# Nauset Environmental Services, Inc.

an Air Quality Company.

15 March 2014

**NES** Job # 2-207 Report No. **NES**/ASB-14/1607

Mark Marinaccio Barnstable – Structures and Grounds 800 Pitchers Road Hyannis, MA 02601

#### Re: Pre-remodeling asbestos inspection & sampling at Exterior of JFK Museum (Hyannis) **PO#: 14008894**

Dear Mr. Marinaccio:

In response to your authorization Nauset Environmental Services, Inc. (NES) sent a certified Massachusetts Asbestos Inspector, William M. Vaughan, PhD to perform a pre-remodeling asbestos inspection and sampling of the exterior of JFK Museum (Hyannis) looking for asbestos-containing building material (ACBM).

This inspection included photographic documentation found in Attachment A. Table 1 shows the summary of laboratory analysis of samples of suspect materials from 7 locations taken in the building. The full laboratory report is found in Attachment B.

#### **INSPECTION & OBSERVATIONS**

On 5 March 2014 Dr. Vaughan conducted an inspection of the exterior of the JFK Museum in preparation for its remodeling. Dr. Vaughan is an accredited Environmental Protection Agency (EPA) AHERA (Asbestos Hazard Emergency Response Act) asbestos inspector (#13-8025-106-230916) and is certified by the Commonwealth of Massachusetts as an asbestos inspector (#AI 040812).

SITE – The JFK Museum (397 Main Street, Hyannis) will undergo exterior remodeling that calls for the determination of ACBM various caulking/sealing applications, hence the need for this asbestos inspection.

- 1) **Thermal Systems**: None involved.
- 2) **Surfacing:** None involved.

P.O. Box 1385 East Orleans, MA 02643 3) **Miscellaneous:** The caulking and sealants around the building exterior will be impacted by these remodeling activities including caulking around windows, sealants around the front portico structure, fillers on portico columns and caulking used in the copper roof of the portico. Seven samples were collected to assess these suspect ACBMs.

Table 1 lists the sample locations and results of laboratory analyses by the appropriate EPA method as noted below.

The collected samples described above were sent with a Chain of Custody to IATL, Inc. (Mt. Laurel, NJ) for analysis for analysis for asbestos by Polarized Light Microscopy with Dispersion Staining in accordance with EPA/600/R-93/116 Test Method. IATL is part of the AIA Bulk Asbestos Proficiency Testing Program, AIHA's ELLAP accreditation program, NIST's NVLAP accreditation program and a Massachusetts licensed asbestos testing laboratory (#AA-000092). As noted above, the IATL results are found in Attachment B.

#### SAMPLING RESULTS

Table 1 summarizes the sampling locations and extracts the laboratory results from Attachment B.

Sample #	Location	Analytical results
207-1	1 <sup>st</sup> floor rear window – white caulk	4.6% Chrysotile asbestos
207-2	Portico – filler compound (Base of right pillar)	NO ASBESTOS DETECTED
207-3	Right of front door – Dark tan glazing	7.1% Chrysotile asbestos
207-4	Lower left of front door – white caulk	NO ASBESTOS DETECTED
207-5	Upper right of front door – white caulk	NO ASBESTOS DETECTED
207-6	Copper roof – grey caulk	NO ASBESTOS DETECTED
207-7	2 <sup>nd</sup> floor front window – white caulk	5.2% Crocidolite asbestos

 Table 1. Sampling locations and analytical results (see Attachment B)
 (Photographs of sampling locations are found in Attachment A)

#### **SUMMARY**

From sample results, <u>asbestos was found at three locations – the two window frame locations and</u> the caulk/glazing between the brick wall and the front door framing (see photo for sample 207-3). The latter would apply to both sides of the front door and **not** any of the caulk/sealants between wooden structures forming the pseudo Greek columns themselves.

#### **RECOMMENDATIONS**

A Massachusetts-licensed asbestos removal contractor should be engaged to remove, collect and properly dispose of:

- Any residual window caulking/glazing found around any/all windows
- <u>The caulking/glazing used to seal the gaps between the bricks and the front door framing on both sides of the door.</u>

The contractor should provide documentation to the down of the proper disposal of the collected material.

I trust the above information is satisfactory for your planning needs at this time.

Please contact us if there are any questions.

Attested by:

alter h Vary lo

William M. Vaughan, PhD, QEP Asbestos Inspector (Massachusetts AI 040812) QEP=Qualified Environmental Professional (since 1994)

C:\BV Files - Dell\Asbestos -200s\2-207 JFK Museum AS.docx

## ATTACHMENT A

Photographs taken during site inspection & sampling

## Select Inspection Photos



JFK Museum (397 Main Street) front portico



Rear of JFK Museum

## Sampling locations













## ATTACHMENT B

## IATL Laboratory Reports

[NOTE: Left two columns contain the asbestos information]

# IATL

9000 Commerce Parkway Suite B Mt. Laurel, NJ 08054 Telephone: 856-231-9449 Fax: 856-231-9818

### **CERTIFICATE OF ANALYSIS**

 Client:
 Nauset Environmental Services
 Report Date:
 3/13/2014

 PO Box 1385
 Report No.:
 327407

 East Orleans
 MA
 02643-1385
 Project:
 JFK Museum

 Project No.:
 2-207

#### BULK SAMPLE ANALYSIS SUMMARY

Lab No.: Client No.:	5252271 207-1	Description / Location: Grey Glazing Rear Window		
% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 4.6	Chrysotile	None Detected	None Detected	PC 95.4
Lab No.: Client No.:	5252272 207-2	Description / Location: White Non Fil Base Of Right	prous Column	
% Asbestos	Туре	% Non-Asbestos Fibrous Material	Туре	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100
Lab No.:	5252273	Description / Location: Dk Tan Glazir	ıg	
Client No.:	207-3	Right Of Front	Door	
% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
PC 7.1	Chrysotile	None Detected	None Detected	PC 92.9
Lab No.:	5252274	Description / Location: White Caulk		
Chent No.:	207-4	Lower Left Of	Door	
% Asbestos	Type	% Non-Asbestos Fibrous Material	Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100

Accreditations: NIST-NVLAP No. 101165-0 NY-DOH No. 11021 AIHA-LAP, LLC No. 100188 This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA or any agency of the U.S. government This report shall not be reproduced except in full, without written approval of the laboratory. Analytical Method: US EPA 600/R-93/116 by Polarized Light Microscopy, (ELAP 198.1 where applicable) Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not Comments: quantifiable under the Point Counting regimen. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron copy (TEM) is currently the only method that can pronounce materials as non-asbestos containing. The English V. Smith Analysis Performed By: Approved By: Frank E. Ehrenfeld, III Date: 3/13/2014 Laboratory Director Page 1 of 2



## **CERTIFICATE OF ANALYSIS**

Client:	Nauset Environn	Nauset Environmental Services Rep		Report Date:	3/13/2014	
	PO Box 1385			Report No.:	327407	
	East Orleans	MA	02643-1385	Project:	JFK Museum	
				Project No.:	2-207	

### BULK SAMPLE ANALYSIS SUMMARY

Lab No.: Client No.:	5252275 207-5	Description / Location:	White Caulk Front Door Upper Right	
% Asbestos	Type	% Non-Asbestos Fibrous	Material Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100
Lab No.:	5252276	Description / Location:	Grey Caulk	
Client No.:	207-6		Roof	
% Asbestos	Type	% Non-Asbestos Fibrous	Material Type	% Non-Fibrous Material
None Detected	None Detected	None Detected	None Detected	100
			2	
Lab No.:	5252277	Description / Location:	White/Brown Glazing	
Lab No.: Client No.:	5252277 207-7	Description / Location:	White/Brown Glazing Front Window	
Lab No.: Client No.: % Asbestos	5252277 207-7 Туре	Description / Location: % Non-Asbestos Fibrous	White/Brown Glazing Front Window <u>Material</u> <u>Type</u>	<u>% Non-Fibrous Material</u>
Lab No.: Client No.: <u>% Asbestos</u> PC 5.2	5252277 207-7 <u>Type</u> Crocidolite	Description / Location: <u>% Non-Asbestos Fibrous</u> None Detected	White/Brown Glazing Front Window <u>Material Type</u> None Detected	<u>% Non-Fibrous Material</u> PC 94.8
Lab No.: Client No.: % Asbestos PC 5.2	5252277 207-7 Type Crocidolite	Description / Location: <u>% Non-Asbestos Fibrous</u> None Detected	White/Brown Glazing Front Window <u>Material</u> <u>Type</u> None Detected	<u>% Non-Fibrous Material</u> PC 94.8

Accreditations:		NIST-NVLAP No. 101165-0 This confidential report relates only to those item. This report sha	NY-DOH No. 11021 (s) tested and does not represent an endorsement by NIST all not be reproduced except in full, without written appro	AIHA-LAP, LLC No. 100188 <i>T-NVLAP</i> , AIHA or any agency of the U.S. government wal of the laboratory.
Analytical Method: US EPA 600/R-93/116 by Polarized Light Microscopy, (ELAP 198.1 where applicable)				
Comments:	Quantification at <0 quantifiable under the present or the client of the optical micros microscopy (TEM)	.25% by volume is possible with this method. (PC) Ind he Point Counting regimen. Analysis includes all distin has specifically requested that it not be analyzed (ex. ar scope. Therefore, PLM is not consistently reliable in de is currently the only method that can pronounce materia	licates Stratified Point Count Method performed. (PC-Tra tet separable layers in accordance with EPA 600 Method. nalyze until positive instructions). Small asbestos fibers r steering asbestos in non-friable organically bound (NOB) as a non-asbestos containing.	ace) means that asbestos was detected but is not If not reported or otherwise noted, layer is either not nay be missed by PLM due to resolution limitations materials. Quantitative transmission electron
Analysis P	erformed By:	V. Smith		
Analysis P Date:	erformed By: 3/13/2014	V. Smith	Page 2 of 2	



9000 Commerce Parkway, Suite B • Mount Laurel, NJ 08054 Phone: 877-428-4285/856-231-9449 • Fax: 856-231-9818

## **Chain of Custody**

	-Bulk A	sbestos —		
Contact Informa Client Company: Office Address: City, State, Zip: Fax Number: Email Address:	Ation Nauset Environmental Services, In P.O. Box 1385 East Orleans, MA 02643-1385 508-255-0738 nesinfo@capecod.com	Project Number: Project Name: Primary Contact: Office Phone: Cell Phone:	2-207 JEK Museum Bill Vaughan 508-247-9167	
PLM Instruction         PLM: Bulk Asbe         PC: via ELAI         PC: 400 Point         PC: 1600 Point         PC: 1600 Point         PLM: Instruction         Analyze and D         Report Comp         Report All La         Only Analyze         Special Instruction	15: stos Building Materials EPA 600 R-93/11 stos Building Materials EPA 600 M-4/82- stos Building Materials NIOSH 9002, 198 stos Building Materials NYSDOH-ELAP stos Building Materials NYSDOH-	6, 1993 020, 1982 5 198.1, 2002 198.6, 2010 198.4, 2009 □ PLM: Analyze □ AUP: by H □ AUP: by M □ PLM: NOB vi □ PLM: NOB vi □ If <1% by □ If <1% by □ If <1% by □ Soil or Ver □ CARB 435	e Until Positive (Positive Stop) Homogenous Area as Noted Material Type as Noted a 198.6 ble via EPA 600 2.3 PLM, to TEM via 198.4 * PLM, Hold for Instructions ilding Material <sup>*,**</sup> (Dust, Wipe, Tape) miculite Analysis	
* Additional ch	arge and turnaround may be required ** Alterna	ntive Method (ex: EPA 600/R-04/	(004) may be recommended by Laboratory	
Turnaround Time       Image: Specific date / time       Image: Specific date / time         Preliminary Results Requested Date:       Specific date / time       Image: Specific date / time       Image: Specific date / time         Image:				
	Celebrating 25 years www.ja	one sample at a time ti.com		



9000 Commerce Parkway, Suite B • Mount Laurel, NJ 08054 Phone: 877-428-4285/856-231-9449 • Fax: 856-231-9818

## Sample Log

-Bulk Asbestos -

Client: Nowset Emiron mental Servi Project: 2-207 - JFK Museum

Sampling Date/Time: 140305 /14:13

Bulk Asbestos Sample Log						
Client Sample #	iATL #	Location/Description	Notes			
287-1	5252271	Gray Brin Caulh - Rear in	ndou			
207-22	5252272	white Filler compand based	Piglt column			
2,07-3	5252273	Groug cault - Right of Frin	Thora			
207-4	5252274	"white/Gray caulh - Lover le	eft of down			
267-5	5252275	Eshite caulk - Front dase	upper Right			
267-6	5252276	Gray Copper Prof Caulk.				
207-7	5252277	Tan Cauth - Frontwind	ju-			
~	anti-					
And and well well for which we do not a first of the state of the stat						
an tea sa						
ana magina barana waka dan kana a kata ana a kata kata kata kata						
			1 2			
	Addressing where a characteric features is the second state of the second state of the second state of the second	nan a the angle of the second statement of the second statement of the second statement of the second statement				

Celebrating 25 years...one sample at a time www.jatl.com

IATL

h

1