantity	Sample ID	Location	Sample Layers	Asbestos Content	Figure
	Drywall/Joint Compound	Good	RF	NA	NASM-B0205-A-001	Room 121	2	NAD (Joint Compound) NAD	205-1W
5	Drywall/Joint Compound	Good	ЧЧ	NA	NASM-B0205-A-002	Room 122	-	NAD	205-1W
-	Drywall/Joint Compound	Good	μN	NA	NASM-B0205-A-003	Room 118	7	NAD (Joint Compound) NAD (Drywall)	205-1W
-	Drywall/Joint Compound	Good	ЧN	NA	NASM-B0205-A-004	Room117	N	NAD (Joint Compound) NAD (Drywall)	205-1W
-	Drywall/Joint Compound	Good	Ц	NA	NASM-B0205-A-005	2nd Floor Lounge	n	NAD (Joint Compound) NAD (Tape) NAD (Drywall)	205-2W

CAFW-3009-0895-0007

Appendix A: Asbestos Survey Reports

			Asbestos II	nventory S	Asbestos Inventory Summary - NASM 205				
Building No.:	205	Inspector:			Rankin/Hirsch		Survey Date:	1/25/23	3
Building Name:	ш	BEQ		Build	Building Description:	Vaca	ant/Abandor	Vacant/Abandoned Barracks	
Homogeneous Material No.	Sample Description	Condition	Friability	Quantity	Sample ID	Location	Sample Layers	Asbestos Content	Figure
	Down					Local Flace		NAD (Joint Compound)	
-	Compound	Good	Ч	AN	NASM-B0205-A-006	Zommon Area	ო	NAD (Tape)	205-2W
								NAD (Drywall)	
								NAD (Joint	
	Drvwall/Joint							Compound)	
<del>-</del>	Compound	Good	ЧZ	AN	NASM-B0205-A-007	Room 219	ო	NAD (Tane)	205-2W
								NAD NAD	
								(Drywall)	
								NAD	
2	12" Gray Mottled Floor Tile/Mastic	Good	ЦZ	AN	NASM-B0205-A-008	Room 122	0	(Floor Tile)	205-1F
								(Mastic)	
6	12" Gray Mottled	Cond	NE	VIV	MACM BODGE A DOD		c	NAD (Floor Tile)	10,100
ı	Floor Tile/Mastic	0000	ž	<u>k</u>	RON-Y-COZOG-INICHNI	K0011 219	N	NAD	205-2F
								(Mastic)	
~	12" Gray Mottled	Pund	ЦN	MA	NASM BOOR A 010	Doom 404	c	NAD (Floor Tile)	17 100
ı	Floor Tile/Mastic	2000	E				v	NAD	41-cuz
								(Mastic)	

CAFW-3009-0895-0007

Appendix A: Asbestos Survey Reports

			Asbestos II	nventory S	Asbestos Inventory Summary – NASM 205				
Building No.:	205	Inspector:			Rankin/Hirsch		Survey Date:	1/25/23	3
Building Name:	ш	BEQ		Build	Building Description:	Vaca	ant/Abandon	Vacant/Abandoned Barracks	
Homogeneous Material No.	Sample Description	Condition	Friability	Quantity	Sample ID	Location	Sample Layers	Asbestos Content	Figure
0	12" Gray Mottled Floor Tile/Mastic	Good	ЧN	NA	NASM-B0205-D-010	Room 121	3	NAD (Floor Tile) NAD (Mastic)	205-1F
ю	4" Beige Covebase Mastic	Good	NF	NA	NASM-B0205-A-011	Room 121	2	NAD (Covebase) NAD (Mastic)	205-1F
ю	4" Beige Covebase Mastic	Good	ЧN	NA	NASM-B0205-A-012	Room 122	7	NAD (Covebase) NAD (Mastic)	205-1F
m	4" Beige Covebase Mastic	Good	ЧN	AN	NASM-B0205-A-013	Room 219	N	NAD (Covebase) NAD (Mastic)	205-2F
4	2' x 2' Ceiling Panels with Pinholes	Good	NF	AN	NASM-B0205-A-014	Room 121	-	NAD	205-2C
4	2' x 2' Ceiling Panels with Pinholes	Good	NF	NA	NASM-B0205-A-015	Room 122	-	NAD	205-2C
4	2' x 2' Ceiling Panels with Pinholes	Good	NF	NA	NASM-B0205-A-016	Room 219	-	NAD	205-2C
ъ	6" Beige Covebase Mastic	Good	ЧL	AN	NASM-B0205-A-017	2nd Floor Stairwell	N	NAD (Covebase) NAD (Mastic)	205-2F

CAFW-3009-0895-0007

Appendix A: Asbestos Survey Reports

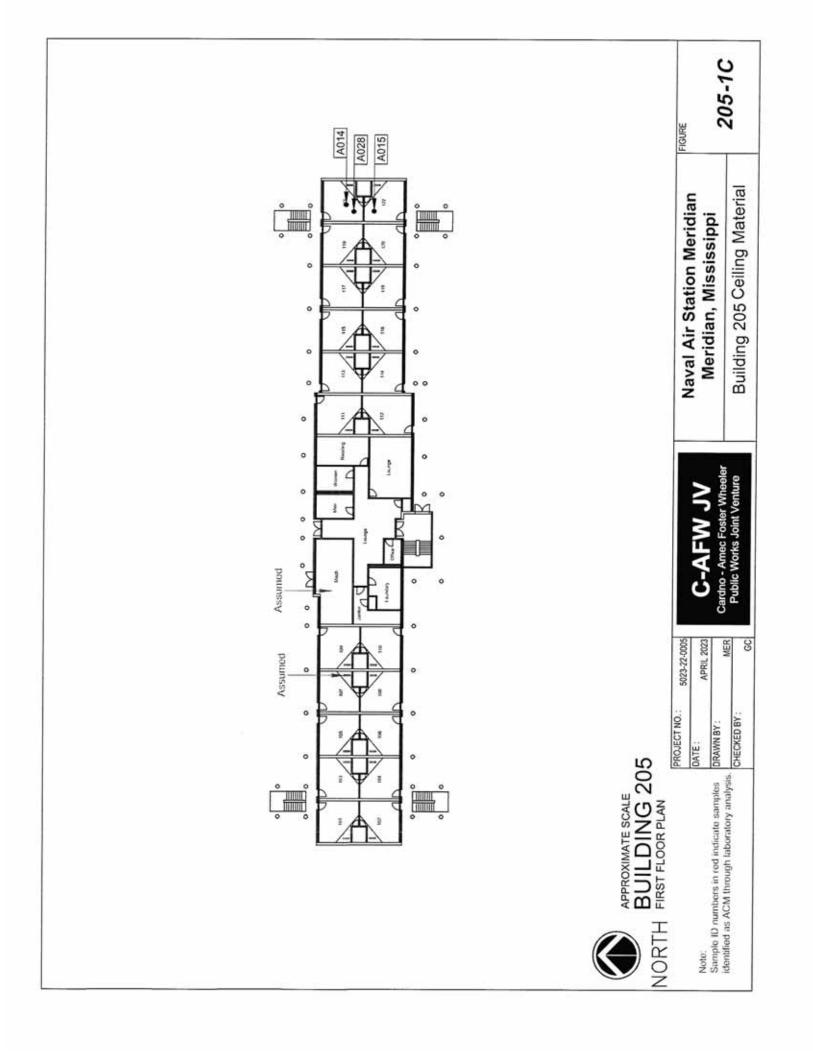
Building No.: Building Name: Homogeneous Material No. 5 6" E	ebase	Inspector:			Rankin/Hirsch		Survey	1/25/23	53
							- I Jartes	710711	
	Sample Description Beige Covebase	BEQ		Build	Building Description:	Vaca	ant/Abandon	Vacant/Abandoned Barracks	
	<b>Beige Covebase</b>	Condition	Friability	Quantity	Sample ID	Location	Sample Layers	Asbestos Content	Figure
110	Mastic	Good	NF	NA	NASM-B0205-A-018	2nd Floor Quarterdeck	2	NAD (Covebase) NAD (Mastic)	205-2F
2	6" Beige Covebase Mastic	Good	NF	NA	NASM-B0205-A-019	2nd Floor TV Lounge	3	NAD (Covebase) NAD (Mastic)	205-2F
9	Gray Expansion Joint Caulk	Good	NF	NA	NASM-B0205-A-020	2nd Floor SW End	-	NAD	205-2E
0 9	Gray Expansion Joint Caulk	Good	NF	NA	NASM-B0205-D-020	2nd Floor SW End	-	NAD	205-2E
ق ب	Gray Expansion Joint Caulk	Good	NF	NA	NASM-B0205-A-021	2nd Floor SE End		NAD	205-2E
ق ه	Gray Expansion Joint Caulk	Good	NF	NA	NASM-B0205-A-022	2nd Floor NE End	-	NAD	205-2E
7 Wh	White Seam Caulk	Good	NF	NA	NASM-B0205-A-023	2nd Floor S Middle	-	NAD	205-2E
7 Wh	White Seam Caulk	Good	ΝF	AN	NASM-B0205-A-024	Outside Room 121	-	NAD	205-1E
7 Wh	White Seam Caulk	Good	NF	AN	NASM-B0205-A-025	Outside Room 122	-	NAD	205-1E
8 Wh	White Duct Mastic	Good	NF	AN	NASM-B0205-A-026	2nd Floor Housekeeping	-	NAD	205-2C
8 Wh	White Duct Mastic	Good	ЧĽ	AN	NASM-B0205-A-027	2nd Floor Housekeeping	۲	NAD	205-2C
8 Wh	White Duct Mastic	Good	NF	NA	NASM-B0205-A-028	Room 121	-	NAD	205-1C

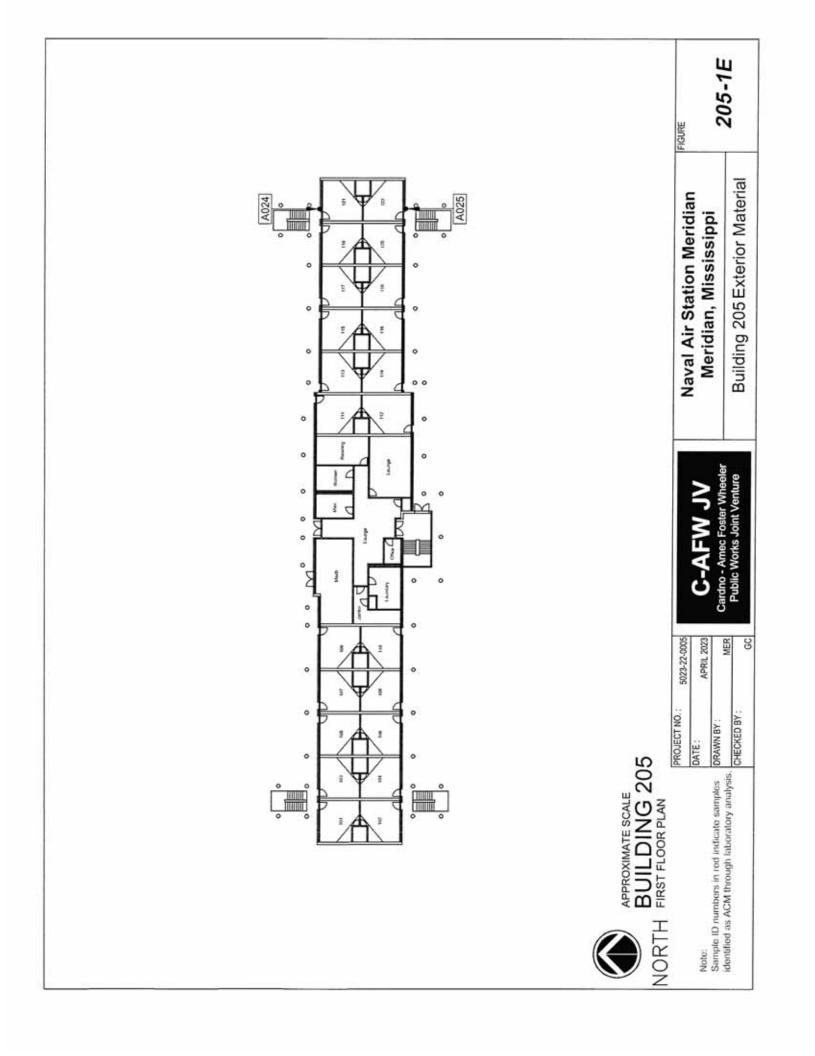
Appendix A: Asbestos Survey Reports

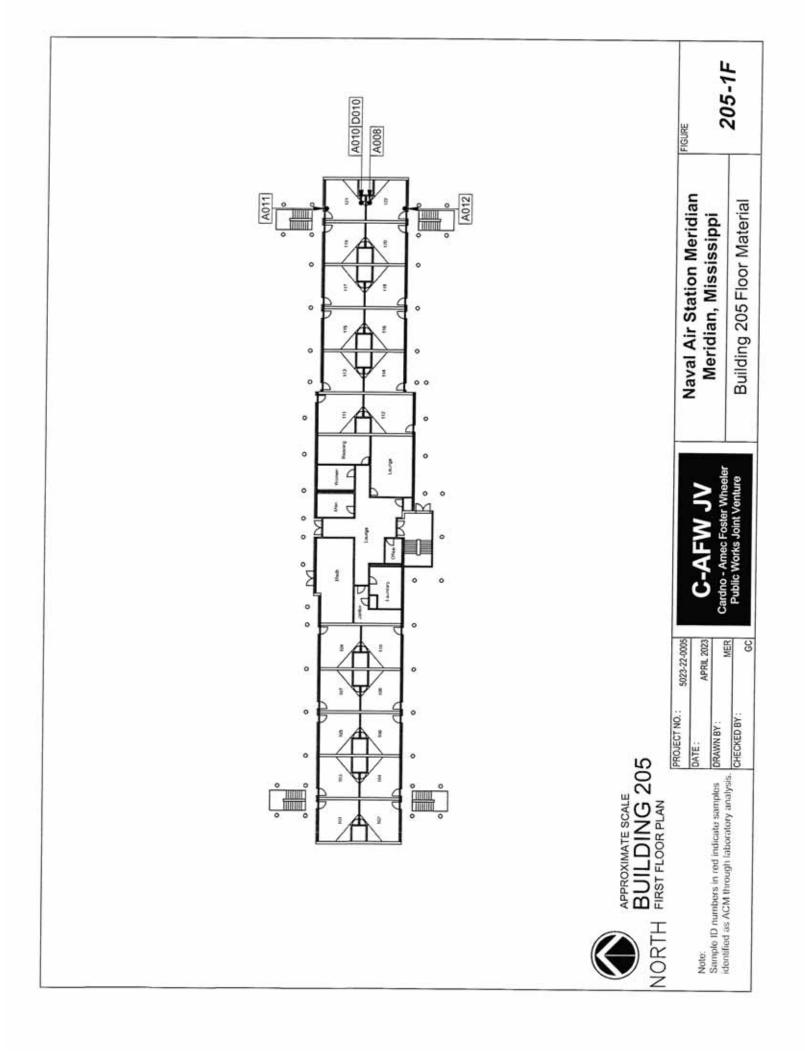
			Asbestos II	nventory Su	Asbestos Inventory Summary – NASM 205	5			
Building No.:	205	Inspector:			Rankin/Hirsch		Survey Date:	1/25/23	23
Building Name:		BEQ		Buildi	Building Description:	Vac	Vacant/Abandoned Barracks	ed Barracks	
Homogeneous Material No.	Sample Description	Condition	Condition Friability	Quantity	Sample ID	Location	Sample Layers	Asbestos Content	Figure
თ	Red Fire Stop	Good	ЧЧ	20 LF	Assumed		1st and 2nd Floor Mech Rooms	Assumed	
10	Vibration Dampeners	Good	ЧN	75 LF	Assumed		1st and 2nd Floor Mech Rooms	Assumed	

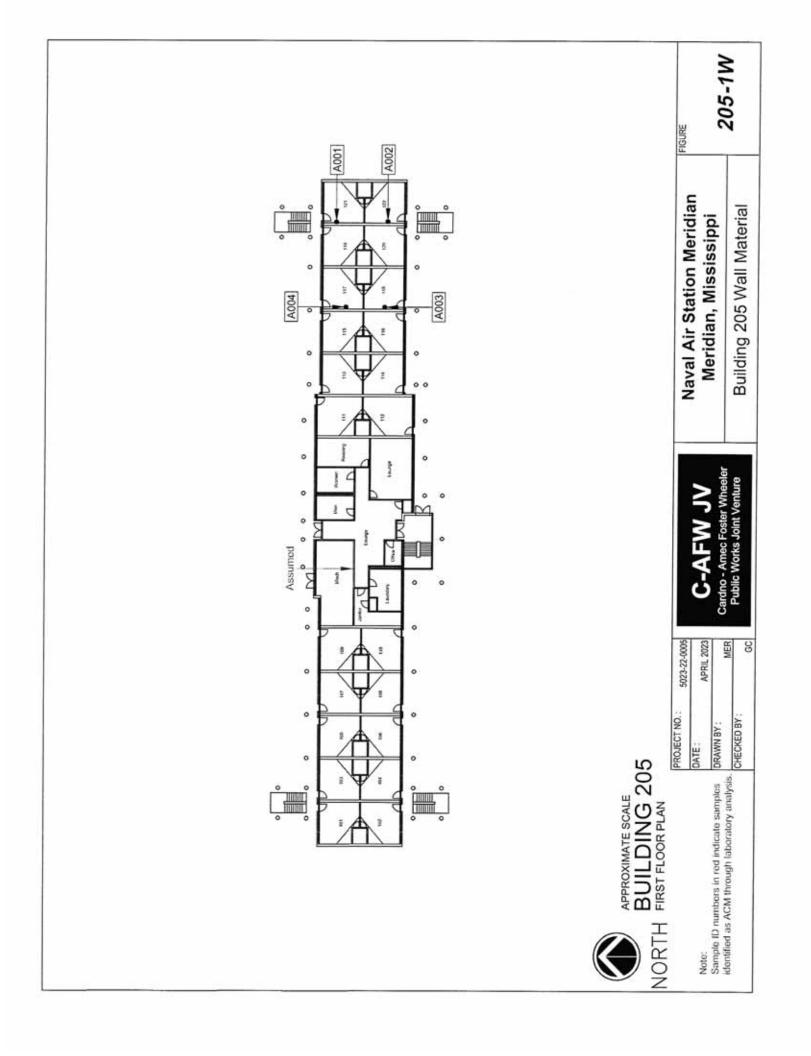
These abbreviations are used throughout Appendix A. < = less than; ' = foot (feet); " = inch(es); E = east; F = friable; ft2 = square foot (feet); HVAC = heating, ventilation, and air conditioning; ID = identification; I = intact; LF = linear foot (feet); N = north; NA = not applicable; NAD = no asbestos detected; NASM = Naval Air Station Meridian; NE = northeast; NF = non-friable; NW = northwest; S = south; SE = southeast; SW = southwest; TSI = thermal system insulation; W = west

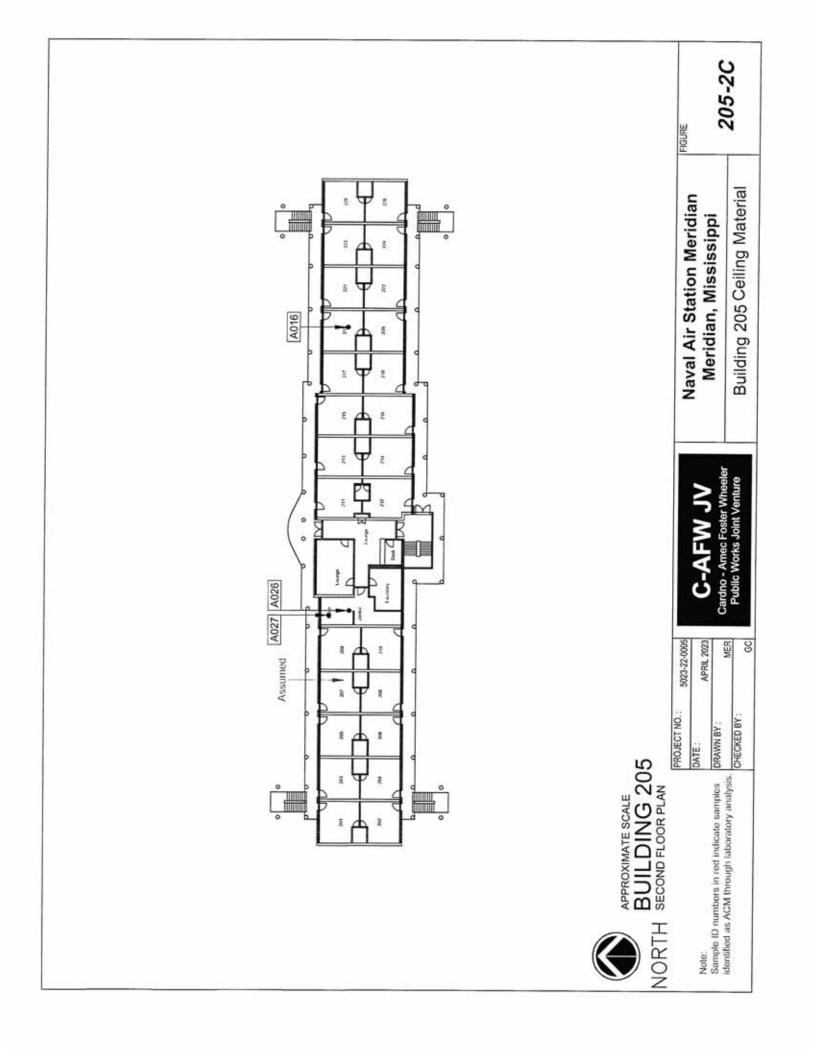
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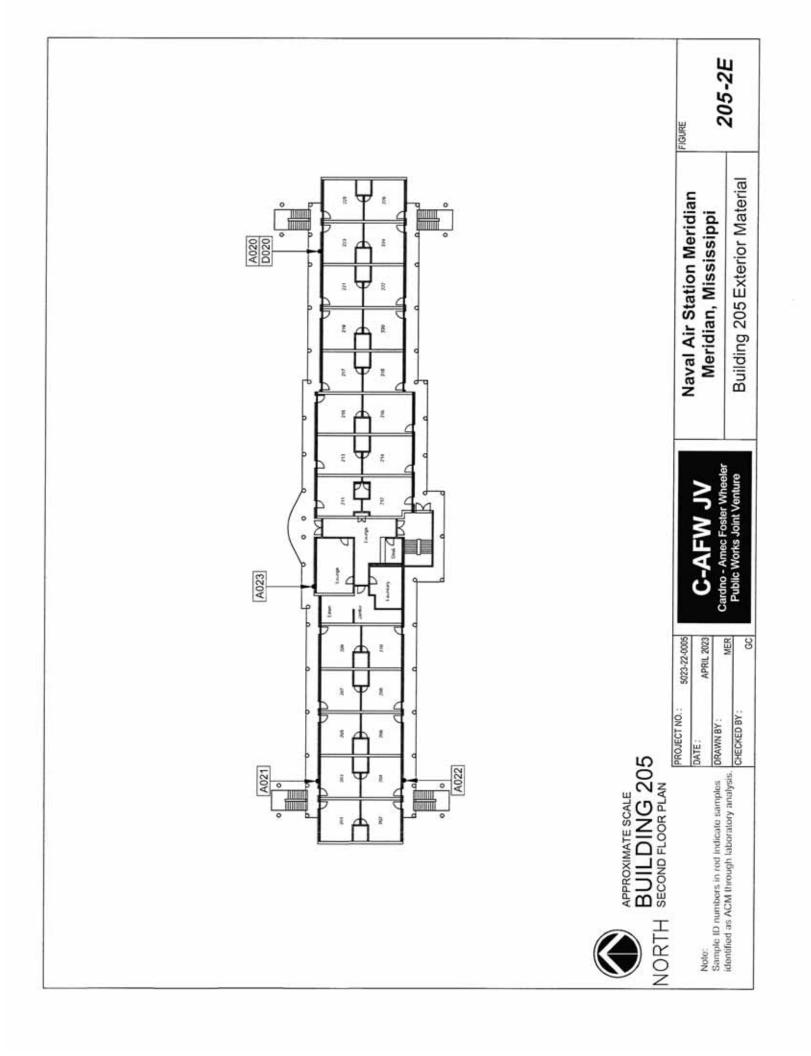


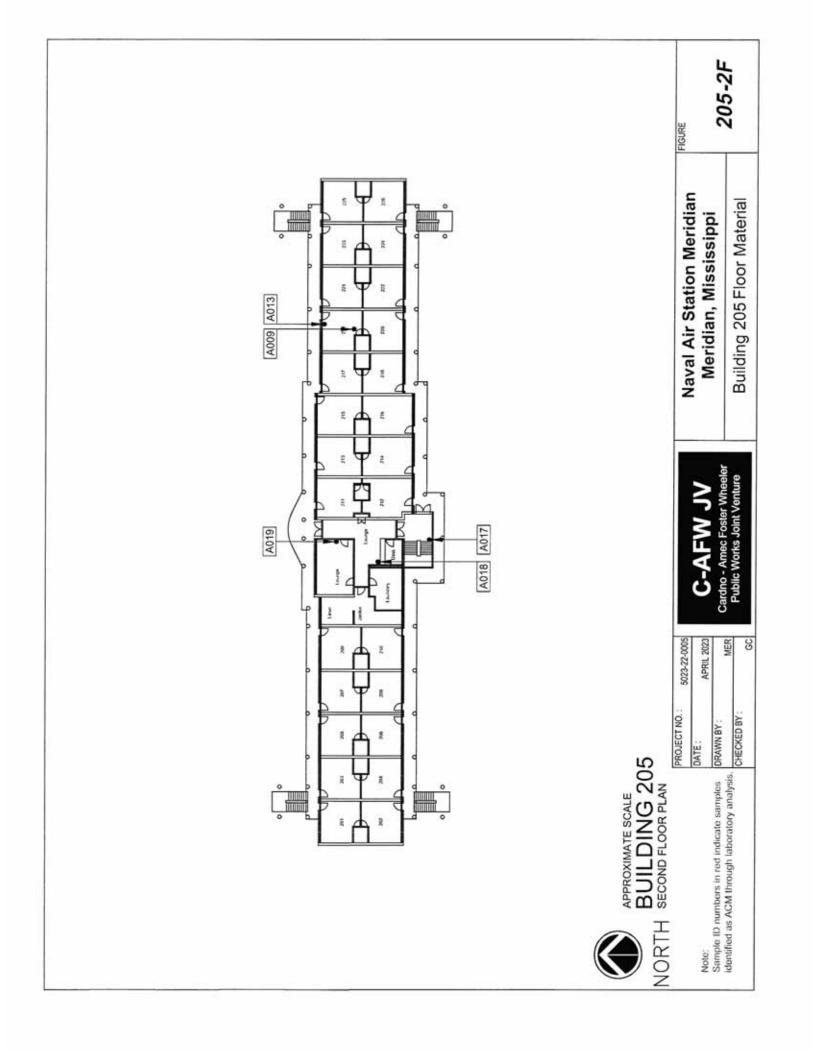


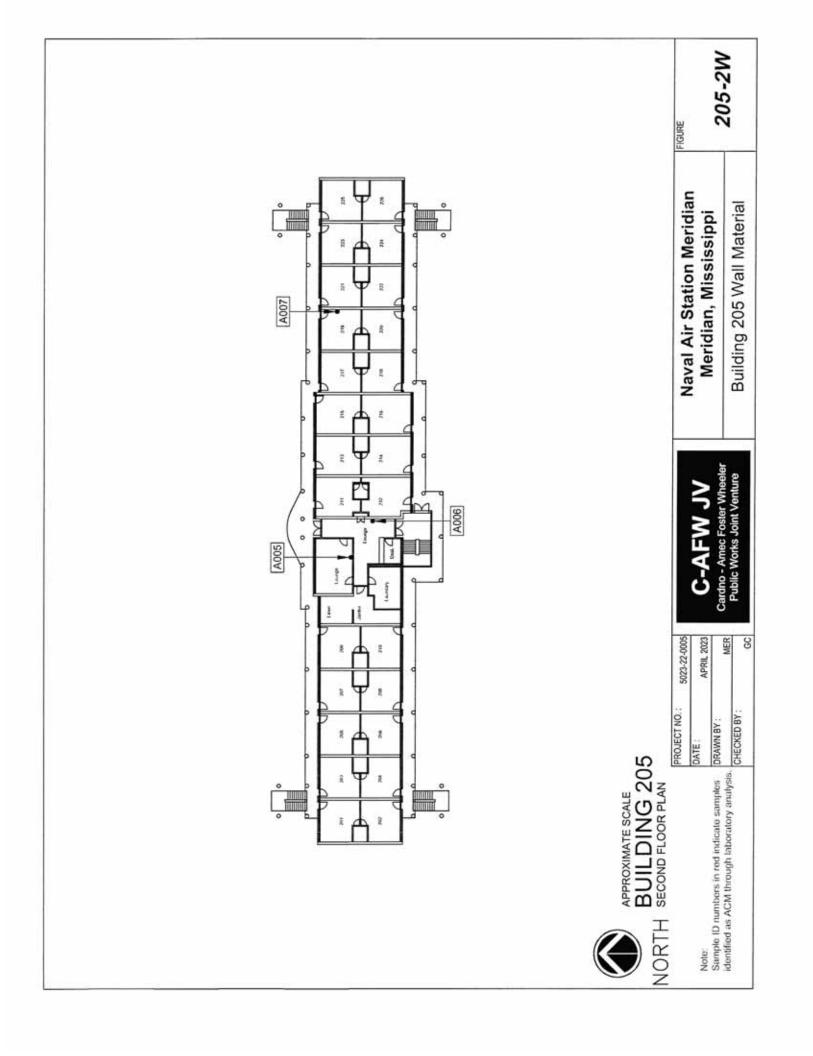












#### LUI DINIO OOF -

Naval Air Station Meridian Meridian, Mississippi	C-AFW JV Cardno - Amec Foster Wheeler	DJECT NO. : 5023-22-0005 TE : APRIL 2023 AWN BY : MER
	ā]	
	AUUT Sample Locatio	-
neous Material		
na na santa e tana an		
Seam Caulk	HM007 - White	
Expansion Joint Caulk	HM006 - Gray	
ige Covebase/Mastic	HM005 - 6" Be	
' Ceiling Panels with Pinholes	HM004 - 2' x 2	
ige Covebase/Mastic	HM003 - 4" Be	
Gray Mottled Floor Tile/Mastic	HM002 - 12" 0	
all/Joint Compound	HM001 - Dryw	
	rall/Joint Compound Gray Mottled Floor Tile/Mastic eige Covebase/Mastic ' Ceiling Panels with Pinholes eige Covebase/Mastic Expansion Joint Caulk e Seam Caulk e Duct Mastic Fire Stop (Assumed) tion Dampeners (Assumed) neous Material	HM001 - Drywall/Joint Compound HM002 - 12" Gray Mottled Floor Tile/Mastic HM003 - 4" Beige Covebase/Mastic HM004 - 2' x 2' Ceiling Panels with Pinholes HM005 - 6" Beige Covebase/Mastic HM006 - Gray Expansion Joint Caulk HM007 - White Seam Caulk HM007 - White Seam Caulk HM008 - White Duct Mastic HM009 - Red Fire Stop (Assumed) HM010 - Vibration Dampeners (Assumed) HM = Homogeneous Material A = Asbestos

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706 Gralin Street Kernersville, NC 27284 Tel/Fax: (336) 992-1025 / (336) 992-4175 http://www.EMSL.com / greensborolab@emsl.com EMSL Order: 022301229 Customer ID: 32AMEC21 Customer PO: Project ID:

Attention:	Scott Brown	Phone:	(858) 514-7724
	WSP USA Environment & Infrastructure Inc	Fax:	(858) 300-4301
	9210 Sky Park Court	Received Date:	02/07/2023 12:00 PM
	Suite 200	Analysis Date:	02/17/2023 - 02/18/2023
	San Diego, CA 92123-4478	Collected Date:	
Project:	NAS Meridian 5023220006.04.****.5023.5730-00		

### 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

			Non-Asbe	stos	Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
NASM-B0205-A-001-Joi nt Compound	Drywall/ Joint Compound	White Non-Fibrous Homogeneous		30% Ca Carbonate 70% Non-fibrous (Other)	None Detected
022301229-0001		V1110433541763946			
NASM-B0205-A-001-Dr ywall	Drywall/ Joint Compound	Brown/Gray Fibrous	10% Cellulose	90% Non-fibrous (Other)	None Detected
022301229-0001A		Homogeneous			
NASM-B0205-A-002	Drywall/ Joint Compound	Brown/Gray Fibrous	5% Cellulose 1% Glass	94% Non-fibrous (Other)	None Detected
022301229-0002		Homogeneous			
NASM-B0205-A-003-Joi nt Compound	Drywall/ Joint Compound	White Non-Fibrous Homogeneous		30% Ca Carbonate 70% Non-fibrous (Other)	None Detected
022301229-0003			The partners of the second		
NASM-B0205-A-003-Dr ywall	Drywall/ Joint Compound	Brown/Gray Fibrous Homogeneous	5% Cellulose 1% Glass	94% Non-fibrous (Other)	None Detected
022301229-0003A					
NASM-B0205-A-004-Joi nt Compound	Drywall/ Joint Compound	White Non-Fibrous Homogeneous		30% Ca Carbonate 70% Non-fibrous (Other)	None Detected
022301229-0004					
NASM-B0205-A-004-Dr ywall	Drywall/ Joint Compound	Brown/Gray Fibrous Homogeneous	5% Cellulose 1% Glass	94% Non-fibrous (Other)	None Detected
022301229-0004A		nonogeneous			
NASM-B0205-A-005-Joi nt Compound	Drywall/ Joint Compound	White Non-Fibrous Homogeneous	1% Cellulose	30% Ca Carbonate 69% Non-fibrous (Other)	None Detected
NASM-B0205-A-005-Ta pe	Drywall/ Joint Compound	Beige Fibrous Homogeneous	100% Cellulose		None Detected
022301229-0005A	100 000000		10.10.715W//2		
NASM-B0205-A-005-Dr /wall	Drywall/ Joint Compound	Brown/Gray Fibrous Heterogeneous	10% Cellulose	90% Non-fibrous (Other)	None Detected
022301229-00058					
NASM-B0205-A-006-Joi nt Compound	Drywall/ Joint Compound	White Non-Fibrous Homogeneous	1% Cellulose	30% Ca Carbonate 69% Non-fibrous (Other)	None Detected
22301229-0006		nonogeneous	N-2		
NASM-B0205-A-006-Ta be	Drywall/ Joint Compound	Beige Fibrous	100% Cellulose		None Detected
22301229-0006A		Homogeneous			



706 Gralin Street Kernersville, NC 27284 Tel/Fax: (336) 992-1025 / (336) 992-4175 http://www.EMSL.com / greensborolab@emsl.com

#### 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

Samola	Description	Annessee	Non-Asbe	Contraction Contraction Contraction Contraction	Asbestos
Sample NASM-B0205-A-006-Dr	Description	Appearance Brown/Gray	% Fibrous	% Non-Fibrous	% Type
NASM-BU2U5-A-006-Dr ywail	Drywall/ Joint Compound	Brown/Gray Fibrous Heterogeneous	15% Cellulose	85% Non-fibrous (Other)	None Detected
022301229-00068		- 1987 (198 <b>8</b> 60, 1997 (1997)			
NASM-B0205-A-007-Joi	Drywall/ Joint	White	1% Cellulose	30% Ca Carbonate	None Detected
nt Compound	Compound	Non-Fibrous Homogeneous		69% Non-fibrous (Other)	
022301229-0007					
NASM-B0205-A-007-Ta	Drywall/ Joint	Beige	100% Cellulose		None Detected
pe	Compound	Fibrous			
022301229-0007A		Homogeneous			
NASM-B0205-A-007-Dr	Drywall/ Joint	Brown/Gray	40% Cellulose	60% Non-fibrous (Other)	None Detected
ywall	Compound	Fibrous Heterogeneous			None Delected
022301229-0007B					
NASM-B0205-A-008-Flo	12" Gray Mottled	Gray		10% Quartz	None Detected
or Tile	Floor Tile/ Mastic	Non-Fibrous Homogeneous		90% Non-fibrous (Other)	
022301229-0008					
NASM-B0205-A-008-Ma	12" Gray Mottled	Black/Yellow	2% Cellulose	98% Non-fibrous (Other)	None Detected
stic	Floor Tile/ Mastic	Non-Fibrous Homogeneous		10 N	
022301229-0008A					
NASM-B0205-A-009-Flo	12" Gray Mottled	Gray		10% Quartz	None Detected
or Tile	Floor Tile/ Mastic	Non-Fibrous Homogeneous		90% Non-fibrous (Other)	
022301229-0009	State of the second		and and a stand of the		
NASM-B0205-A-009-Ma stic	12" Gray Mottled Floor Tile/ Mastic	Black Non-Fibrous	2% Cellulose	98% Non-fibrous (Other)	None Detected
		Homogeneous			
022301229-0009A		(200)			- 727 N258 VV/C
NASM-B0205-A-010-Flo or Tile	12" Gray Mottled Floor Tile/ Mastic	Gray Non-Fibrous		10% Quartz 90% Non-fibrous (Other)	None Detected
		Homogeneous		so a Normaldas (Other)	
022301229-0010					
NASM-B0205-A-010-Ma	12" Gray Mottled	Black/Yellow		100% Non-fibrous (Other)	None Detected
stic	Floor Tile/ Mastic	Non-Fibrous			
192301230 00101		Homogeneous			
022301229-0010A NASM-B0205-D-010-Flo	10" Conv Maillard	Mille Pales			
or Tile	12" Gray Mottled Floor Tile/ Mastic	White/Beige Non-Fibrous		20% Quartz 80% Non-fibrous (Other)	None Detected
or the		Homogeneous		constrainterous (outer)	
22301229-0011					
NASM-B0205-D-010-Ma	12" Gray Mottled	Black/Yellow/Orang	1% Cellulose	99% Non-fibrous (Other)	None Detected
stic	Floor Tile/ Mastic	e Nos Chana			
22301229-0011A		Non-Fibrous Heterogeneous			
	A" Rojan Countras			100% No. 6	New Press
NASM-B0205-A-011-Co ve Base	4" Beige Covebase Panels w/ Pinholes	Beige Non-Fibrous		100% Non-fibrous (Other)	None Detected
		Homogeneous			
22301229-0012					
NASM-B0205-A-011-Ma	4" Beige Covebase	Yellow		100% Non-fibrous (Other)	None Detected
stic	Panels w/ Pinholes	Non-Fibrous			1999-1999 (1999-1999) 1999-1999 (1999-1999) 1999-1999 (1999-1999)
		Homogeneous			
22301229-0012A					
NASM-B0205-A-012-Co ve Base	4" Beige Covebase Panels w/ Pinholes	Beige Non-Fibrous		100% Non-fibrous (Other)	None Detected
	r aneis w rannoles	Homogeneous			
22301229-0013					

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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	% Fibrous	% Non-Fibrous	Asbestos % Type
NASM-B0205-A-012-Ma stic	4° Beige Covebase Panels w/ Pinholes	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
022301229-0013A					
NASM-B0205-A-013-Co ve Base	4" Beige Covebase Panels w/ Pinholes	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
022303229-0014	100.00 million -	10.11	and the particular	Manufacture and the second	an a statistical dis
NASM-B0205-A-013-Ma stic	4" Beige Covebase Panels w/ Pinboles	Yellow Nan-Fibrous Homogeneous	1% Cellulose	99% Non-fibrous (Other)	Nane Detected
022301229-0014A					
NASM-B0205-A-014	2" x 2" Ceiling Panels w/ Pinholes	Gray/White Fibrous	40% Cellulose 10% Glass	30% Perlite 20% Non-fibrous (Other)	None Detected
022301229-0015	AL THAT AND I AT LOT	Homogeneous	244.0 4 TO 1 1 T	1040-0 TR 3	21.074 AND 14
NASM-B0205-A-015	2" x 2" Ceiling Panels w/ Pinholes	Gray/White Fibrous Homogeneous	40% Cellulose 10% Glass	30% Perite 20% Non-fibrous (Other)	None Detected
NASM-B0205-A-016	2" x 2" Ceiling Panels w/ Pinholes	Gray/White Fibrous	45% Cellulose 10% Glass	30% Perlite 15% Non-fibrous (Other)	None Detected
022301229-0017		Homogeneous			
NASM-B0205-A-017-Co ve Base	6" Beige Covebase/ Mastic	Brown Non-Fibrous		100% Non-fibrous (Other)	None Detected
022301229-0018		Homogeneous			
NASM-B0205-A-017-Ma stic	6" Beige Covebase/ Mastic	Yellow Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
022301229-0018A		1 Internation (and an			
NASM-B0205-A-018-Co ve Base	6" Beige Covebase/ Mastic	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
022301229-0019		nunugeneous			
NASM-B0205-A-018-Ma stic	6" Beigo Covebase/ Mastic	Yellow Non-Fibrous Homogeneous	-	100% Non-fibrous (Other)	None Detected
022301229-0019A					
NASM-B0205-A-019-Co ve Base	6" Beige Covebase/ Mastic	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
022301229-0020					
NASM-B0205-A-019-Ma stic	6" Beige Covebase/ Mastic	Yellow Non-Fibrous Homogeneous	<1% Callulose	100% Non-fibrous (Other)	None Detected
022301220-0020A					
NASM-B0205-A-020	Gray Expansion Joint Caulk	Black Non-Fibrous		100% Non-fibrous (Other)	None Detected
022301225-0021	Ser Aurol Aurol Auro	Hamogeneous		Website and and same	Auto and the
NASM-B0205-D-020	Gray Expansion Joint Caulk	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
NASM-B0205-A-021	Gray Expansion Joint	Black		100% Non-fibrous (Other)	None Detected
022301229-0023	Caulk	Non-Fibrous Homogeneous		trave rapit-uprous (Other)	NOUR Detected
NASM-B0205-A-022	Gray Expansion Joint Caulk	Black Non-Fibrous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
022801229-0024		Homogeneous			

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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

			Non-Asbe	stos	Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
NASM-B0205-A-023 022301229-0025	White Seam Caulk	Gray Non-Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
NASM-B0205-A-024 022301229-0026	White Seam Caulk	Gray Non-Fibrous Homogeneous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
NASM-B0205-A-025	White Seam Caulk	Gray Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
NASM-B0205-A-026 022301229-0028	White Duct Mastic	White Non-Fibrous Homogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
NASM-B0205-A-027	White Duct Mastic	White/Silver Fibrous Homogeneous	10% Glass	90% Non-fibrous (Other)	None Detected
NASM-B0205-A-028	White Duct Mastic	Tan/White/Silver Fibrous Heterogeneous	15% Cellulose 30% Glass	55% Non-fibrous (Other)	None Detected

Analyst(s)

Jurnee West (30) Scott Combs (19)

the R

Stephen Bennett, Laboratory Manager or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are writin quality control criteria and met method specifications unless otherwise noted. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/m482-020 'Interim Method') but augmented with procedures outlined in the 1993 ('final') version of the method. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Estimation of uncertainty is available on request.

Samples analyzed by EMSL Analytical, Inc. Kernersville, NC NVLAP Lab Code 102104-0, Virginia 3333-000228. West Virginia LT000321

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#### BUILDING 206 - BEQ - SURVEY SUMMARY

#### BUILDING DESCRIPTION

Building 206 is a two-story, 22,109-square-foot building constructed in 1961. The building is located at NAS Meridian main station and is a BEQ The building was abandoned at the time of survey.

#### ASBESTOS FINDINGS AND CONCLUSIONS

The survey team assigned ten (10) homogeneous materials of suspected ACM at this building. Thirty-one (31) samples were collected (excluding duplicate samples), none of which were identified as ACM. One material was not sampled and is assumed to be ACM:

 Vibration dampeners (HM-10): These materials were not sampled because of risk to the integrity of the units.

The attached figures show the samples and homogeneous materials that were identified through laboratory analysis as ACM and/or non-ACM for the identified sampling locations as well as the assumed locations.

#### RECOMMENDATIONS

It is recommended that the vibration dampener (HM-10) be considered ACM until laboratory analysis proves otherwise. It is in good condition and currently does not pose a hazard. However, it is recommended that if the material becomes damaged and friable, it should be repaired or removed. Removal of this ACM is considered Class II OSHA work, and repair is considered Class III OSHA work. Both Class II and Class III OSHA work must be performed by AHERA (or equivalent) trained workers. It is recommended that this building be included in the installation Asbestos Management Program until the identified ACM has been removed.

In addition, older building materials that may potentially be ACM could be concealed beneath newer material and/or were inaccessible during the survey. It is recommended that these materials, if encountered, be sampled and analyzed for asbestos before being disturbed by renovation or demolition activities.

## **REMOVAL COST ESTIMATE**

### TOTAL COST (ALL ACM)

	Low	High
1. Mobilization	\$1,000	\$2,000
2. Preparation of Asbestos Containment Area	\$0	\$0
3. Bulk Asbestos Removal	<\$1,000	<\$1,000
4. OSHA (and Clearance) Testing	\$0	\$0
5. Decontamination of Containment	\$0	\$0
6. Asbestos Waste Packaging, Handling, and Disposal	\$0	\$0
Total	\$1,500	\$3,000

Appendix A.: Asbestos Survey Reports

Building No.:	206	Inspector:	- SOISSAGE	e Annual	Asuesius IIIVeniory Summary - NASM 206 Renkin/Hirsch		Survey	1-101	
Building		·mondau			Indian Indiana		Date:	1/25/23	23
Name:		BEQ		Build	Building Description:	>	acant/Aban	Vacant/Abandoned BEQ	
Homogeneous Material No.	Sample Description	Condition	Friability	Quantity	Sample ID	Location	Sample Layers	Asbestos Content	Figure
÷	Drywall/Joint Compound	Damaged	u.	NA	NASM-B0206-A-001	Room 235B	2	NAD (Joint Compound) NAD	206-2W
÷	Drywall/Joint	Damaged	ш	MA	NASM-R0206-A-002	2nd Floor Machanical		(Joint Compound)	me ave
	compound	0	×.	Į.	300-V-00200-MinCol	Room	0	(Tape) NAD	200-2W
								(Joint	
F	Drywall/Joint Compound	Damaged	ų	AN	NASM-B0206-A-003	2nd Floor Laundry	ę	Compound) NAD (Tane)	206-2W
								(Drywall)	
	Drwall/Joint						10	NAD (Joint Compound)	
-	Compound	Damaged	u.	AA	NASM-B0206-A-004	Rec Room	m	NAD (Tape) NAD	206-2W

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Appendix A: Asbestos Survey Reports

			Asbestos II	nventory S	Asbestos Inventory Summary - NASM 206				
Building No.:	206	Inspector:			Rankin/Hirsch		Survey Date:	1/25/23	23
Building Name:		BEQ		Build	Building Description:	~	Vacant/Abandoned BEQ	doned BEQ	
Homogeneous Material No.	Sample Description	Condition	Friability	Quantity	Sample ID	Location	Sample Layers	Asbestos Content	Figure
÷	Drywall/Joint Compound	Damaged	L.	NA	NASM-B0206-A-005	Quarterdeck 1st Floor	N	NAD (Joint Compound) NAD (Drywall)	206-1W
+	Drywall/Joint Compound	Damaged	u.	NA	NASM-B0206-A-006	1st Floor Mechanical Room	5	NAD (Joint Compound) NAD (Drywall)	206-1W
ţ	Drywall/Joint Compound	Damaged	ų.	NA	NASM-B0206-A-007	1st Floor Mechanical Room	N	NAD (Joint Compound) NAD (Drywall)	206-1W
2	12" Blue Mottled Floor Tile/Mastic	Good	NF	NA	NASM-B0206-A-008	Room 235A	2	NAD (Floor Tile) NAD (Mastic)	206-2F
5	12" Blue Mottled Floor Tile/Mastic	Good	NF	NA	NASM-B0206-A-009	2nd Floor Rec Room	2	NAD (Floor Tile) NAD (Mastic)	206-2F
8	12" Blue Mottled Floor Tile/Mastic	Good	Ч	NA	NASM-B0206-A-010	2nd Floor Rec Room	2	NAD (Floor Tile) NAD (Mastic)	206-2F

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Appendix A. Asbestos Survey Reports

Rankin/Hirsch         Survey         1/25/23           Building Description:         Date:         Survey         1/25/23           Quantity         Sample ID         Location         Survey         1/25/23           Quantity         Sample ID         Location         Survey         1/25/23           Quantity         Sample ID         Location         Sample Content         Mab           Na         NaSM-B0206-D-010         Rec Room         Zad Floor         Layers         Content         NAD           Na         NASM-B0206-A-011         Room 235B         Z         Mab         NaSt(c)         NAD           Na         NASM-B0206-A-013         Rec Room         Znd Floor         Z         Mab           Na         NASM-B0206-A-013         Rec Room         Z         Mab           Na         NASM-B0206-A-015         Root in the         1         NAD<		Ĩ		ASDESIOS I	Iventory s	Asbestos Inventory Summary - NASM 206				
Building Description:         Vacant/Abandoned BEQ           Quantity         Sample ID         Location         Sample         Asbestos           Quantity         Sample ID         Location         Sample         Content           NA         NASM-B0206-D-010         Rec Room         2         NAD           NA         NASM-B0206-D-010         Rec Room         2         NAD           NA         NASM-B0206-D-010         Rec Room         2         NAD           NA         NASM-B0206-A-011         Room 235B         2         NAD           NA         NASM-B0206-A-012         Rec Room         2         NAD           NA         NASM-B0206-A-013         Rec Room         2         NAD           NA         NASM-B0206-A-013         Rec Room         2         NAD           NA         NASM-B0206-A-013         Rec Room         2         NAD           NA         NASM-B0206-A-014         Floor in the         1         NAD           NA         NASM-B0206-A-015         Rec Room         2         Covebase)           NA         NASM-B0206-A-015         Rec Room         2         NAD           NA         NASM-B0206-A-015         Floor in the         1	206 Inspector:	Inspector:				Rankin/Hirsch		Survey Date:	1/25/	23
QuantitySample IDLocationSampleAsbestosNADNANASM-B0206-D-0102nd FloorLayersContentNANASM-B0206-D-0102nd Floor2nd FloorFloorFloorNANASM-B0206-A-011Room 235B2NADNANASM-B0206-A-0122nd FloorCovebase)NANASM-B0206-A-012Rec Room2Covebase)NANASM-B0206-A-012Rec Room2MADNANASM-B0206-A-013Rec Room2MADNANASM-B0206-A-013Rec Room2MADNANASM-B0206-A-013Rec Room2MADNANASM-B0206-A-013Rec Room2MADNANASM-B0206-A-014Floor in the1NADNANASM-B0206-A-015Side of 2nd1NADNANASM-B0206-A-016Side of 2nd1NADNANASM-B0206-A-016Side of 1st1NADNANASM-B0206-A-016Side of 1st1NADNANASM-B0206-A-016Floor in the1NADNANASM-B0206-A-017Noid floor1NADNANASM-B0206-A-017Roor in the1NADNANASM-B0206-A-017Floor in the1NADNANASM-B0206-A-017Floor in the1NADNANASM-B0206-A-017Floor in the1NAD	BEQ	EQ			Build	ling Description:	N	acant/Abano	doned BEQ	
NA     NASM-B0206-D-010     Znd Floor     NAD       NA     NASM-B0206-D-010     Rec Room     2       NA     NASM-B0206-A-011     Room 235B     2       NA     NASM-B0206-A-012     Rec Room     2       NA     NASM-B0206-A-012     Rec Room     2       NA     NASM-B0206-A-012     Rec Room     2       NA     NASM-B0206-A-013     Rec Room     2       NA     NASM-B0206-A-015     Rec Room     2       NA     NASM-B0206-A-015     Rec Room     2       NA     NASM-B0206-A-015     Side of 2nd     1       NA     NASM-B0206-A-015     Side of 2nd     1       NA     NASM-B0206-A-015     Side of 2nd     1       NA     NASM-B0206-A-016     Side of 1st     1       NA     NASM-B0206-A-016     Side of 1st     1       NA     NASM-B0206-A-017     Side of 2nd     1       NA     NASM-B0206-A-017     S	Sample Condition Fris	-	Fris	Friability	Quantity	Sample ID	Location	Sample Layers	Asbestos Content	Figure
NA     NASM-B0206-A-011     Room 235B     Z     Mastic)       NA     NASM-B0206-A-011     Room 235B     2     (Mastic)       NA     NASM-B0206-A-012     Rec Room     2     (Mastic)       NA     NASM-B0206-A-012     Rec Room     2     (Mastic)       NA     NASM-B0206-A-013     Rec Room     2     (Mastic)       NA     NASM-B0206-A-013     Rec Room     2     (Mastic)       NA     NASM-B0206-A-013     Rec Room     2     (Mastic)       NA     NASM-B0206-A-014     Floor in the     1     NAD       NA     NASM-B0206-A-015     Rec Room     2     (Mastic)       NA     NASM-B0206-A-015     Rec Room     2     (Mastic)       NA     NASM-B0206-A-015     Floor in the     1     NAD       NA     NASM-B0206-A-017     Floor in the     1     NAD	Good			цЧ	AN	NASM-B0206-D-010	2nd Floor	2	(Floor Tile)	206-2F
NA     NASM-B0206-A-011     Room 235B     2     NAD (Mastic)       NA     NASM-B0206-A-011     Room 235B     2     (Covebase)       NA     NASM-B0206-A-012     Rec Room     2     (Mastic)       NA     NASM-B0206-A-013     Rec Room     2     (Mastic)       NA     NASM-B0206-A-014     Floor in the     1     NAD       NA     NASM-B0206-A-015     Side of 2nd     1     NAD       NA     NASM-B0206-A-015     Side of 2nd     1     NAD       NA     NASM-B0206-A-016     Side of 2nd     1     NAD       NA     NASM-B0206-A-017     Natidie     1     NAD	-	-	_				Kec Koom	1	(Mastic)	
MA     NASM-B0206-A-012     2nd Floor     A MAD       NA     NASM-B0206-A-012     Rec Room     2     (Mastic)       NA     NASM-B0206-A-013     Rec Room     2     (Mastic)       NA     NASM-B0206-A-014     Floor in the     1     NAD       NA     NASM-B0206-A-015     Side of 2nd     1     NAD       NA     NASM-B0206-A-015     Floor in the     1     NAD       NA     NASM-B0206-A-017     Floor in the     1     NAD       NA     NASM-B0206-A-017     Floor in the     1     NAD	Good			ц	NA	NASM BOOR A.011	Doom 236B	c	(Covebase)	20 200
NA     NASM-B0206-A-012     2nd Floor Rec Room     2     NAD (Mastic)       NA     NASM-B0206-A-013     2nd Floor Rec Room     2     (Covebase)       NA     NASM-B0206-A-013     2nd Floor Rec Room     2     (Mastic)       NA     NASM-B0206-A-013     Floor in the Middle     1     NAD       NA     NASM-B0206-A-014     Floor in the Middle     1     NAD       NA     NASM-B0206-A-015     Floor in the Middle     1     NAD       NA     NASM-B0206-A-015     Floor in the Middle     1     NAD       NA     NASM-B0206-A-016     Floor in the Middle     1     NAD       NA     NASM-B0206-A-016     Side of 2nd Middle     1     NAD       NA     NASM-B0206-A-016     Floor in the Middle     1     NAD       NA     NASM-B0206-A-016     Side of 2nd Middle     1     NAD	-	-	_					N	NAD (Mastic)	12-002
NA     NASM-B0206-A-013     Rec Room     Z     NAD       NA     NASM-B0206-A-013     2nd Floor     2nd Floor     (Mastic)       NA     NASM-B0206-A-013     Rec Room     2     (Mastic)       NA     NASM-B0206-A-013     Rec Room     2     (Mastic)       NA     NASM-B0206-A-014     Floor in the     1     NAD       NA     NASM-B0206-A-015     Floor in the     1     NAD       NA     NASM-B0206-A-017     Floor in the     1     NAD	Cood	-		L Z	N N	CTO V SCOOD MSVN	2nd Floor		(Covebase)	10 000
NA     NASM-B0206-A-013     Znd Floor Rec Room     2     NAD (Mastic)       NA     NASM-B0206-A-013     Rec Room     2     (Covebase)       NA     NASM-B0206-A-014     Floor in the Middle     1     NAD       NA     NASM-B0206-A-014     Floor in the Middle     1     NAD       NA     NASM-B0206-A-015     S Side of 2nd Middle     1     NAD       NA     NASM-B0206-A-015     Floor in the Middle     1     NAD       NA     NASM-B0206-A-016     Floor in the Middle     1     NAD       NA     NASM-B0206-A-016     S Side of 1st     1     NAD       NA     NASM-B0206-A-016     Floor in the Middle     1     NAD       NA     NASM-B0206-A-016     Notor in the Middle     1     NAD	Covebase Mastic				¥N.	210-A-00200-MICAN	Rec Room	7	NAD (Mastic)	47-907
NA     NaStree of 2nd Middle     Na Nastrey (Mastic)       NA     NASM-B0206-A-014     Floor in the Middle     1     NAD       NA     NASM-B0206-A-015     Side of 2nd Middle     1     NAD       NA     NASM-B0206-A-015     Floor in the Middle     1     NAD       NA     NASM-B0206-A-015     Floor in the Middle     1     NAD       NA     NASM-B0206-A-016     Floor in the Middle     1     NAD       NA     NASM-B0206-A-016     Floor in the Middle     1     NAD       NA     NASM-B0206-A-016     Floor in the Middle     1     NAD	Good			LL L	NA	NASM-B0206-A-013	2nd Floor	•	NAD (Covebase)	206.90
NA     NASM-B0206-A-014     N Side of 2nd Middle     1     NAD       NA     NASM-B0206-A-014     Floor in the Middle     1     NAD       NA     NASM-B0206-A-015     S Side of 2nd Middle     1     NAD       NA     NASM-B0206-A-015     Floor in the Middle     1     NAD       NA     NASM-B0206-A-016     Floor in the Middle     1     NAD       NA     NASM-B0206-A-016     Floor in the Middle     1     NAD       NA     NASM-B0206-A-016     Floor in the Middle     1     NAD	-	-		3			Rec Room	4	(Mastic)	12-002
NA     NASM-B0206-A-015     Middle     1     NAD       NA     NASM-B0206-A-015     S Side of 2nd     1     NAD       MA     NASM-B0206-A-015     Floor in the     1     NAD       NA     NASM-B0206-A-016     Floor in the     1     NAD       NA     NASM-B0206-A-016     Floor in the     1     NAD       NA     NASM-B0206-A-016     Floor in the     1     NAD       NA     NASM-B0206-A-017     Floor in the     1     NAD	Exterior White Caulk Good h	-	-	NF	NA	NASM-B0206-A-014	N Side of 2nd Floor in the	+	NAD	206-2F
NA     NASM-B0206-A-015     S Side of 2nd Floor in the     1     NAD       NA     NASM-B0206-A-015     Floor in the     1     NAD       NA     NASM-B0206-A-016     S Side of 1st Middle     1     NAD       NA     NASM-B0206-A-016     Floor in the     1     NAD       NA     NASM-B0206-A-017     Floor in the     1     NAD						The summer of	Middle			
NA NASW-BUZUG-A-UTS FLOOF IN THE TOOP INT THE TOOP IN THE TOOP INT TOOP INT THE TOOP INT THE TOOP INT TOOP INT TOOP INT THE TO	-	-		ų	VIV	NACH DOOD A GAF	S Side of 2nd			
NA NASM-B0206-A-016 Floor in the 1 NAD Middle Nick Nasm-B0206-A-017 Floor in the 1 NAD	nono		2	-	AN1	GLU-A-OUZUA-MICAN	Ploor in the Middle	-	NAD	206-2E
NA NASM-B0206-A-016 Floor in the 1 NAD Middle NASM-B0206-A-017 Floor in the 1 NAD		H		1		ATALCCER AND	S Side of 1st		1000	
NA NASM-B0206-A-017 Floor in the 1 NAD	Exterior White Caulk Good N	-	4	4	AN	NASM-B0206-A-016	Floor in the Middle	F.	NAD	206-1E
	Gray Expansion Joint Caulk Good			NF	NA	NASM-B0206-A-017	N Side of 2nd Floor in the		NAD	206-2E

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Appendix A: Asbestos Survey Reports

	4	Asbestos Ir	iventory S	Asbestos Inventory Summary – NASM 206				1
Ē	Inspector:			Rankin/Hirsch		Survey Date:	1/25/23	23
BEQ			Build	Building Description:	Na	Vacant/Abandoned BEQ	doned BEQ	
Sol	Condition	Friability	Quantity	Sample ID	Location	Sample Layers	Asbestos Content	Figure
O	Good	NF	NA	NASM-B0206-A-018	S Side of 2nd Floor in the Middle	F	NAD	206-2E
O	Good	NF	NA	NASM-B0206-A-019	S Side of 1st Floor in the Middle	F	NAD	206-1E
G	Good	NF	NA	NASM-B0206-A-020	2nd Floor Mechanical Room	ł.	NAD	206-2W
ö	Good	NF	NA	NASM-B0206-D-020	2nd Floor Mechanical Room	F	NAD	206-2W
õ	Good	NF	NA	NASM-B0206-A-021	2nd Floor Mechanical Room	Ŧ	NAD	206-2W
So	Good	NF	NA	NASM-B0206-A-022	2nd Floor Mechanical Room	4	NAD	206-2W
Good	po	NF	NA	NASM-B0206-A-023	2nd Floor Laundry	2	NAD (Floor Tile) NAD (Mastic)	206-2F
ö	Good	NF	NA	NASM-B0206-A-024	2nd Floor Laundry	2	NAD (Floor Tile) NAD (Mastic)	206-2F
ö	Good	NF	AA	NASM-B0206-A-025	2nd Floor Laundry	5	NAD (Floor Tile) NAD (Mastic)	206-2F

A-102

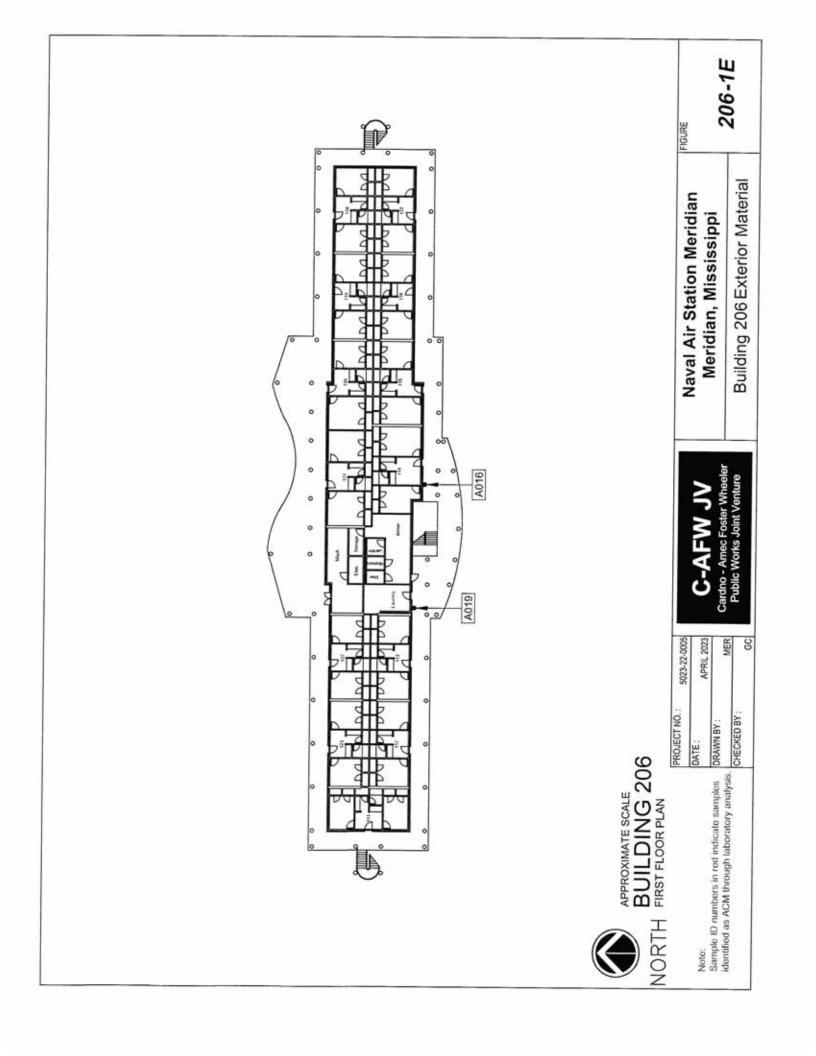
CAFW-3009-0895-0007

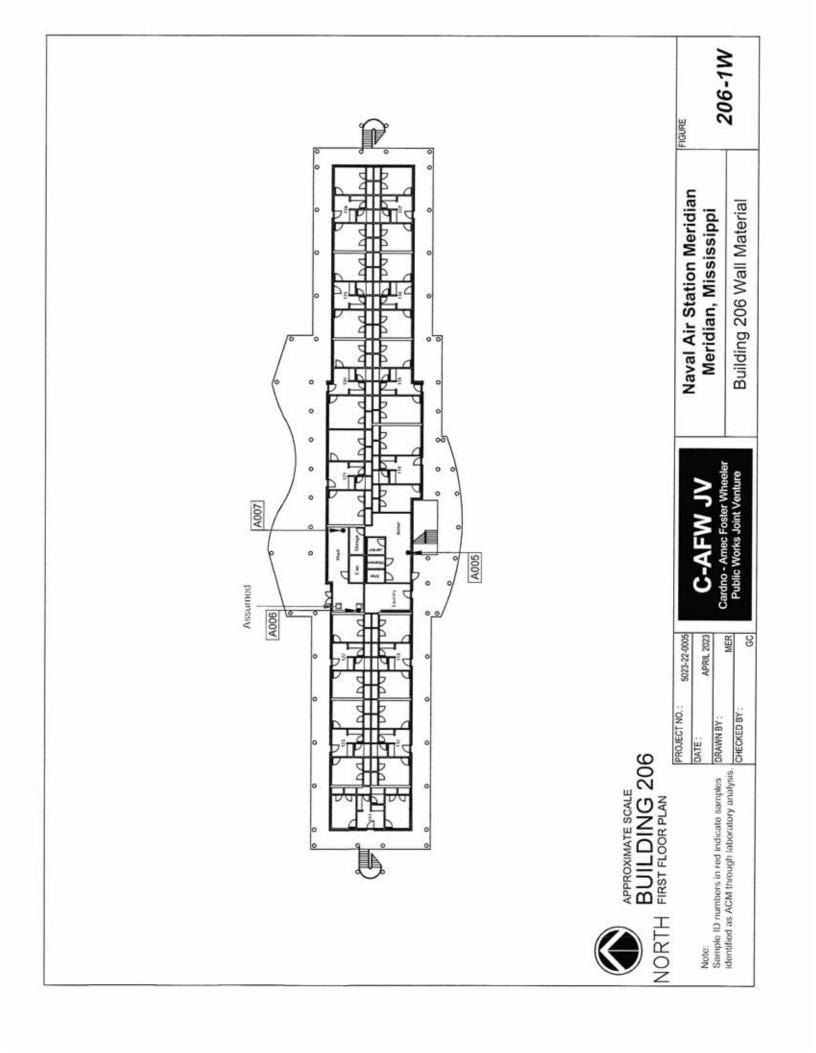
Appendix A: Asbestos Survey Reports

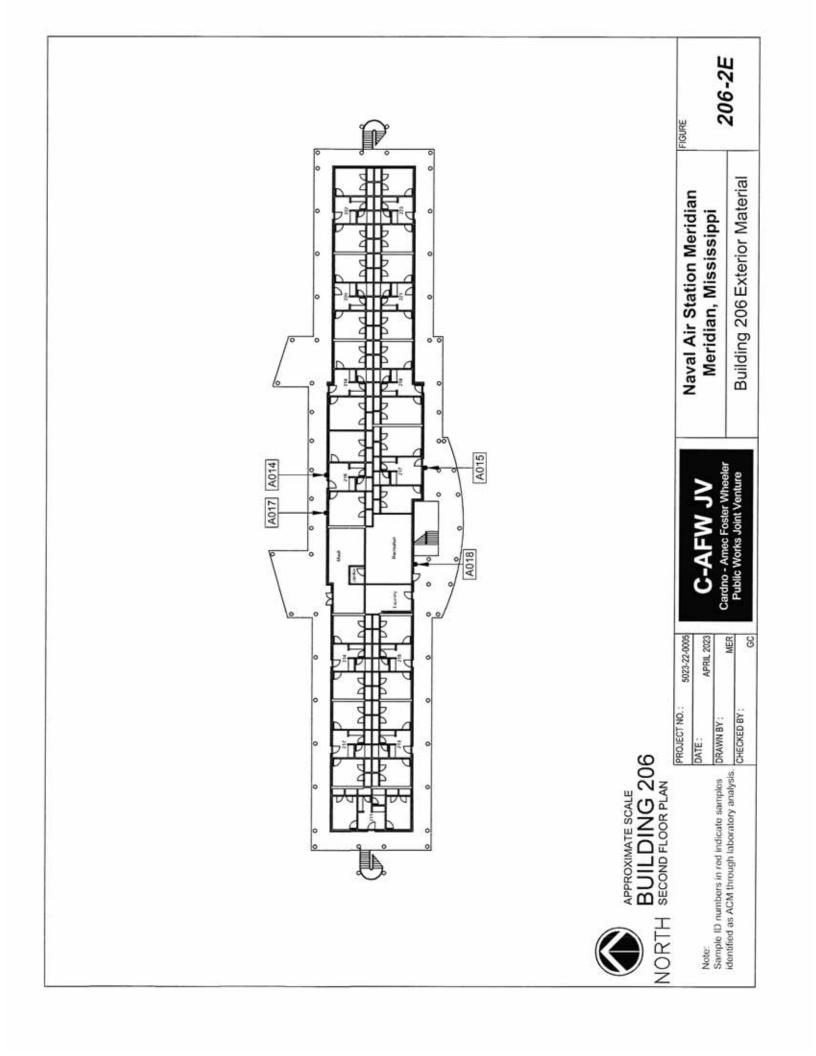
Building No.:	206	Inspector:			Rankin/Hirsch		Survey	1/25/23	23
Building Name:	ш	BEQ		Build	Building Description:	Ve	Vacant/Abandoned BEQ	toned BEQ	
Homogeneous Material No.	Sample Description	Condition	Friability	Quantity	Sample ID	Location	Sample Lavers	Asbestos Content	Figure
8	White Duct Mastic	Good	NF	NA	NASM-B0206-A-026	2nd Floor Laundry	1	NAD	206-2W
8	White Duct Mastic	Good	NF	NA	NASM-B0206-A-027	2nd Floor Laundry	F	NAD	206-2W
8	White Duct Mastic	Good	NF	NA	NASM-B0206-A-028	2nd Floor Laundry	F	NAD	206-2W
6	Gray Duct Mastic	Good	NF	NA	NASM-B0206-A-029	2nd Floor Mechanical Room	٠	NAD	206-2W
6	Gray Duct Mastic	Good	NF	NA	NASM-B0206-A-030	2nd Floor Mechanical Room	F	NAD	206-2W
Ø	Gray Duct Mastic	Good	NF	NA	NASM-B0206-D-030	2nd Floor Mechanical Room	Į.	NAD	206-2W
ŋ	Gray Duct Mastic	Good	NF	NA	NASM-B0206-A-031	2nd Floor Mechanical Room	ţ.	NAD	206-2W
10	Vibration Dampeners	Good	RF	40 LF	Assumed	1st and 2nd Floor Mech Rooms		Assumed	

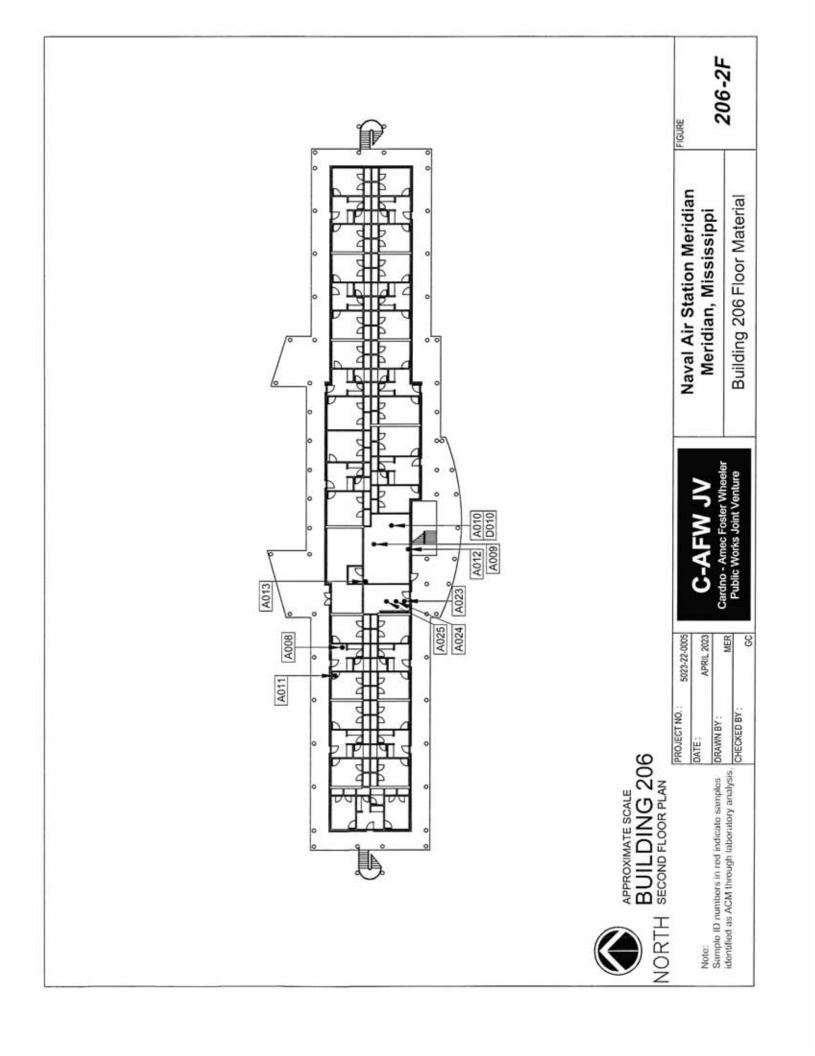
These abbreviations are used throughout Appendix A. < = less than; ' = foot (feet); '' = inch(es); E = east; F = friable; ft2 = square foot (feet); HVAC = heating, ventilation, and air conditioning; ID = identification; I = intact; LF = linear foot (feet); N = north; NA = not applicable; NAD = no asbestos detected; NASM = Naval Air Station Meridian; NE = northeast; NF = non-friable; NW = north; NA = not applicable; NAD = no asbestos detected; NASM = Naval Air Station Meridian; NE = northeast; NF = non-friable; NW = north; NA = not applicable; NAD = no asbestos detected; NASM = Naval Air Station Meridian; NE = northeast; NF = non-friable; NW = north; NS = south; SE = southeast; SW = southeast; and an anticidan; NE = north; Ne = n TSI = thermal system insulation; W = west

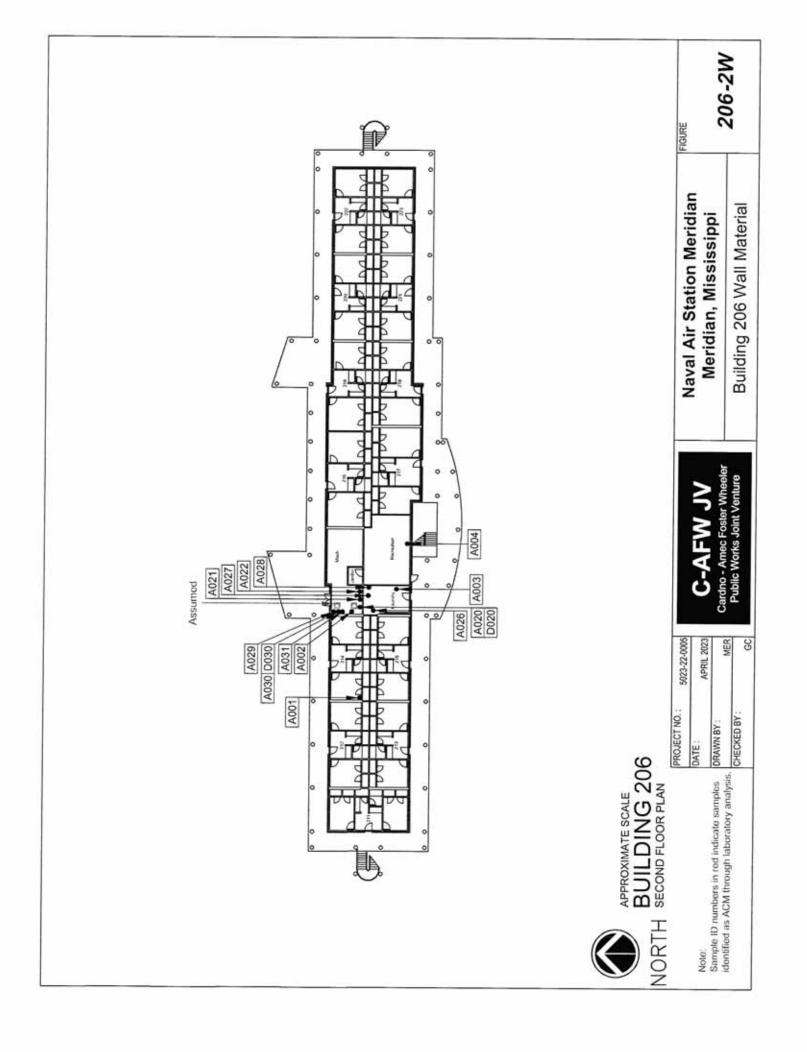
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EMBL	EMSL Analytical, Inc. 705 Gralin Street Kernersville, NC 27284 Tel/Fær: (336) 992-1025 / (336) 992-4175 http://www.EMSL.com / greensborolab@emsl.com	EMSL Order: Customer ID: Customer PO: Project ID:	11111111111111111111111111111111111111
Attention:	Scott Brown	Phone:	(858) 514-7724
	WSP USA Environment & Infrastructure Inc	Fax:	(858) 300-4301
	9210 Sky Park Court	Received Date:	02/07/2023 12:00 PM
	Suite 200		02/17/2023 - 02/18/2023
	San Diego, CA 92123-4478	Collected Date:	
Project:	NAS Meridian 5023220006.04.**** 5023.5730-00	CARGE STORE STORE	

### 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	% Fibrous	% Non-Fibrous	Asbestos % Type
NASM-B0206-A-001-Joi nt Compound	Drywall/ Joint Compound	White Non-Fibrous Homogeneous		30% Ca Carbonate 70% Non-fibrous (Other)	None Detected
022301198-0001		Transfer (1994)			
NASM-B0206-A-001-Dr ywali	Drywell/ Joint Compound	Gray Fibrous Heterogeneous	8% Cellulosa	92% Non-fibrous (Other)	None Detected
022301198-0001A		The second se			
NASM-B0206-A-002-Joi nt Compound	Drywall/ Joint Compound	White Non-Fibrous		30% Cá Carbonate 70% Non-fibrous (Other)	None Detected
022301198-0002		Homogeneous		Collin Deciption	
NASM-B0206-A-002-Ta	Drywall/ Joint	Tan	99% Cellulose	1% Non-fibrous (Other)	None Detected
pe	Compound	Fibrous Homogeneous		a see a second to really	
022301198-0002A					
NASM-B0206-A-002-Dr ywali	Drywall/ Joint Compound	Gray Fibrous Heterogenéous	8% Cellulose	92% Non-fibrous (Other)	None Detected
022301198-00028					
NASM-B0206-A-003-Joi nt Compound	Drywall/ Joint Compound	White Non-Fibrous Homogeneous		30% Ca Carbonate 70% Non-fibrous (Other)	None Detected
022301198-0003		HollioBerigona			
NASM-80206-A-003-Ta	Drywall/ Joint	Tan	99% Cellulose	1% Non-fibrous (Other)	None Detected
pe	Compound	Fibrous Homogeneous	a state and		figure in such
022301198-00034					
NASM-B0206-A-003-Dr ywall	Drywall/ Joint Compound	Gray Fibrous Heterogeneous	9% Cellulose	91% Non-fibrous (Other)	None Detected
022301198-00038		Lord ABauastan			
NASM-80206-A-004-Joi nt Compound	Drywall/ Joint Compound	White Non-Fibrous Homogeneous		30% Ca Carbonate 70% Non-fibrous (Other)	None Detected
022301198-0004		1	and the second sec		
NASM-B0206-A-004-Ta pe	Drywall/ Joint Compound	Tan Fibrous	99% Cellulose	1% Non-fibrous (Other)	None Detected
22301195-00044		Homogeneous			
NASM-B0206-A-004-Dr	Drywall/ Joint	Gray	6% Cellulose	92% Non-fibrous (Other)	None Detected
wall	Compound	Fibrous Heterogeneous	2% Glass	as a work-involus (Canet)	None Detected
022301198-00048		The state of the s	and the second second		
NASM-B0206-A-005-Joi nt Compound	Drywall/ Joint Compound	White Non-Fibrous Homogeneous	1% Cellulose	30% Ca Carbonate 59% Non-fibrous (Other)	None Detected
722301195-0005		nomogeneous			

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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	% Fibrous	% Non-Fibrous	0/ T
NASM-B0206-A-005-Dr	Drywall/ Joint	Brown/Gray	10% Cellulose	90% Non-fibrous (Other)	% Type None Detected
ywall	Compound	Fibrous Heterogeneous	10% Gendlose	addit Normibious (Other)	None Detected
022301198-0005A					
NASM-B0206-A-006-Joi	Drywall/ Joint	White	1% Cellulose	30% Ca Carbonate	None Detected
nt Compound	Compound	Non-Fibrous Homogeneous		69% Non-fibrous (Other)	
022301198-0006					
NASM-B0206-A-006-Dr	Drywall/ Joint	Brown/Gray	10% Cellulose	90% Non-fibrous (Other)	None Detected
ywall	Compound	Fibrous Heterogeneous			
022301198-0005A					
NASM-B0206-A-007-Joi nt Compound	Drywall/ Joint Compound	White Non-Fibrous Homogeneous	<1% Cellulose	30% Ca Carbonate 70% Non-fibrous (Other)	None Detected
022301198-0007					
NASM-B0206-A-007-Dr	Drywall/ Joint	Brown/Gray	10% Cellulose	90% Non-fibrous (Other)	None Detected
ywall	Compound	Fibrous Heterogeneous		12	
022301198-0007A	and the second				
NASM-B0206-A-008-Flo or Tile	12" Blue Mottled Floor Tile/ Mastic	Blue Non-Fibrous		20% Quartz 80% Non-fibrous (Other)	None Detected
		Heterogeneous			
022301198-0008	CONTRACTOR OF THE OWNER				and the second
NASM-B0206-A-008-Ma	12" Bllue Mottled	Brown	<1% Cellulose	100% Non-fibrous (Other)	None Detected
stic	Floor Tile/ Mastic	Non-Fibrous Homogeneous			
022301198-0008A	100 00 00 00 00 00			2112 20 203	
NASM-B0206-A-009-Flo or Tile	12" Bilue Mottled Floor Tile/ Mastic	Blue Non-Fibrous Homogeneous		20% Quartz 80% Non-fibrous (Other)	None Detected
022301198-0009		Tomogeneous			
NASM-B0206-A-009-Ma	12" Bilue Mottled	Tan/Yellow	<1% Cellulose	100% Non-fibrous (Other)	None Detected
stic	Floor Tile/ Mastic	Non-Fibrous Homogeneous		too a normaliona (other)	Hone Delected
222301198-0009A					
NASM-B0206-A-010-Flo	12" Bllue Mottled	Blue		20% Quartz	None Detected
or Tile	Floor Tile/ Mastic	Non-Fibrous Homogeneous		80% Non-fibrous (Other)	
022301198-0010					
NASM-B0206-A-010-Ma	12" Blue Mottled	Tan/Yellow	<1% Cellulose	100% Non-fibrous (Other)	None Detected
stic	Floor Tile/ Mastic	Non-Fibrous			
122301198-0010A		Homogeneous			
NASM-B0206-D-010-Flo	12" Blue Mottled	Blue		20% Quartz	None Detected
or Tile	Floor Tile/ Mastic	Non-Fibrous Homogeneous		80% Non-fibrous (Other)	None Detected
22301198-0011		11.500.2 <b>7</b> 11160.275			
NASM-B0206-D-010-Ma	12" Bllue Mottled	Yellow	<1% Cellulose	100% Non-fibrous (Other)	None Detected
stic	Floor Tile/ Mastic	Non-Fibrous			
022301198-0011A		Homogeneous			
NASM-B0206-A-011-Co	Blue-Green	Blue		100% Non-fibrous (Other)	None Detected
ve Base	Covebase/ Mastic	Non-Fibrous			
00001100 0010		Homogeneous			
22301198-0012	Dive O	M-B-		IRAN INCOME TO STREET	and the second se
NASM-B0206-A-011-Ma atic	Blue-Green Covebase/ Mastic	Yellow Non-Fibrous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
		Homogeneous			



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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

-			Non-Asbe	10 15 15 A	Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
NASM-B0206-A-012-Co ve Base	Blue-Green Covebase/ Mastic	Blue Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
022301198-0013		Tomogeneous			
NASM-B0206-A-012-Ma	Blue-Green	Tan/Yellow	<1% Cellulose	100% Non-fibrous (Other)	None Detected
stic	Covebase/ Mastic	Non-Fibrous Homogeneous			
022301198-00134		0			
NASM-B0206-A-013-Co	Blue-Green	Blue		100% Non-fibrous (Other)	None Detected
ve Base	Covebase/ Mastic	Non-Fibrous Hornogeneous			
022301198-0014					
NASM-B0206-A-013-Ma	Blue-Green	Yellow Non-Fibrous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
stic	Covebase/ Mastic	Homogeneous			
022301198-0014A					
NASM-B0206-A-014	Exterior White Caulk	White Non-Fibrous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
022301198-0015		Homogeneous			
NASM-B0206-A-015	Exterior White Caulk	White Non-Fibrous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
022301198-0016		Homogeneous			
NASM-B0206-A-016	Exterior White Caulk	Beige Non-Fibrous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
022301198-0017		Homogeneous			
NASM-B0206-A-017	Gray Expansion Joint Caulk	Brown/Gray Non-Fibrous		5% Ca Carbonate 95% Non-fibrous (Other)	None Detected
022301198-0018		Homogeneous			
NASM-B0206-A-018	Gray Expansion Joint Caulk	Brown/Gray Non-Fibrous		10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
022301198-0019		Homogeneous			
NASM-B0206-A-019	Gray Expansion Joint Caulk	Gray/White Non-Fibrous	<1% Cellulose	10% Ca Carbonate 90% Non-fibrous (Other)	None Detected
022301198-0020		Homogeneous			1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.
NASM-B0206-A-020	Red Fire Stop	White/Red Non-Fibrous	<1% Cellulose	5% Ca Carbonate 95% Non-fibrous (Other)	None Detected
	Pad Eiro Stee	Homogeneous Red	20/ Callulana	09% Nee Shrew (Other)	Nees Detected
NASM-B0206-D-020	Red Fire Stop	Non-Fibrous	2% Cellulose	98% Non-fibrous (Other)	None Detected
022301198-0022	Ded Carlo	Homogeneous			ALC: NO STREET
NASM-B0206-A-021	Red Fire Stop	White/Red Non-Fibrous	3% Cellulose	5% Ca Carbonate 92% Non-fibrous (Other)	None Detected
022301198-0023		Homogeneous	2- <u>22220</u> -010-20100		 
NASM-B0206-A-022	Red Fire Stop	White/Red Non-Fibrous	1% Cellulose	5% Ca Carbonate 94% Non-fibrous (Other)	None Detected
022301198-0024		Heterogeneous			
NASM-B0206-A-023-Flo or Tile	12" Gray Floor Tile/ Mastic	Gray Non-Fibrous		20% Quartz 80% Non-fibrous (Other)	None Detected
022301198-0025		Heterogeneous			
NASM-B0206-A-023-Ma	12" Gray Floor Tile/	Tan	<1% Cellulose	100% Non-fibrous (Other)	None Detected
stic	Mastic	Non-Fibrous Homogeneous	STA CENTIONE		Hone Detected
022301198-0025A		5.53			
NASM-B0206-A-024-Flo	12" Gray Floor Tile/	Gray		20% Quartz	None Detected
or Tile	Mastic	Non-Fibrous Heterogeneous		80% Non-fibrous (Other)	
022301198-0026					

Initial report from: 02/20/2023 08:20:11



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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

			Non-Asbe	stos	Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
NASM-B0206-A-024-Ma stic	12" Gray Floor Tile/ Mastic	Yellow Non-Fibrous Homogeneous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
022301198-0026A					
NASM-B0206-A-025-Flo or Tile 022301198-0027	12* Gray Floor Tile/ Mastic	Gray Non-Fibrous Homogeneous		20% Quartz 80% Non-fibrous (Other)	None Detected
NASM-B0206-A-025-Ma	12" Gray Floor Tile/	Yellow	<1% Cellulose	100% Non-fibrous (Other)	None Detected
stic	Mastic	Non-Fibrous Homogeneous		too in real-horous (other)	None Delected
022301198-0027A					
NASM-B0206-A-026	White Duct Mastic	Gray Non-Fibrous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
022301198-0028		Homogeneous			
NASM-B0206-A-027	White Duct Mastic	Gray/White Non-Fibrous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
022301198-0029		Homogeneous			
NASM-B0206-A-028	White Duct Mastic	Gray/Beige Non-Fibrous	3% Cellulose <1% Synthetic	97% Non-fibrous (Other)	None Detected
022301198-0030	12010-12010-1201-120-1	Homogeneous	a a second de		Taktor (1957) - Jak
NASM-B0206-A-029	Gray Duct Mastic	Gray Non-Fibrous	<1% Cellulose	100% Non-fibrous (Other)	None Detected
022301198-0031		Homogeneous			
NASM-B0206-A-030	Gray Duct Mastic	Gray Non-Fibrous	<1% Cellulose	5% Ca Carbonate 95% Non-fibrous (Other)	None Detected
022301198-0032		Homogeneous			
NASM-B0206-D-030	Gray Duct Mastic	Gray Non-Fibrous	<1% Cellulose	5% Ca Carbonate 95% Non-fibrous (Other)	None Detected
022301198-0033		Homogeneous			
NASM-B0206-A-031	Gray Duct Mastic	Gray Non-Fibrous Homogeneous	<1% Cellulose	5% Ca Carbonate 95% Non-fibrous (Other)	None Detected

Analyst(s)

Cameron Evans (37) Scott Combs (17)

Stephen Bennett, Laboratory Manager or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are writhin quality control criteria and met method specifications unless otherwise noted. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method") but augmented with procedures outlined in the 1993 ("final") version of the method. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Estimation of uncertainty is available on request.

Samples analyzed by EMSL Analytical, Inc. Kernersville, NC NVLAP Lab Code 102104-0, Virginia 3333-000228, West Virginia LT000321

Initial report from: 02/20/2023 08:20:11

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Asbestos and Lead-Based Paint Survey Naval Air Station Meridian Building 158 Meridian, Mississippi

Contract N69450-14-M-5346

September 2015





1015 North 12th Street Toledin OH 43604-5305 T 419-324-2222 F 419-241-1808

TTL Project No. 12047.01

September 14, 2015

NAVFAC Southeast Mr. Jason Clayton PWD Meridian 229 Allen Road, Building 427 NAS Meridian Meridian, Mississippi 39309-5427

### Asbestos and Lead-Based Paint Survey Report Building 158 Naval Air Station Meridian Meridian, Mississippi Contract N69450-14-M-5346

Dear Mr. Clayton:

The report for the Asbestos and Lead-Based Paint (LBP) Survey conducted for the Naval Facilities Engineering Command (NAVFAC) Southeast and Naval Air Station (NAS) Meridian at the above-referenced site is enclosed. TTL understands the purpose of this project is to assess Building 158 for the presence of asbestos and LBP prior to future renovation and/or demolition activities. This project was conducted in accordance with awarded contract number N69450-14-M-5346, dated September 27, 2014.

TTL appreciates the opportunity to provide NAVFAC Southeast and NAS Meridian with our consulting and testing services. Should you have any questions or require additional information, please contact Mr. Adam Mead at (419) 214-5078.

Sincerely,

TTL Associates, Inc.

Adam G. Mead Industrial Hygienist

Attachment

Jara Vappul

Sara Vogelpohl Manager, Asbestos Services

V:\Toledo\NAVY\NAVFAC SE\12047 MeridianAsbestos LCM Testing IDIQ\Reports\Building 158\NAS Meridian - Building 158 - Asbestos Lead Survey Report.docx

### ASBESTOS AND LEAD-BASED PAINT SURVEY REPORT BUILDING 158 NAVAL AIR STATION MERIDIAN MERIDIAN, MISSISSIPPI

FOR

### NAVAL FACILITIES ENGINEERING COMMAND SOUTHEAST PWD MERIDIAN 229 ALLEN ROAD, BUILDING 427 NAS MERIDIAN MERIDIAN, MISSISSIPPI

SUBMITTED

SEPTEMBER 14, 2015 TTL PROJECT NO. 12047.01

TTL ASSOCIATES, INC. 1915 NORTH 12<sup>TH</sup> STREET TOLEDO, OHIO 43604 (419) 324-2222 (419) 321-6252 FAX



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### **EXECUTIVE SUMMARY**

TTL Associates, Inc. (TTL) conducted an Asbestos and Lead-Based Paint (LBP) survey for the Naval Facilities Engineering Command Southeast (NAVFAC SE) at Building 158 located at Naval Air Station (NAS) Meridian in Meridian, Mississippi. The purpose of the survey was to identify asbestos-containing materials (ACM) and LBP prior to future renovation and/or demolition activities.

The survey was conducted on April 9 and April 16, 2015, by Mr. Adam Mead of TTL and Mr. Raymond Kennedy of Tioga Environmental Consultants, Inc. (Tioga).

TTL's scope of work included the following:

- Surveying the facility for suspect ACM
- Collection of suspect asbestos bulk samples for analysis by polarized light microscopy (PLM) to determine asbestos content
- LBP testing of all accessible painted surfaces by an x-ray fluorescence (XRF) analyzer
- Collection of bulk samples of identified LBP for waste characterization

### Asbestos Survey

TTL identified 11 suspect ACM and collected 22 bulk samples, from which 55 sample layers were analyzed. The number of samples collected from each suspect ACM was determined by the quantity of material present. Laboratory analysis identified one sampled material as ACM, described below:

• Approximately 130 square feet (s.f.) of black glue pods behind mirrors (HSA 158-07)

### Lead-Based Paint Survey

No LBP was identified during this survey. No collection of paint chip samples or waste characterization were required.



### **1.0 INTRODUCTION**

TTL Associates, Inc. (TTL) conducted an Asbestos and Lead-Based Paint (LBP) survey for the Naval Facilities Engineering Command Southeast (NAVFAC SE) at Building 158 located at Naval Air Station (NAS) Meridian in Meridian, Mississippi.

### 1.1 Project Purpose and Objectives

TTL conducted the surveys in accessible areas of the interior and exterior of Building 158 to determine the presence of asbestos-containing materials (ACM) and LBP which may require removal prior to renovation or demolition activities. The asbestos survey was conducted in accordance with the National Emissions Standard for Hazardous Air Pollutants asbestos regulations (Title 40 of the Code of Federal Regulations [CFR] 61, Subpart M) (NESHAP) and the Asbestos Hazard Emergency Response Act regulation (40 CFR 76, Subpart E) (AHERA). The LBP survey was conducted in accordance with the United States Department of Housing and Urban Development (HUD) *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing*, Chapter 7, published in June 1995 and revised in 1997.

### 1.2 Personnel

The survey was conducted by Mr. Adam Mead of TTL and Mr. Raymond Kennedy of Tioga Environmental Consultants, Inc. (Tioga).

Mr. Mead is a State of Mississippi Department of Environmental Quality certified Asbestos Inspector (Certification No. ABI-00006853).

Mr. Kennedy is a State of Mississippi Department of Environmental Quality certified Lead Inspector (Certification No. PBI-00001416).

Copies of their certifications are included in Appendix A.

### 1.3 Site Description

Building 158, constructed in 1999, is a single-story steel structure formerly housing a restaurant. The building was vacant and unoccupied at the time of the surveys.



### 2.0 ASBESTOS SRVEY

This section documents the methods and results of the asbestos survey conducted in accordance with the NESHAP and AHERA. Field work was conducted on April 9, 2015.

### 2.1 Homogenous Areas

Each accessible area was surveyed for suspect ACM and included the identification of suspect materials and the definition of homogeneous sampling areas (HSAs), assessment of the condition of each material, estimation of the approximate quantity of the suspect ACM, and collection and analysis of representative bulk samples from each identified HSA. An HSA is defined as a material that exhibits similar physical characteristics (e.g., texture, surface color, and appearance) and was applied or installed during the same construction period (if known) as determined by TTL's survey team utilizing professional judgment, experience, and historical building information.

### 2.2 Sampling and Analysis Methods

Suspect ACM samples were collected using a coring device or other means, as appropriate, to collect a cross section of the suspect material. The samples were placed into clean, unused sealable bags and marked with a unique sample identification number. All sampling areas were repaired or encapsulated immediately after sampling. The samples of suspect ACM were transported to TTL's asbestos laboratory and analyzed by polarized light microscopy (PLM) using United States Environmental Protection Agency (U.S. EPA) Method 600/R-93/116. The EPA/600/R-93/116 "Method for the Determination of Asbestos in Bulk Building Materials" requires that all multiple, distinct layers must be analyzed individually. Sample analysis results are provided for each distinct layer of each sample submitted to the laboratory.

TTL's asbestos laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP), which is administered by the National Institute of Standards and Technology. The laboratory accreditation number is included in the analytical report.

### 2.3 Asbestos Analytical Results

TTL identified 11 suspect ACM and collected 22 samples, from which 55 sample layers were analyzed. Laboratory analytical data identified one sampled material as ACM.

The U.S. EPA defines an ACM as a material that contains greater than one percent asbestos by visual estimation or weight. The following material was identified as ACM as defined by the U.S. EPA:

• Approximately 130 square feet (s.f.) of black glue pods behind mirrors (HSA 158-07)

Refer to Appendix B for a detailed list of all identified suspect materials, quantities, and analytical results. Asbestos sampling location diagrams are included in Appendix C. The



asbestos laboratory analytical report is included in Appendix D. Color photographs of each sample location are included in Appendix E.

### 2.4 Regulatory Requirements Summary

The U.S. EPA defines regulated ACM (RACM) as: (a) Friable asbestos material, (b) Category I Non-Friable ACM that has become friable, (c) Category I Non-Friable ACM that will be or has been subjected to sanding, grinding, cutting, or abrading, or (d) Category II Non-Friable ACM that has a high probability of becoming or has become crumbled, pulverized, or reduced to powder by the forces expected to act on the material in the course of demolition or renovation operations.

The U.S. EPA NESHAP asbestos regulations require the removal of all RACM from a facility being demolished or renovated prior to beginning any activity that might damage or disturb the material. The U.S. EPA requires a written notification 10 business days prior to the disturbance of RACM if the combined amount of RACM to be disturbed exceeds 160 square feet, 260 linear feet, or one cubic meter of facility components where length or area could not be measured. The Mississippi Department of Environmental Quality also requires ten business day prior notification if the amount of RACM to be disturbed exceeds 160 square feet, 260 linear feet, or 35 cubic feet (one cubic meter).



### 3.0 LEAD-BASED PAINT SURVEY

This section documents the methods and results of the LBP survey conducted in accordance with HUD guidelines. Field work was conducted on April 16, 2015.

### 3.1 Survey

Each accessible interior and exterior painted surface was tested for LBP. TTL identified areas of painted surfaces of different color, substrate, and component in accordance with the Housing and Urban Development (HUD) *Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing*, Chapter 7, published in June 1995 and revised in 1997.

A Niton x-ray fluorescence (XRF) analyzer was used to conduct the survey.

### 3.2 Survey Results

The U.S. EPA and HUD define LBP as containing more than 1.0 milligrams of lead per square centimeter (mg/cm<sup>2</sup>) of area, as detected by XRF analysis.

No LBP was identified during this survey in the areas tested. The Niton XRF analyzer used during this survey does not have an "inconclusive" range. No subsequent verification paint chip sampling was required. Therefore, no waste characterization sampling was required.

XRF analyzer data for all tested surfaces are included in Appendix F.



### 4.0 CONCLUSIONS/RECOMMENDATIONS

This section presents the conclusions of the asbestos and LBP surveys and provides recommendations for future actions and safeguards.

### 4.1 Asbestos Survey

TTL identified 19 suspect ACM and collected 44 samples, from which 119 sample layers were analyzed. Based on laboratory analytical results, no Friable ACM or Category I non-Friable ACM were identified during this survey.

The following Category II Non-Friable ACM was identified within Building 158 and requires removal prior to demolition or renovation activities that would impact the materials:

• Approximately 130 s.f. of black glue pods behind mirrors (HSA 158-07)

TTL recommends the removal of the RACM and the ACM that might become RACM based on the project-specific renovation techniques by a licensed asbestos abatement contractor. Based on the condition of the material, the identified ACM may be expected to be a RACM. Therefore, the renovation contractor must be notified of the presence, quantity, and location of the material so as to avoid project specific renovation techniques that may render the material friable and RACM.

### 4.2 LBP Survey

Accessible interior and exterior painted surfaces were tested for LBP using an XRF analyzer. Based on the XRF analyzer data, no LBP was identified during this survey in the areas tested.



### 5.0 LIMITATIONS

TTL has made reasonable efforts to identify and quantify suspect ACM and LBP based upon the standard of care in the environmental industry existing at the time of the survey. This survey only summarizes the potential presence and estimated quantities of visually observed ACM and LBP.

Additional material disturbed during renovation or demolition activities should be evaluated on a case-by-case basis, especially materials that were previously hidden, obscured or inaccessible, to determine if the material is included in this survey. If a given material is not described in this report or cannot be identified as a non-suspect material, the material should be assumed to contain asbestos and/or LBP and renovation and/or demolition activities should be halted until sampling and analysis can be accomplished. Parties conducting renovation and/or demolition activities should follow all applicable federal, state, and local regulations in handling identified and suspect ACM and LBP.

The information contained in the report was based upon specific parameters and regulations in force at the time of the survey. The information herein is only for the specific use of NAVFAC SE, NAS Meridian and TTL, unless written authorization is obtained from TTL. TTL accepts no responsibility for the use, interpretation, or reliance by other parties on the information contained herein, nor does this report represent an instrument of regulatory compliance or an asbestos or LBP abatement specification.



APPENDIX A

TTL AND TIOGA CERTIFICATIONS



### State of Mississippi

Department of Environmental Quality Office of Pollution Control

### Certificate of Licensure

In accordance with the Asbestos Abatement Accreditation and Certification Act, Enacted as 1989 Mississippi Law, Chapter 505

Be it known that

Adam G Mead

Having submitted acceptable evidence of qualifications and training and other appropriate information, is hereby granted this

### Asbestos Inspector

**Certification** 

Chief, Ashestos & Lead Certification Branch

Certificate No.: ABI-00006853 Expiration Date: Jul 9th, 2015 Training Expires on Jul 9th, 2015

66986 LIC20140001

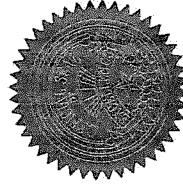
# Certificate of Achievement

### Raymond Kennedy III

## Pickering Environmental Consultants, Inc

Has successfully completed the Thermo Fisher Scientific NITON Analyzers Manufacturer's Training Course and is now certified in radiation safety and monitoring, device operation, Certificate issued by Thermo Fisher Scientific NITON Analyzers (CIII's - The ABH Awards I CM point, approval # 07-1596) and machine maintenance of the NITON XRF Analyzer.

ThermoFisher scientific



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Certificate Number

0033000000PLPgi

Date & Sile of Course

Director of Training

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### STATE OF MISSISSIPPI PHIL BRYANT GOVERNOR MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY GARV C. RIGARD, EXECUTIVE DIRECTOR

June 3, 2015.

Raymond P. Kennedy TIOGA Environmental Consultants Inc 357 North Main Street Memphis, Tennessee 38103

### Re: Certificate of Licensure Lead Risk Assessor Certification

Your application for certification as a Lead Risk Assessor has been approved by the Lead Certification Branch in accordance with the Mississippi Regulations for Lead-Based Paint Activities, Miss. Code Annotated Sections 49-17-501 through 49-17-531. Your Mississippi Certification number is PRA-00001519 which is reflected on your enclosed Mississippi Certification identification card or certificate.

Your Mississippi Certification is valid through Jun 2nd, 2016. In order to maintain certification as a Lead Risk Assessor, you must renew your license on or before the expiration date stated on your card or certificate and pay the renewal fee. If you should continue to perform lead-based paint activities after the expiration date, you will be in violation of the Mississippi Regulations for Lead-Based Paint Activities and may be cited for non-compliance.

It is your responsibility to ensure that you have met all the requirements for renewal of your lead certification.

If you have any questions, please feel free to contact Virginia Rickels at (601) 961-5777.

Sincerely,

Mr. Connie Simmons, P.E., Chief Asbestos & Lead Certification Branch

Enclosure

48405 LIC20150002

OFFICE OF POLLUTION CONTROL POST OFFICE Box 2261 • JACKSON, MISSISSIFTI 39225-2261• TEL: (601) 961-5171 • FAX: (601) 354-6612 • www.dcq.state.nis.us An Equal Opportunity Employer



### STATE OF MISSISSIPPI Phil Bryant Governor MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY GARV C. RIKARD, EXECUTIVE DIRECTOR

December 31, 2014

Tioga Environmental Consultants, Inc. 2574 Sam Cooper Boulevard 2nd Floor Memphis, Tennessee 38112

> Re: Certificate of Licensure Lead Based Abatement Firm Certification

Your application for certification as a Lead Based Abatement Firm has been approved by the Lead Certification Branch in accordance with the Mississippi Regulations for Lead-Based Paint Activities, Miss. Code Annotated Sections 49-17-501 through 49-17-531. Your Mississippi Certification number is PBF-00000035 which is reflected on your enclosed Mississippi Certification identification card or certificate.

Your Mississippi Certification is valid through Dec 30th, 2015. In order to maintain certification as a Lead Based Abatement Firm, you must renew your license on or before the expiration date stated on your card or certificate and pay the renewal fee. If you should continue to perform lead-based paint activities after the expiration date, you will be in violation of the Mississippi Regulations for Lead-Based Paint Activities and may be cited for non-compliance.

It is your responsibility to ensure that you have met all the requirements for renewal of your lead certification.

If you have any questions, please feel free to contact Virginia Rickels at (601) 961-5777.

Sincerely,

Mr. Connie Simmons, P.E., Chief Asbestos & Lead Certification Branch

Enclosure

52439 LIC20140004

OFFICE OF POLLUTION CONTROL Post Office Box 2261 • Jackson, Mississippi 39225-2261• Tel: (601) 961-5171 • Fax: (601) 354-6612 • www.deg.state.nis.us An Equal Opportunity Employer

State of Mississippi

Department of Environmental Quality Office of Pollution Control

### Certificate of Licensure

In accordance with the Lead-Based Paint Activity Accreditation and Certification Act, Mississippi Code Annotated Sections 49-17-501 through 49-17-531

Be it known that

### Tioga Environmental Consultants, Inc.

Having submitted acceptable evidence of qualifications and other appropriate information, is hereby granted this

### Lead Based Abatement Firm

**Certification** 

Certificate No.: PBF-00000035 Expiration Date: Dec 30th, 2015

Chief, Asbestos & Lead Certification Branch



### STATE OF MISSISSIPPI Phil. Bryant Governor: MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY GARY C. RIKARD, EXECUTIVE DIRECTOR

December 31, 2014

Tioga Environmental Consultants, Inc. 2574 Sam Cooper Boulevard 2nd Floor Memphis, Tennessee 38112

> Re: Certificate of Licensure Lead Renovator Firm Certification

Your application for certification as a Lead Renovator Firm has been approved by the Lead Certification Branch in accordance with the Mississippi Regulations for Lead-Based Paint Activities, Miss. Code Annotated Sections 49-17-501 through 49-17-531. Your Mississippi Certification number is NBF-00000035 which is reflected on your enclosed Mississippi Certification identification card or certificate.

Your Mississippi Certification is valid through Dec 30th, 2015. In order to maintain certification as a Lead Renovator Firm, you must renew your license on or before the expiration date stated on your card or certificate and pay the renewal fee. If you should continue to perform lead-based paint activities after the expiration date, you will be in violation of the Mississippi Regulations for Lead-Based Paint Activities and may be cited for non-compliance.

It is your responsibility to ensure that you have met all the requirements for renewal of your leadcertification.

If you have any questions, please feel free to contact Virginia Rickels at (601) 961-5777.

Sincerely,

Mr. Connie Simmons, P.E., Chief Asbestos & Lead Certification Branch

Enclosure

52439 LIC20140003

State of Mississippi

Department of Environmental Quality Office of Pollution Control

### Certificate of Licensure

In accordance with the Lead-Based Paint Activity Accreditation and Certification Act, Mississippi Code Annotated Sections 49-17-501 through 49-17-531

Be it known that

### Tioga Environmental Consultants, Inc.

Having submitted acceptable evidence of qualifications and other appropriate information, is hereby granted this

### Lead Renovator Firm

**Certification** 

Certificate No.: NBF-00000035 Expiration Date: Dec 30th, 2015

Chief, Asbestos & Lead Certification Branch

APPENDIX B

ASBESTOS HOMOGENEOUS SAMPLING AREAS TABLE



Homogeneous Sampling Areas Table Building 158 NAS Meridian

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		Friability	Functional Area	Quantity	Units	Condition	Samplo Rosults
158-01	Plastic Panel Covered Drywall with Associated	NF-11	Dining Room	128	s.f.	Good	NEGATIVE
158-01	Plastic Panel Covered Drywall with Associated	NF-II	Kitchen	. 80	s.f.	Good	NEGATIVE
158-01	Plastic Panel Covered Drywall with Associated	NF-II	Prep Area	832	s.f.	Good	NEGATIVE
158-01	Plastic Panel Covered Drywall with Associated	NF-II	Restroom	320	ŝ.	Good	NEGATIVE
158-01	Plastic Panel Covered Drywall with Associated Tan C	NF-IE	Foyer	224	s,f.	Good	NEGATIVE
			たちがある (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)				
			Total	1,584	3 F		
158-02	2' x 2' Drvivall Cailirin Panels	NF.II	Diñin Room		-	Ghad	NECATIVE
158-02	Г	1-	Office	19		Good	NEGATIVE
158-02		<b></b>	Klichen	180	5	Gand	NEGATIVE
158-02		NF-11	Prep Area	266	s.f.	Good	NEGATIVE
158-02	- T	NF-II	Restroom	96	s.f.:	Good	NEGATIVE
158-02	2' x 2' Drywall Celling-Panets	I-1I	Foyer	48	s.t.	Good	NEGATIVE
			Total	1,424	s:f.		
158-03	4" Blue Cove Base and Associated Clue	NF-II	Dining Room	16	Lf.	Good	NEGATIVE
			status and a substationary and I Totalia	16			
158-04			Dining Room	1.15	<u>;</u>	Good	NEGATIVE
158-04	- 1		Office	34	].f.	Good	NEGATIVE
158-04	4" Black Cove B	I NE-II	Foyer	28	1.1.	Good	NEGATIVE
			Total	4	j.		
158-05	White Caulk	NF-1	Prop Area	05	-	Good	NFCATIVE
	いたいない たい たいたい たいたい たいたい たいない たいたい たいたい			Structure and second			
				05	÷.		
i i i	Т						
158-06	Hoof Deck Insulation	Ľ	Throughout	1,404	s.f	Good	NEGATIVE
			ersen er som en som en som er som I fortalt	1,404	s.f.		
158-07	Black Glue Dode			44	•		
158-07	Black Glue Pods	Τ	Duing murdia Officio Mirrore			1000	PUSITIVE DOSITIVE
158-07		T	Restroom Mirrors	<u></u> ю	s.f.	Good	POSITIVE
							and the second
			10/01	130.	S.I.		

Homogeneous Sampling Areas Table Building 158	NAS Meridian
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HSA No.	Material Description	Friability	Functional Area	Quantity	Units	Quantity Units Condition	Sample Rosults
158-08	Grey Exterior Window and Door Frame Caulk	NF-1	West Side	.80	5	Good	NEGATIVE
158-08	Grey Exterior Window and Door Frame Caulk	NF-II	North Side	137	2	Good	NEGATIVE
158-08	Grey Exterior Window and Door Frame Cault	NF-IN	East Side	55	.,	Poor	NECATIVE
	「「「「「「「「」」」」「「「」」」」」「「「」」」」」」「「」」」」」」」」						
			Total	282	s.f,		
158-09	158-09 Roofing Materials	NF-1	Roof	1 512	, .	Good	NEGATIVE
	の様式の大学ななない。「「「「「「「「「」」」」」、「「」」」、「」」、「」」、「」」、「」」、「」	<u>, i</u> .	「「「「「「「」」」、「「」」、「」」、「」」、「」、「」、「」、「」、「」、「				
			Total	1,512	s.f.		
158-10	158-10 Ffashing	NF-I	Roof	164	st	Good	NEGATIVE
					A COMPANY	Supposition and the	
			Total	164	s.f.		
1007							
1 - 00 1	PO-I F ACCOUNTS WATERIALS	NF-1	Freezer Roof	144	s.f.	Good	NEGATIVE
			なるので、「「「「「「「「」」」」」」」」」」」」」」」」」」」」」」」」」」」」」				
			Total	144	s.f.		

<u>Unils</u> 1.1.: Unear Feet s.1.: Square Feel

 CONDITION:
 RESULTS:

 Good: Utile or no damage
 Positiva. Greater lhan 1% aspestos

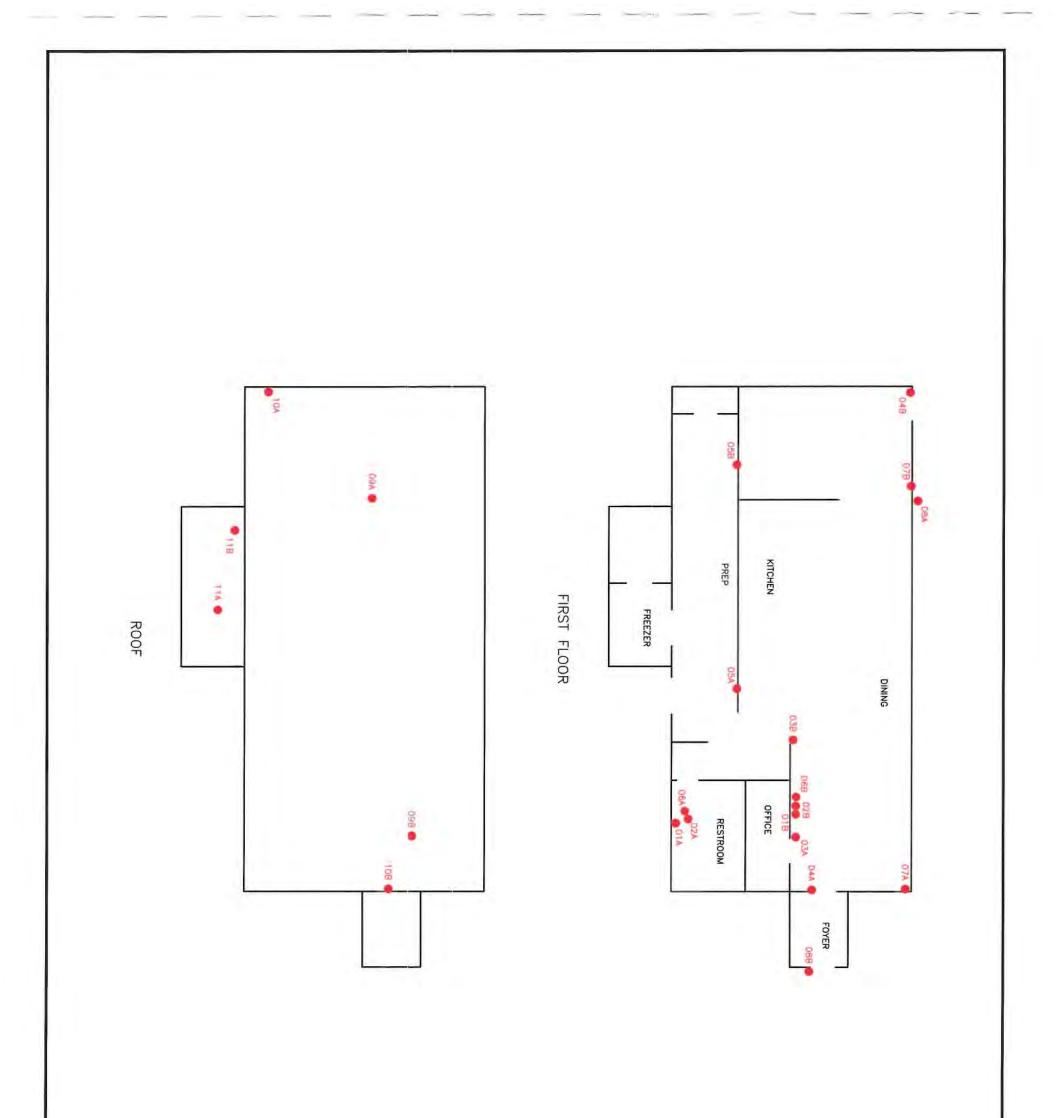
 Damaged: Less than 10% damage of lotal
 Positiva. Greater lhan 1% aspestos

 Damaged: Less than 10% damage in alxidore area, or less than 2% damage in alxidore area, or less than 2% damage in alxidore area, or less than 2% damage area, or greater than 2% damage area, or greater than 2% damage area, or greater than 2% damage in alxidore area, or greater than 2% damage area, or greater than 2% damage area



ASBESTOS SAMPLE LOCATIONS DIAGRAM

APPENDIX C



MERIC DRAWN CLW/08-17- REVISED JOB NO. 12047.01 DRAWING NUMBER 1204701-07H	ASBESTOS SURVEY BUILDING 158 (MOM'S D	
MERIDIAN, MISSISSIPPI PREPARED FOR NAVFAC SE MERIDIAN, MISSISSIPPI 18-17-15 CHECKED 18-17-15 CHECKED 10-17-15 CHECKED 10-17-15 CHECKED	LEGEND APPROXIMATE SAMPLE LOCATION NOT TO SCALE FIGURE 1.0 B (MOM'S DINER) - FIRST FLOOR	
	AND ROOF	2

APPENDIX D

### ASBESTOS LABORATORY ANALYTICAL REPORT





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1915 North 12th Street Toledo, OH 43604-5305 T 419-324-2222 F 419-241-1808 www.ttlassoc.com

Page 1 of 6

CLIENT:	NAVFAC Southeast Meridian 229 Allen Rot MERIDIAN, MISSISSIF	ad	<b>TE:</b> April 24, 2015
ATTN:	Mr. Jason Clayton		
	Project No.:	12047.01	
Lab Re	ceiving No.:	15-04-204384	
Da	te Received:	April 15, 2015	
Da	te Sampled:	April 9, 2015	
Proje	ct Location:	NAVFAC Southeast NAS Meridian Building 158 Meridian, Mississippi	
Sam	ple Point(s):	see analytical results	
	Performed:	Asbestos Analysis by PL. disclaimer	
This report to <u>PROF</u> desumes no respons	RIETARY AND CONFIDENTIAL and delivered	to, and minimized for the exclusive use of the above n reof by anyone other than the above named client.	arred client only. TTL Associates, ${\rm Inc}_{\rm cl}$
Reviewed	by: <u>Murun /.</u> Myron/V. Gasiorows	Habiorowki kl, Lab Supervisor	Date: 04/24/2015
Approved I	by: Jord Sara Vogelpohl, Teo	Voypull	Date: 04/24/2015
Environmental Servi	ices s	Geotechnical Services	Materials Testing

Page 2 of 6

### ANALYTICAL NARRATIVE

The note(s) below pertain to the sample(s) and analytical data reported herein;

Quantitative results are listed as approximate % asbestos. Results are based on calibrated visual estimation of materials. All results <1% asbestos (Trace) have been confirmed by the analysis of a duplicate slide. As per the method, all "negative" or BDL samples have been confirmed by triplicate analyses. Due to the nature of the samples the following measurements of uncertainty may apply:

% Asbestos	Uncertainty
1%	± 2%
5%	± 4%
10%.	± 5%
>20%	± 10%

Due to the complexity of analyzing floor tile by PLM, the client may want to consider having "negative" floor tiles analyzed further by an alternative method such as TEM.

Samples are archived by TTL Associates for a period of thirty days. Samples may be retained for a longer period of time or returned to the client upon written request.

### Laboratory Accreditation:

U.S. Department of Commerce, National Institute of Standards and Technology, National Voluntary Laboratory Accreditation Program (NVLAP), Lab #101594-0. Accredited to the 1982 Interim Method for the Determination of Asbestos in Bulk Insulation Samples, 40 CFR, Part 763, Subpart E, Appendix E and the "Method of the Determination of Asbestos in Bulk Building Materials", EPA/600/R-93/116, 7/93 Edition.

This report may not be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government. This report relates only to the items tested, and may not be reproduced, except in full, without the written approval of the laboratory.

### Report Key:

- BDL = Below Detection Level
- n/a = not applicable
- HSA = Homogeneous Sampling Area

Detection Level: 1% asbestos fibers greater than one micrometer in length.

						Page 3.of 6
METH( BATCh DATE /	Method Number: Batch Number; Date Analyzed:		EPA/600/R-93/116, July, 1993; 40 CFR, Ch. 1 (7-1-93 ed.), Part 763, Subpart F, Appendix A, pages 293-299 2PLM003115, 2PLM003415 April 22, 2015	Ch. 1 (7-1-93 ed.), P	art 763, Subpart F, Append	ix A, pages 293-299
ANALYST:	'ST:		Myron Gasiorowski			
LAB No.	Sample ID	HSA No.	SAMPLE LOCATION	LAYER DESCRIPTION	NON-ASBESTOS COMPONENTS	APPROXIMATE % ASBESTOS
222677	1204701-158-01A Layer A	158-01	Restroom, south wall, drywall	White Gypsum Board	98% Binder, 1% Cellulose, 1% Fiberglass	BDL
222677	1204701-158-01A Layer B	158-01	same	Tan Backing	100% Cellulose	BDL
222677	1204701-158-01A Layer C	158-01	Same	Yellow Glue	100% Binder	BDL
222677	1204701-158-01A Layer D	158-01	same	White Wall Covering	85% Binder, 15% Fiberglass	BDL
222678.	1204701-158-016 Layer A	158-01	Dining room, south wall, east end, drywall	White Gypsum Board	98% Binder, 1% Cellutose, 1% Fiberglass	BDL
222678	1204701-158-01B Layer B	158-01	same	Green Backing	100% Cellulose	BDL
222678	1204701-158-01B Layer C	158-01	same	White Glue	100% Binder	BDL
222678	1204701-158-01B Layer D	158-01	នងកាខ	White Wall Covering	85% Binder, 15% Fiberglass	BDL
222679	1204701-158-02A Layer A	158-02	Restroom, south wall, 2' x 2' peiting tile	White Gypsum Board	98% Binder, 2% Fiberglass	BDŁ
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POLARIZED LIGHT MICROSCOPY ANALYTICAL RESULTS

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POLARIZED LIGHT MICROSCOPY ANALYTICAL RESULTS

Page 4 of 6 APPROXIMATE % ASBESTOS EPA/600/R-93/116, July, 1993; 40 CFR, Ch. 1 (7-1-93 ed.), Part 763, Subpart F, Appendix A, pages 293-299 BDL BDL BDL BDL. BDL BDL BDL BDL BDL BDL NON-ASBESTOS COMPONENTS 100% Cellulose 98% Binder, 2% Fiberglass 100% Cellulose 100% Binder LAYER DESCRIPTION White Gypsum Board White Covering White Covering Tan Backing Blue Molding Black Molding Tan Backing Blue:Molding White Glue White Glue Dining room, east wall, 4" black cove base Dining room, south wall, east end, Dining room, south wall, east end, Dining room, south wall, east end, 2PLM003115, 2PLM003415 SAMPLE LOCATION 4" blue cove base 4" blue cove base 2' x 2' ceiling tile Myron Gasiorowski sarne same same same same same April 22, 2015 HSA No. 158-02 158-03 158-02 158-02 158-02 158-02 158-03 158-03 158-03 158-04 1204701-158-02B Layer A 1204701-158-02B Layer B 1204701-158-03B Layer À 1204701-158-028 Layer C 1204701-158-02A Layer B 1204701-158-02Å Layer C **METHOD NUMBER:** 1204701-158-03A Layer A 1204701-158-03A Layer B 1204701-158-03B Layer B 1204701-158-04A Layer A Sample ID DATE ANALYZED: **BATCH NUMBER:** ANALYST: LAB No. 222680 222679 222679 222680 222680 222681 222681 222682 222682 222683

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Construction of the local distance

Page 5 of 6 APPROXIMATE % ASBESTOS EPA/600/R-93/116, July, 1993; 40 CFR, Ch. 1 (7-1-93 ed.), Part 763, Subpart F, Appendix A, pages 293-299 BDL BDL BDL BDL BDL BDL BDL BDL BDL NON-ASBESTOS 4% Binder, 96% Mineral Wool 10% Cellulose, 10% Fiberglass COMPONENTS 96% Mineral Wool 100% Binder 100% Binder 100% Binder 100% Binder 100% Binder 80% Binder, 100% Binder 4% Binder, LAYER DESCRIPTION Yeltow Insulation Yellow Insulation Silver Foil Wrap Black Molding White Glue White Caulk Beige Glue Clear Caulk Clear Glue ANALYTICAL RESULTS Preparation area, north wall, white caulk Preparation area, north wall, white caulk Restroom, south wall, deck insulation Dining room, south wall, east end, Dining room, northwest corner, 2PLM003115, 2PLM003415 SAMPLE LOCATION 4" black cove base deck insulation Myron Gasiorowski same same same same April 22, 2015 HSA No. 158-04 158-04 158-04 158-05 158-05 158-06 158-06 158-06 158-06 1204701-158-048 Layer A 1204701-158-048 Layer B 1204701-158-04A Layer B **METHOD NUMBER:** 1204701-158-05A 1204701-158-06A Layer C 1204701-158-058 1204701-158-06A Layer A 1204701-158-06A Layer B 1204701-158-06B. Layer A Sample ID DATE ANALYZED: **BATCH NUMBER:** ANALYST: LAB No. 222683 222684 222686 222684 222685 222687 222687 222688 222687

POLARIZED LIGHT MICROSCOPY

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POLARIZED LIGHT MICROSCOPY ANALYTICAL RESULTS

**APPROXIMATE %** 12% Chrysotile 12% Chrysotile ASBESTOS EPA/600/R-93/116, July, 1993; 40 CFR, Ch. 1 (7-1-93 ed.), Part 763, Subpart F, Appendix A, pages 293-299 BDL BDL BOL BDL 60% Binder, 30% Cellulose, 10% Fiberglass NON-ASBESTOS COMPONENTS 100% Binder 100% Binder 100% Binder 88% Binder 88% Binder LAYER DESCRIPTION Silver Grey Caulk Tan/Silver Foll Wrap Black Glue. Black Glue Clear Caulk Clear Glue Dining room, north wall, west end, Exterior, north wall, grey caulk. Dining room, northeast corner, black glue pods 2PLM003115, 2PLM003415 Exterior, east wall, grey caulk SAMPLE LOCATION black glue pods Myron Gasiorowski same same April 22, 2015 HSA No. 158-06 158-06 158-07 158-08 158-07 158-08 1204701-158-06B Layer B 1204701-158-06B Layer C 1204701-158-07B **METHOD NUMBER:** 1204701-158-07A 1204701-156-08A 1204701-158-08B Sample ID DATE ANALYZED: BATCH NUMBER: ANALYST: LAB No. 222690 222688 222688 222689 222691 222692

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POLARIZED LIGHT MICROSCOPY ANALYTICAL RESULTS

Page 6 of 6 **APPROXIMATE %** 12% Chrysofile 12% Chrysotile ASBESTOS EPA/600/R-93/116, July, 1993; 40 CFR, Ch. 1 (7-1-93 ed.), Part 763, Subpart F, Appendix A, pages 293-299 BDL BDL BDL NON-ASBESTOS COMPONENTS 60% Binder, 30% Cellulose, 10% Fiberglass 100% Binder 88% Binder 100% Binder 88% Binder LAYER DESCRIPTION Silver Grey Caulk Tan/Silver Foil Black Glue Clear Glue Black Glue Wrap Dining room, north wall, west end, black glue pods Dining room, northeast corner, black glue pods 2PLM003115, 2PLM003415 Exterior, north wall, grey caulk Exterior, east wall, grey caulk SAMPLE LOCATION Myron Gasiorowski same same April 22, 2015 HSA No. 158-06 158-06 158-07 158-07 158-08 158-08 1204701-158-06B Layer B 1204701-158-06B Layer C 1204701-158-07A 1204701-158-07B 1204701-158-08A **METHOD NUMBER:** 1204701-158-08B Sample ID DATE ANALYZED: BATCH NUMBER: ANALYST: LAB No. 222688 222690 222691 222692 222688 222689

BDL

100% Binder

Ctear Caulk

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1915 North 12th Street Toledo, OH 43604-5305 T 419-324-2222 F 419-241-1808 www.ttlassoc.com

Page 1 of 5

CLIENT:	NAVFAC Southeast Meridian 229 Allen Roa MERIDIAN, MISSISSIP		DATE: July 22, 2015
ATTN:	Mr. Jason Clayton		
	Project No.:	12047.01	
Lab Re	ceiving No.:	15-06-204465	
Dat	te Received:	June 22, 2015	
Da	te Sampled:	June 3, 2015	
Proje	ct Location:	NAVFAC Southeast NAS Meridían Building 158 Roof Meridian, Mississippi	
Sam	ple Point(s):	see analytical result	3
Analysis	Performed:	Asbestos Analysis b	y PLM
		DISCLAIMER	
This report of SPROF andess on semiase	RIETARY AND CONFIDENTIAL" and delivered (billy or flability for the reliance herein or use he	to, and inlended for the exclusive use of the registry anyone other than the above name	above named client only. "TTL Associates, inc., d client.
Reviewed		Janowski	Date: 07/21/2015
Approved I	Vina	VoyAue	Date: 07/22/2015
Environmental Servi	ices 🔹	Geotechnical Services	• Materials Testing

#### ANALYTICAL NARRATIVE

The note(s) below pertain to the sample(s) and analytical data reported herein:

Quantitative results are listed as approximate % asbestos. Results are based on calibrated visual estimation of materials. All results <1% asbestos (Trace) have been confirmed by the analysis of a duplicate slide. As per the method, all "negative" or BDL samples have been confirmed by triplicate analyses. Due to the nature of the samples the following measurements of uncertainty may apply:

% Asbestos	Uncertainty
1%	± 2%
	± 4%
10%	± 5%
>20%	± 10%

Due to the complexity of analyzing floor tile by PLM, the client may want to consider having "negative" floor tiles analyzed further by an alternative method such as TEM.

Samples are archived by TTL Associates for a period of thirty days. Samples may be retained for a longer period of time or returned to the client upon written request.

#### Laboratory Accreditation:

U.S. Department of Commerce, National Institute of Standards and Technology, National Voluntary Laboratory Accreditation Program (NVLAP), Lab #101594-0. Accredited to the 1982 Interim Method for the Determination of Asbestos in Bulk Insulation Samples, 40 CFR, Part 763, Subpart E, Appendix E and the "Method of the Determination of Asbestos in Bulk Bullding Materials", EPA/600/R-93/116, 7/93 Edition.

This report may not be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government. This report relates only to the items tested, and may not be reproduced, except in full, without the written approval of the laboratory.

#### Report Key:

- BDL = Below Detection Level
- n/a = not applicable
- HSA = Homogeneous Sampling Area

Detection Level: 1% asbestos fibers greater than one micrometer in length.

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WETHC	WETHOD NUMBER:		EPA/600/R-93/116, July, 1993; 40 CFR, Ch. 1 (7-1-93.ed.), Part 763, Subpart F, Appendix A, pages 293-299	Ch. 1 (7-1-93 ed.), Pa	art 763, Subpart F, Appendi	A, pages 293-299
BATCH	<b>BATCH NUMBER:</b>		2PLM011215		· • •	2
DATE /	DATE ANALYZED:		July 21, 2015			
ANALYST:	ST:		Myron Gasiorowski			
LAB No.	Sample ID	HSA No.	SAMPLE LOCATION	LAYER DESCRIPTION	NON-ASBESTOS COMPONENTS	APPROXIMATE % ASBESTOS
224032	1204701-158-09A Layer A	158-09	Robfing	Black Tar Roofing	92% Binder, 8% Synthetic Fibers	BDL
224032	1204701-158-09A Layer B	158-09	same	Black Tar	80% Binder, 20% Cellulose	BDL
224032	1204701-158-09A Laver C	158-09	same	Brown Wood	100% Cellulose	BDL
224033	1204701-158-09B Layer A	158-09	Roofing	Black Tar Fabric	94% Binder, 6% Fiberglass	BDL
224033	1204701-158-09B Layer B	158-09	same	Black Tar Roofing	92% Binder, 8% Synthetic Fibers	BDL
224033	1204701-158-09B Layer C	158-09	same	Black Tar	80% Binder, 20% Cellulose	BDL
224034	1204701-158-10A Layer A	158-10	Flashing.	Black Tar Roofing	90% Binder, 10% Synthetic Fibers	BDL
224034	1204701~158~10A Layer B	158-10	same	Black Tar	100% Binder	BDL
224034	1204701-158-10A Layer C	158-10	same	Black Tar	65% Binder, 35% Cellulose	BDL
224034	1204701-158-10A Layer D	158-10	same	Black far Roofing	90% Binder, 10% Cellulose	BDL

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POLARIZED LIGHT MICROSCOPY ANALYTICAL RESULTS

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METHC	METHOD NUMBER:		EPA/600/R-93/116, July, 1993; 40 CFR, Ch, 1 (7-1-93 ed.), Part 763. Subpart F. Appendix A. panes 293-299	Ch. 1 (7-1-93 ed.). Pa	nt 763. Subpart F. Appendi	x A. panes 293-299
BATCH	BATCH NUMBER:		2PLM011215			
DATE /	DATE ANALYZED:		July 21, 2015			
ANALYST:	ST:		Myron Gasiorowski			
LAB No.	Sample ID	HSA No.	SAMPLE LOCATION	LAYER DESCRIPTION	NON-ASBESTOS COMPONENTS	APPROXIMATE % ASBESTOS
224034.	1204701-158-10A Layer E	158-10	same	Black Tar Roofing	90% Binder, 10% Cellulose	BDL
224035	1204701-158-10 <u>8</u> Layer A	158-10	Flashing	Black Tar Roofing	92% Binder, 8% Synthetic Fibers	BDL
224035	1204701-156-10B Layer B	158-10	same.	Black Tar	100% Binder	BDL
224035	1204701-158-10B Layer C	158-10	same	Black Tar Paper Roofing	92% Binder, 8% Cellulose	BDL
224036	1204701-158-11A Layer A	158-11	Freezer roofing	White Coating	100% Binder	PDR
224036	1204701-158-11A Layer B	158-11	same	White Fabric Sheet	88% Binder, 12% Synthetic Fibers	BDL
224036	1204701-158-11A Layer C	158-11.	same	Silver/Tan Foil Backing	40% Bínder, 60% Cellulose	BDL
224036	1204701-158-11A Layer D	158-11	same	White Foam Insulation	100% Binder	BDL
224037	1204701-158-11B Layer A	158-11	Freezer roofing	White Coating	100% Binder	BDL
224037	1204701-158-11B Layer B	158-11	same	White Sheet	88% Binder, 12% Synthetic Fibers	BDL

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POLARIZED LIGHT MICROSCOPY ANALYTICAL RESULTS

Page 5 of 5 APPROXIMATE % ASBESTOS EPA/600/R-93/116, July, 1993; 40 CFR, Ch. 1 (7-1-93 ed.), Part 763, Subpart F, Appendix A, pages 293-299 BDL BDL NON-ASBESTOS COMPONENTS 40% Binder, 60% Cellulose 100% Binder LAYER DESCRIPTION Silver/Tan Foil Backing White Foam Insulation SAMPLE LOCATION Wyron Gasiorowski same same July 21, 2015 2PLM011215 HSA No. 158-11 158-11 1204701-158-11B Layer C 1204701-158-118 Layer D **METHOD NUMBER:** Sample ID DATE ANALYZED: **BATCH NUMBER:** ANALYST: LAB No. 224037 224037

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Stip To Address: ATTN: RECEIVING LAB, 1915 North 12th St. Toledo, OH 43604:5305 915 North 12th St. Toledo, OH 43604-5305; Voice 419-324-2222, Fax 419-241 : 1808

**Chain of Custody Record** 

Kun person ⊡by courter Din field ⊡in lab, Xuvi Din field ⊡in lab, Xuvi Xves L no 17 N/A 21 yes no 21 yes 21 no 2000 rejected Vi yes and Dives Thro 224035 224036 TAT 224054 224032 224/033 220034 Jo T age T Jo Lab # X accepted AINO BSN BWT Was shipping Jabel completed properly per regulations? Preserved Yes/No Were samples packaged properly for type of material? Parameters LAB USE ONLY Was container labeled properly for contents? Did samples arrive intact and sealed? C. I Parts Were proper containers used? Wete samples preserved Were sumples delivered (49 CFR 170, etc.) Temp of samples Samples were Try 1.6 Comments: 1. Potal No. of Containers 23 ж.  $\mathbf{x}_{i}$ 1 \* -----/941.H94 ...... (Hill) lime Time Tine Time Date Sampler's Name Date Date FRICES NUMBER VELCET<u>E RUN</u> -Otstitlseuter: Otgiest sours one accompanies taianient (waite and yeitawa - opy far aoodinative to a files (park) -Sample Location Other ReeF M. 17. 11 V V - 4 Rest. Sampler's Signature Detroit Received By: Received By: Received By: Client MA 9 / NovAN 2012 Junus. 🗭 foledo 🔮 Plymouth 🖉 Time \$ \$ 04 20 Тіте Time Matrix Time Project/Location: de total Date Date Date Date Sec. 3 Type -Time Sampled ч Х Seht From: Date Sampled ATAN ALSA Project No. 172 MAY 4 1.18 - 0.30 についます ltem | Relinquished By: No. **Relinquished By!** ltem Relinquished By: No. ltem | Relinguished By-No. CUV- 3.4 Sec. 7.54 \* 14 CINE 20 (11 - N - N - N Sample I.D. Project Mgr.: Phone No. P.O. No. tem No.  $\sim$ en. ÷ Ln. ø ĸ c G 10 °N N

PL/60 STAT

APPENDIX E

# ACM SAMPLE LOCATION PHOTOGRAPHIC DOCUMENTATION





HSA 158-01: Plastic Panel Covered Drywall with Associated Tan Glue. Sample A.



HSA 158-01: Plastic Panel Covered Drywall with Associated Tan Glue. Sample B.



HSA 158-02: 2' x 2' Drywall Ceiling Panel. Sample A.



HSA 158-02: 2' x 2' Drywall Ceiling Panel. Sample B.



HSA 158-03: 4" Blue Cove Base and Associated Glue. Sample A.



HSA 158-03: 4" Blue Cove Base and Associated Glue. Sample B.



HSA 158-04: 4" Black Cove Base and Associated Glue. Sample A.



HSA 158-04: 4" Black Cove Base and Associated Glue. Sample B.



HSA 158-05: White Caulk. Sample A.



HSA 158-05: White Caulk. Sample B.

TTL Project No. 12047.01

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HSA 158-06: Roof Deck Insulation. Sample A.



HSA 158-06: Roof Deck Insulation. Sample B.



HSA 158-07: Black Glue Pods. Sample A.



HSA 158-07: Black Glue Pods. Sample B.



HSA 158-08: Grey Exterior Window and Door Frame Caulk. Sample A.



HSA 158-08: Grey Exterior Window and Door Frame Caulk. Sample B.



HSA 158-09: Roofing Materials. Sample A.



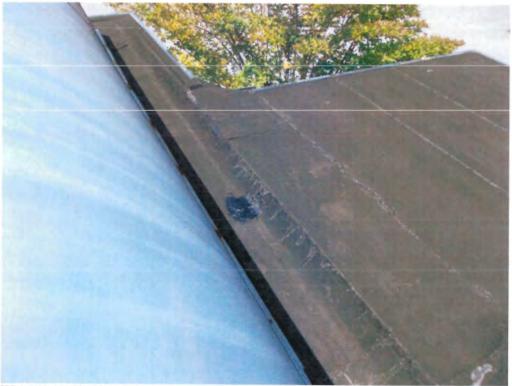
HSA 158-09: Roofing Materials. Sample B.

TTL Project No. 12047.01

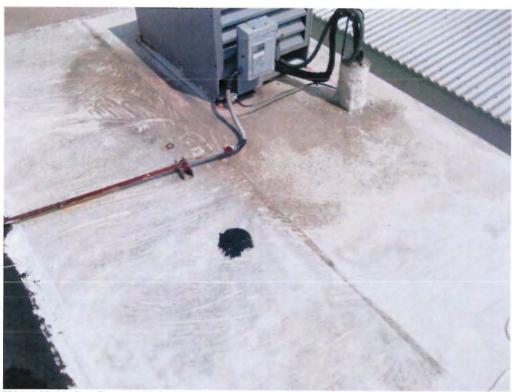
September 2015 Page 9 of 11



HSA 158-10: Flashing. Sample A.



HSA 158-10: Flashing. Sample B.



HSA 158-11: Roofing Materials. Sample A.



HSA 158-11: Roofing Materials. Sample B.

**APPENDIX F** 

XRF ANALYZER DATA TABLE



XRF Analyzer Data Table Building 158 NAS Meridian

	TIME	COMPONENT FEATURE SUBSTRATE COLOR SIDE	FEATURE	SUBSTRATE	COLOR	SIDE	CONDITION	ROOM	SITE	INSPECTOR	RESULTS	LEAD CONTENT	XRF ANALYZER ERROR (+/-)	UNITS
/16/	4/16/2015 15:32							CALIBRATE	NAS MERIDIAN	KENNEDY	NEGATIVE	6.0	0.1	mg / cm ^2
116/	2015 15:34							CAUBHATE	NAS MERIDIAN	KENNEDY	POSITIVE	The last	10	me / cm ^2
/16	/2015 15:36							CALIBRATE	NAS MERIDIAN	KENNEDV	POSITIVE	1	0.1	me / cm *2
/16	4/16/2015 16:20	DOOR	CASING		WHITE	A	INTACT	OFFICE	bldg 158	KENNEDY	NEGATIVE	0	0.02	mg / cm ^2
116	4/16/2015 16:20	DOOR	JAMB		WHITE	A	INTACT	OFFICE	bldg 158	KENNEDY	NEGATIVE	0	0.02	mg / cm ^2
116	4/16/2015 16:20	DOOR	CASING		WHITE	A	INTACT	OFFICE	bldg 158	KENNEDY	NEGATIVE	0	0.02	mg / cm ^2
11	4/16/2015 16:21	DOOR			WHITE	A	INTACT	OFFICE	bldg 158	KENNEDY	NEGATIVE	0	0.02	mg / cm ^2
3	4/16/2015 16:21	DOOR			WHITE	A	INTACT	OFFICE	bldg 158	KENNEDY	NEGATIVE	0	0.02	mg / cm ^2
2	4/16/2015 16:23	CEILING	BEAM	METAL	RED	A	INTACT	DINING ROOM	bldg 158	KENNEDY	NEGATIVE	0	0.02	mg / cm ^2
2	4/16/2015 16:28	PIPE		METAL	WHITE	υ	INTACT	EXTERIOR	bldg 158	KENNEDY	NEGATIVE	0	0.02	mg / cm ^2
5	4/16/2015 16:32							CALIBRATE	NAS MERIDIAN	KENNEDY	NEGATIVE	0.9	0.1	mg / cm ^2
5	4/16/2015 16:34						-	CALIBRATE	NAS MERIDIAN	KENNEDY	NEGATIVE	0.8	0.1	mg / cm ^2
5	4/16/2015 16:36							CALIBRATE	NAS MERIDIAN	KENNEDY	NEGATIVE	6.0	0.1	me / cm ^2

mg / cm ^2. miligrams per square centimeter XRF Analyzer Error (+/-): XRF Analyzer instrument analytical uncertainty range

# REPORT OF LEAD-BASED PAINT INSPECTION AND ASBESTOS SURVEY

# BUILDINGS 177, 178 & T23 NAS MERIDIAN MERIDIAN, MISSISSIPPI

NAS Meridian Public Works Department 229 Allen Road Meridian, Mississippi 39309-5003

Date of Issue: May 7, 2007

Prepared for:

Prepared by: Unified Testing & Engineering Services, Inc.

UTS File Number: E-NA02-750-002

UNIFIED TESTING & ENGINEERING SERVICES, INC. 304 Canyon Park Drive - Pelham Alabama 35124 - Telephone 205.664.3641 - Facsimile 205.621.7136

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UNIFIED TESTING & ENGINEERING SERVICES, INC. 304 Canyon Park Drive • Pelham Alabama 35124 • Telephone 205.664.3641 • Facsimile 205.621.7136

May 7, 2007

NAS Meridian Public Works Department 229 Allen Road Meridian, Mississippi 39309-5003

Attention: Mr. Herbert Joyner

Subject: Lead-Based Paint and Asbestos Inspection Buildings 177, 178 & T23 NAS Meridian, Mississippi UTS Project Number E-NA02-750-002

Dear Mr. Joyner:

On April 26, 2007, Unified Testing & Engineering Services, Inc. (UTS) representative James A. Matthews visited the subject site. The purpose of the visit was to sample and analyze typical suspect asbestos containing materials and lead-based paint containing surfaces at the subject buildings. The asbestos survey was performed in general accordance with AHERA guidelines for asbestos inspection and the lead-based paint inspection was conducted in general accordance with EPA and HUD Guidelines. Please note that the observations and testing are not intended to meet health related requirements. They are intended to provide general locations of identified asbestos containing materials (ACMs) and lead-based paint in the subject buildings.

Lead-based paint containing surfaces were identified at the subject facilities. Asbestos containing materials were not identified in the subject facilities. This report includes a narrative summary of the testing results and actual field data for the location tested including associated calibration information.

Upon review of this report, if you have questions or if we may provide additional information, please contact our office at your convenience. We appreciate the opportunity to be of service.

Respectfully submitted, Unified Testing & Engineering Services, Inc.

me C. Matte

James A. Matthews Asbestos Inspector No. I-006335 Lead-Based Paint Inspector No. 30-1000005

Judith A. Pike, P.E. Environmental Operations Manager

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#### APPENDICES

Appendix A	Calibration Check Test Results

- Appendix B XRF Computer Printout
- Appendix C Laboratory Analysis and Chain of Custody Record
- Appendix D Site Diagram
- Appendix E Photographs

## REPORT OF LEAD-BASED PAINT AND ASBESTOS SURVEY

# **BUILDINGS OFF FLIGHT LINE NAS MERIDIAN, MISSISSIPPI**

#### **1.0 INTRODUCTION**

Unified Testing & Engineering Services, Inc. (UTS) representatives performed a lead-based paint inspection and asbestos survey for the buildings designated as 177, 178 & T23 on April 26, 2007. The inspection was performed in an attempt to identify areas of lead-based paint and to collect and analyze typical suspect asbestos-containing materials in the facilities scheduled for demolition or renovation. The following report and enclosed data provides a summary of the findings of this survey. Please note that UTS did not inspect or survey the subject facilities for any environmental concerns other than the lead-based paint and asbestos.

#### 2.0 SITE INFORMATION

The subject buildings are situated at the Naval Air Station (NAS) in Meridian, Mississippi. The dates of construction are unknown. The buildings were not identified by addresses but were numbered 177, 178 & T23.

#### 3.0 LEAD-BASED PAINT INSPECTION PROCEDURES

On April 26, 2007, UTS representative James A. Matthews mobilized to the subject facilities. Utilizing a Niton XI. Model 309 XRF unit, the technician performed an inspection of the painted surfaces of the facility.

The Lead-Based Paint XRF Test Results found in Appendix B indicate the results delivered by the Niton Model 309 XRF manufacturer's programming format for positive or negative results based upon HUD guidelines for LBP. HUD considers an XRF test indicating paint in concentrations of 1.0 milligrams per square centimeter (mg/square cm) or greater as positive; concentrations less than 1.0 mg/ square cm are considered negative. The actual lead content results are provided in the column labeled PbL. In test where lead was indicated, the XRF was operated to a precision of  $\pm$  or - 0.1 mg/square cm. Locations of components tested are designated as sides A, B, C and D, with Side A being the side of the structure containing the main entrance. Sides B, C and D are labeled in a clockwise manner around the structure to describe testing locations of both exterior and interior components.

Upon start-up of the Niton XL, the machine performs a shutter calibration. Another shutter calibration was performed at the close of testing. A total of 2 shutter calibrations was performed. During the inspection Mr. Matthews made 2 calibration checks of the Niton XL for a total of 6 tests during the inspection. The inspection included 52 more tests, for a total of 60 XRF tests performed at the subject property. Appendix A is the calibration checklist. Appendix B includes the XRF computer printout, which lists the XRF number, location, and results of each test. A diagram of the subject area is included in Appendix D.

#### 4.0 POSITIVE RESULTS

The following table summarizes locations of lead-based paint containing components detected in concentrations of 1.0 mg/cm squared or greater as defined by HUD. For specific test locations and results, please refer to Appendix B of this report.

T	ABLE 1: 10	DENTIFIED 1	ÆAÐ-I	BASED PAI	NT CONTAIN	ING COMP	ONENTS	
Site	XL Number	Location	Side	Source	Feature	Substrate	Color	Condition
Building 177	41	Wash Area	D	Ext Wall	Signage	Concrete	Yellow	Intact
Building 177	43	Wash Area		Ext Floor	Signage	Concrete	Yellow	Intact
Building 177	50	Outside	D	Wall	Storage Box	Metal	Yellow	Intact
T23 Cell	56	Cable Tray	D	Pan		Metal	Yellow	Intact

### 5.0 ASBESTOS SURVEY AND SAMPLING STRATEGY

A walk-through visual inspection for suspect Asbestos Containing Materials (SACMs) was performed within the subject buildings. Materials suspected of containing asbestos were noted as to type and location. The suspect asbestos-containing materials (ACMs) sampled are as follows:

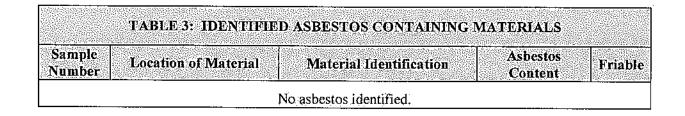
TABLE 2: SAMPLED SUSPECT ASBESTOS MATERIALS						
Sample Number	Building Designation	Location of Material	Material Identification			
178-1-1	Building 178	Roof	Roofing			
178-2-1	Building 178	Room 1	Drywall			
178-2-2	Building 178	Bath	Drywall			
178-3-1	Building 178	Room 1	12" x 12" Floor Tile			
178-3-2	Building 178	Room 1	12" x 12" Floor Tile			

#### 6.0 LABORATORY ANALYSIS AND RESULTS

Suspect asbestos bulk samples obtained were shipped with a relevant chain of custody to MAS, LLC. MAS, LLC is accredited under the National Institute of Standards and Technology (NIST) National

Buildings 177, 178 & T23 NAS Meridian, Mississippi Voluntary Laboratory Accreditation Program (NVLAP), Accreditation No. 1165. Samples were analyzed using Polarized Light Microscopy (PLM) and dispersion staining. This procedure is described in an Appendix to EPA CFR 763. Polarized light microscopy is a technique that is used to identify asbestos fibers by their shape and unique optical properties. The percentage composition of each bulk sample was visually estimated. This is EPA's preferred method for analyzing bulk material samples for asbestos.

Detailed results of the laboratory analysis for each SACM sample are attached at the end of this report. The following materials were identified or assumed to be asbestos-containing materials:



#### 7.0 RECOMMENDATIONS

Based on the results of the lead-based paint and asbestos inspection, the following actions are recommended:

Lead-based paint was identified in subject building T23 and in numerous areas of the subject building 177. Disturbance, including removal, of these components and materials should be undertaken by appropriate trained personnel in accordance with OSHA, EPA, HUD and all federal, state and local regulations.

Some painted surfaces may contain levels of lead below 1.0 mg/cm<sup>2</sup>. These components could create lead dust or lead contaminated soil hazards if the paint is turned into dust by abrasion, scraping or sanding. If conditions of intact paint surfaces become destabilized, these conditions will need to be addressed in the future. If any construction or modernization work is done on the premises, this report should be given to the contractors as well as the employees.

#### 8.0 NOTES AND COMMENTS

The scope of our service was limited to providing a lead-based paint inspection and asbestos survey in areas scheduled for renovation, UTS did not perform a lead-based paint risk assessment or consultation for this project. Should the testing provided indicate the presence of lead-based paint or asbestos you may contact UTS to provide additional services or you may contact one of the following for assistance:

- Local Health Department
- US Environmental Protection Agency
- US Department of Housing and Urban Development.
- Nearest Poison Control Center

Please note that lead-based paint and asbestos containing materials should not be disturbed without proper training and equipment.

LBP Inspection and Asbestos Survey UTS Project Number E-NA02-750-002

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Buildings 177, 178 & T23 NAS Meridian, Mississippi

#### 9.0 DISCLOSURE STATEMENT

A copy of this report must be provided to purchasers and made available to new tenants of this property under Federal law (24 CFR part 35 and 40 CFR part 745) before they become obligated under a lease or sales contract. Landlords and sellers are also required to distribute an educational pamphlet and include standard warning language in their leases or sales contracts to ensure that parents have the information they need to protect their children from lead-based paint hazards.

- END OF REPORT -

# **APPENDIX A**

# CALIBRATION CHECK TEST RESULTS

LBP Inspection and Asbestos Survey UTS Project Number E-NA02-750-002

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Buildings 177, 178 & T23 NAS Meridian, Mississippi

Address;	Flight	Line Bldgs.		
	NAS A	Line Blogs. Kidion M.S.		
Device:	Niton XL 309	7		U901NR7756
				口 U611NR7972
Contractor Name:	Unified Testing & En	gineering Services, Inc	. Date:	4/20/07
nspector Name:	James A. Matthews (I	RA0706M0674)	Signature:	Jann a. Matte
NIST SRM Used			······································	
MIDI AKIM Used	1.0 mg/cm <sup>2</sup>	Cal	ibration Check Tolerance	Used ± ( mg/cm
First Calibration Cl				
First Reading	NIST SRM Second Reading		First Average	Difference Between First
1.0		Third Reading	* **** * * * * * * *	Average and NIST SRM*
# Z	# 3	1.0	· · · · · · · · · · · · · · · · · · ·	
Second Calibration	Check			
Di-th W	NIST SRM		0i	Difference Between Second
First Reading	Second Reading	Third Reading	Second Average	Average and NIST SRM*
<u>lil</u>	1.0	1.1		
# 57	4 58	# 59		
~ S (				
-	herk (if required)			
Third Calibration C	heck (if required) NIST SRM			
-		Third Reading	Third Average	Difference Between Third Average and NIST SRM*
Third Calibration C	NIST SRM	Third Reading	Third Average	Difference Between Third Average and NIST SRM*
Third Calibration C	NIST SRM	Third Reading	Third Average	Difference Between Third Average and NIST SRM*
Third Calibration C First Reading	NIST SRM Second Reading	Third Reading	Third Average	Difference Between Third Average and NIST SRM*
Third Calibration C	NIST SRM Second Reading	Third Reading	Third Average	Difference Between Third Average and NIST SRM*
Third Calibration C First Reading Fourth Calibration (	NIST SRM Second Reading Check (if required) NIST SRM		Third Average Fourth Average	Average and NIST SRM*
Third Calibration C First Reading	NIST SRM Second Reading	Third Reading Third Reading		Average and NIST SRM*

LBP Inspection and Asbestos Survey UTS Project Number E-NA02-750-002

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## **APPENDIX B**

XRF COMPUTER PRINTOUT

LBP Inspection and Asbestos Survey UTS Project Number E-NA02-750-002

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## **APPENDIX C**

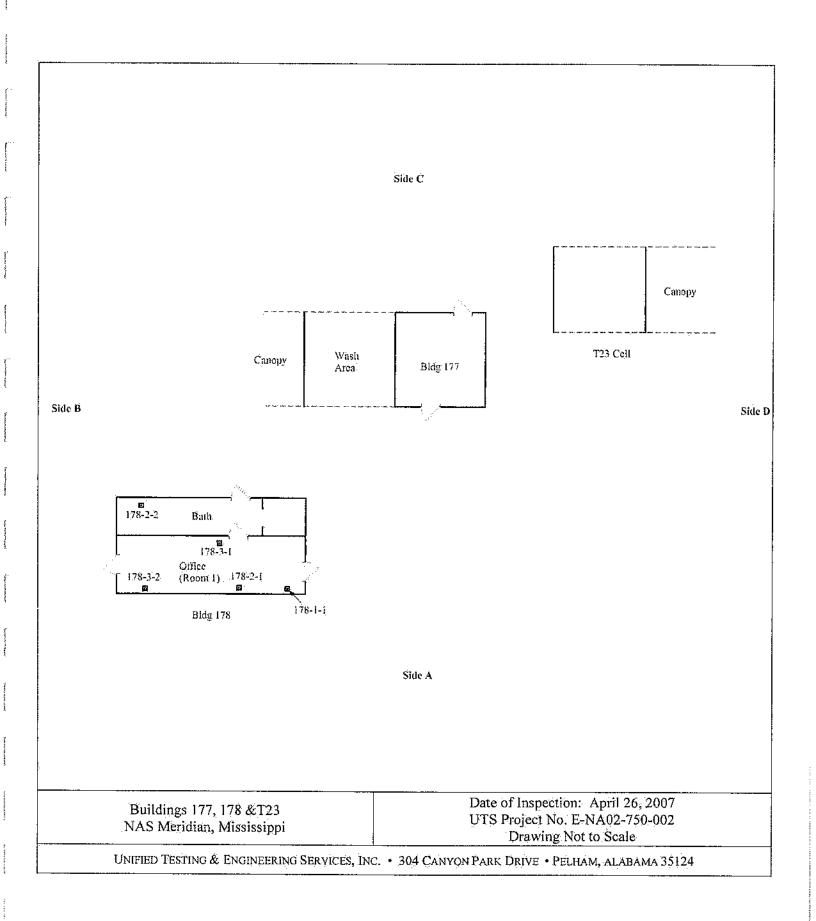
LABORATORY ANALYSIS AND CHAIN OF CUSTODY RECORD

LBP Inspection and Asbestos Survey UTS Project Number E-NA02-750-002

# **APPENDIX D**

SITE DIAGRAM

LBP Inspection and Asbestos Survey UTS Project No.E-NA02-750-002

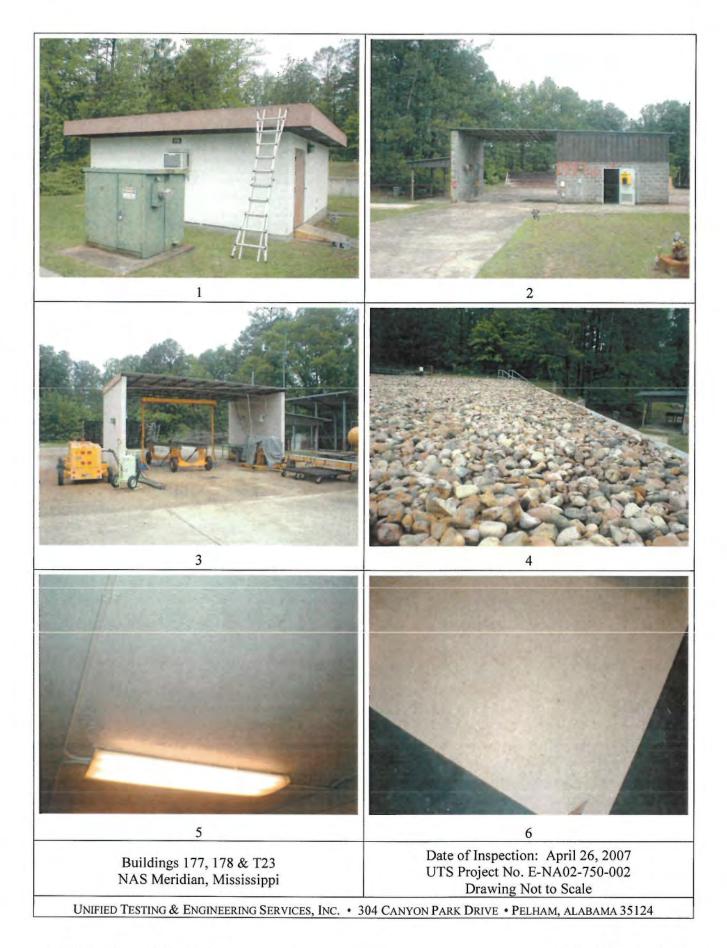


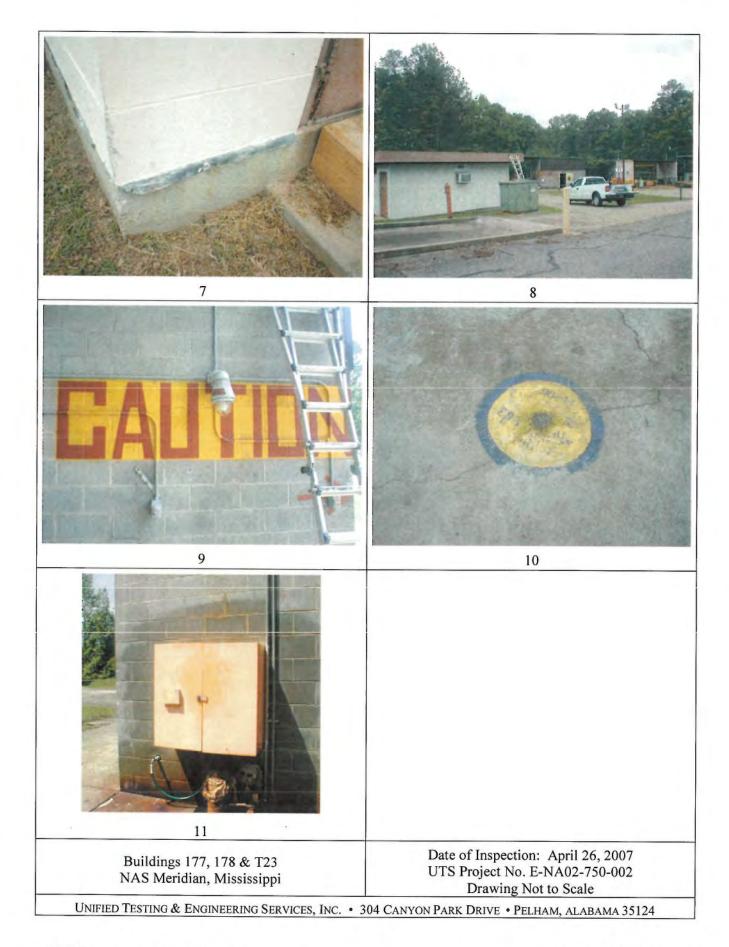
LBP Inspection and Asbestos Survey UTS Project No.E-NA02-750-002

# APPENDIX E PHOTOGRAPHS

LBP Inspection and Asbestos Survey UTS Project No.E-NA02-750-002

	PHOTOGRAPH LOG						
	Lead-Based Paint Inspection and Asbestos Survey						
	BUILDINGS 177, 178 & T23						
	NAS MERIDIAN, MISSISSIPPI						
РНОТО	РНОТОСКАРН						
NUMBER	REVIEW AND COMMENTS						
1	Building 178						
2	Building 177						
3	T23Cell						
4	Building 178, Rooting						
5	Building 178, Drywall						
6	Building 178, Floor Tile						
7	Building 178, Lead Flashing at Base of Building						
8	View of Area						
9	Building 177, Wall, Paint Signage						
10	Building 177, Floor, Paint Signage						
11	Building 177, Metal Box						
	······································						
	1						





### BUILDING 78 – ASR 8 SUPPORT FACILITY – SURVEY SUMMARY

#### **BUILDING DESCRIPTION**

Building 78 is a one-story, 1,440-square-foot building constructed in 1961. The building is located at the NAS Meridian main station and was formerly an air surveillance radar facility that is currently used for storage of equipment and furniture.

## ASBESTOS FINDINGS AND CONCLUSIONS

The survey team assigned two (2) homogeneous materials of suspected ACM at this building. Seven (7) samples were collected (excluding duplicate samples), four (4) of which were identified as ACM. Collected samples identified this homogeneous material as ACM:

• 9" Green mottled floor tile (HM-1): Green mottled floor tile contains 5% chrysotile. Mastic contains 5% chrysotile.

The attached figures show the samples and homogeneous materials that were identified through laboratory analysis as ACM and/or non-ACM for the identified sampling locations.

#### RECOMMENDATIONS

9" Green mottled floor tile/mastic (HM-1) is in good condition and currently does not pose a hazard. However, it is recommended that if the material becomes damaged and friable, it should be repaired or removed. Removal of this material is considered Class II OSHA work, and repair is considered Class III OSHA work. Both classes of OSHA work must be performed by AHERA (or equivalent) trained workers. It is recommended that this building be included in the installation Asbestos Management Program until the identified ACM has been removed.

In addition, older building materials that may potentially be ACM could be concealed beneath newer material and/or were inaccessible during the survey. If encountered, these materials should be sampled and analyzed for asbestos before being disturbed by renovation or demolition activities.

## **REMOVAL COST ESTIMATE**

TOTAL COST (ALL ACM)

	Low	High
1. Mobilization	\$1,200	\$1,400
2. Preparation of Asbestos Containment Area	\$2,300	\$2,800
3. Bulk Asbestos Removal	\$1,400	\$1,700
4. OSHA (and Clearance) Testing	\$2,900	\$3,600
5. Decontamination of Containment	\$3,900	\$4,800
6. Asbestos Waste Packaging, Handling, and Disposal	\$1,100	\$1,400
Tot	al \$12,800	\$15,700

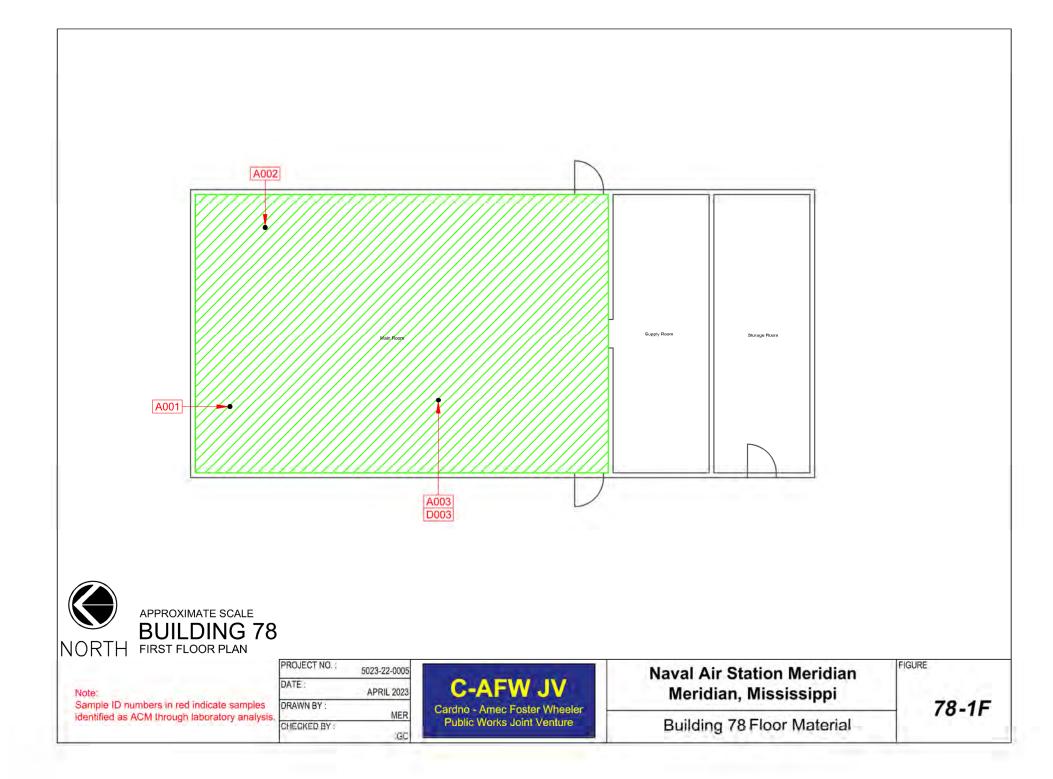
Asbestos Inventory Summary – NASM 78									
Building No.:	78	Inspector:	Rankin/Hirsch			Survey Date:	1/25/2	23	
Building Name:	ASR8 SUPP	ASR8 SUPPORT FACILITY			ing Description:		dar Support Fa age of equipme		
Homogeneous Material No.	Sample Description	Condition	Friability	Quantity	Sample ID	Location	Sample Layers	Asbestos Content	Figure
1	9" Green Mottled Floor Tile/Mastic	Good	NF	912 ft2	NASM-B0078-A-001	NW End of Room	2	5% Chrysotile (Floor Tile) 4% Chrysotile (Mastic)	78-1F
1	9" Green Mottled Floor Tile/Mastic	Good	NF	See HM-1 quantity above	NASM-B0078-A-002	NE End of Room	2	5% Chrysotile (Floor Tile) 4% Chrysotile (Mastic)	78-1F
1	9" Green Mottled Floor Tile/Mastic	Good	NF	See HM-1 quantity above	NASM-B0078-A-003	Middle of Room	2	5% Chrysotile (Floor Tile) 4% Chrysotile (Mastic)	78-1F
1	9" Green Mottled Floor Tile/Mastic	Good	NF	See HM-1 quantity above	NASM-B0078-D-003	Middle of Room	2	5% Chrysotile (Floor Tile) 5% Chrysotile (Mastic)	78-1F
2	Black Covebase Mastic	Good	NF	NA	NASM-B0078-A-005	SW End of Room Near Door	2	NAD (Covebase) NAD (Mastic)	78-1W

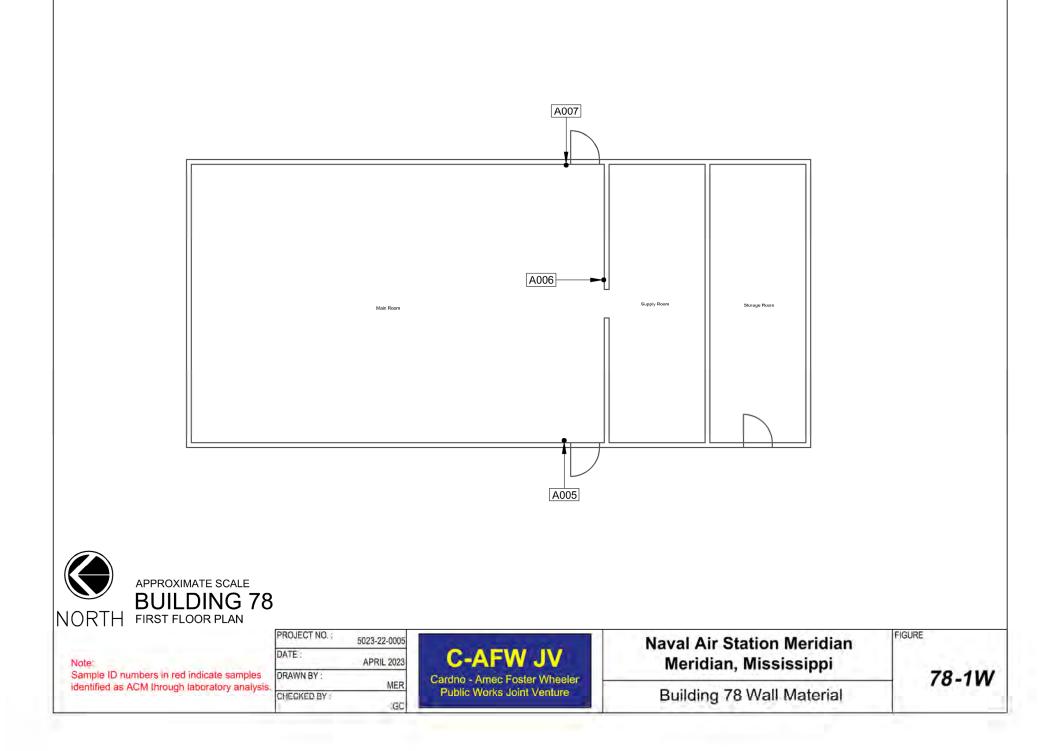
	Asbestos Inventory Summary – NASM 78								
Building No.:	78	Inspector:	Rankin/Hirsch				Survey Date:	1/25/2	23
Building Name:	ASR8 SUPP	ASR8 SUPPORT FACILITY						cility currently ent and furnitur	
Homogeneous Material No.	Sample Description	Condition	Friability	Quantity	Sample ID	Location	Sample Layers	Asbestos Content	Figure
2	Black Covebase Mastic	Good	NF	NA	NASM-B0078-A-006	Near Door into Supply Room	2	NAD (Covebase) NAD (Mastic)	78-1W
2	Black Covebase Mastic	Good	NF	NA	NASM-B0078-A-007	SE End of Room Near Door	2	NAD (Covebase) NAD (Mastic)	78-1W

Notes: Sample A-004 Not Used

These abbreviations are used throughout Appendix A. < = less than; ' = foot (feet); " = inch(es); E = east; F = friable; ft2 = square foot (feet); HVAC = heating, ventilation, and air conditioning; ID = identification; I = intact; LF = linear foot (feet); NA = not applicable; NAD = no asbestos detected; NASM = Naval Air Station Meridian; NE = northeast; NF = non-friable; NW = northwest; S = south; SE = southeast; SW = southwest; TSI = thermal system insulation;

W = west





# **BUILDING 78**



HM001 - 9" Green Mottled Floor Tile

HM002 - Black Covebase/Mastic

HM = Homogeneous Material

A = Asbestos

A001 Sample Location

A001 Sample Location with Positive Result

PROJECT NO. :	5023-22-0005	and the second state	Naval Air Station Meridian	FIGURE
DATE : DRAWN BY :	APRIL 2023	C-AFW JV	Meridian, Mississippi	111
DRAWN DT.	MER	Cardno - Amec Foster Wheeler Public Works Joint Venture	mar 2.00 (a)	
CHECKED BY :	GC	Public Works Joint Venture	LEGEND	

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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

		Asbestos			
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре
NASM-B0078-A-001-Flo or Tile	9" Green Mottled Floor Tile	Green Non-Fibrous Homogeneous		10% Quartz 85% Non-fibrous (Other)	5% Chrysotile
022301196-0001					
NASM-B0078-A-001-Ma stic	9" Green Mottled Floor Tile	Black Non-Fibrous Homogeneous		96% Non-fibrous (Other)	4% Chrysotile
022301196-0001A					
NASM-B0078-A-002-Flo or Tile	9" Green Mottled Floor Tile	Green Non-Fibrous Homogeneous		95% Non-fibrous (Other)	5% Chrysotile
022301196-0002		DL. J.			40/ - Ohmen till
NASM-B0078-A-002-Ma stic	9" Green Mottled Floor Tile	Black Non-Fibrous Homogeneous		96% Non-fibrous (Other)	4% Chrysotile
022301196-0002A					
NASM-B0078-A-003-Flo or Tile	9" Green Mottled Floor Tile	Green Non-Fibrous Homogeneous		95% Non-fibrous (Other)	5% Chrysotile
022301196-0003					
NASM-B0078-A-003-Ma stic 022301196-0003A	9" Green Mottled Floor Tile	Black Non-Fibrous Homogeneous		96% Non-fibrous (Other)	4% Chrysotile
NASM-B0078-D-003-Flo	9" Green Mottled	Green		95% Non-fibrous (Other)	5% Chrysotile
or Tile	Floor Tile	Non-Fibrous Homogeneous			
	9" Green Mottled	Black		05% Non fibrous (Other)	F0/ Chrysotile
NASM-B0078-D-003-Ma stic	Floor Tile	Black Non-Fibrous Homogeneous		95% Non-fibrous (Other)	5% Chrysotile
022301196-0004A					
NASM-B0078-A-005-Co ve Base	Black Covebase/ Mastic	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
022301196-0005					
NASM-B0078-A-005-Ma stic	Black Covebase/ Mastic	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
022301196-0005A					
NASM-B0078-A-006-Co ve Base	Black Covebase/ Mastic	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
022301196-0006					
NASM-B0078-A-006-Ma stic	Black Covebase/ Mastic	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
022301196-0006A		riomogeneous			



#### 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

			Non-A	sbestos	Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре
NASM-B0078-A-007-Co ve Base	Black Covebase/ Mastic	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
022301196-0007					
NASM-B0078-A-007-Ma stic	Black Covebase/ Mastic	Brown Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
022301196-0007A		-			

Analyst(s)

Bobby Wheatley (4) Philip Szabo (10)

Stephen Bennett, Laboratory Manager or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method") but augmented with procedures outlined in the 1993 ("final") version of the method. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Estimation of uncertainty is available on request.

Samples analyzed by EMSL Analytical, Inc. Kernersville, NC NVLAP Lab Code 102104-0, Virginia 3333-000228, West Virginia LT000321

Initial report from: 02/13/2023 12:21:24