



KCI ASSOCIATES OF NC

ENGINEERS | PLANNERS | SCIENTISTS | CONSTRUCTION MANAGERS

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December 12, 2011 (rev 1)

(410) 316-0818

Mr. Brian A. Coffman, AIA, LEED AP BD+C
Project Manager/Architect
BES Inc.
2712 Bull Street
Beaufort, SC 29902

RE: **Asbestos Inspection of Roofing Materials**
MCAS F-18 Squadron Hangar #728, Beaufort, SC

Mr. Coffman:

This letter report represents the findings of the supplemental asbestos roofing materials inspection performed at the Marine Corps Air Station (MCAS) MCAS F-19 Squadron Hangar #728 in Beaufort, South Carolina (subject site).

KCI representative Kamau McAbee conducted a survey of the suspect asbestos containing roofing materials at the subject site on October 13, 2011 and November 17, 2011. Mr. McAbee is a South Carolina Licensed asbestos building inspector (#BI-01050). A copy of Mr. McAbee's South Carolina License is included as Attachment A. The scope of work included a visual evaluation of potential ACMs and the collection and analysis of bulk samples of these materials.

KCI collected three samples of each of the four types of sealants/roofing compounds applied to the surface of the roof. The samples were then placed in sealable plastic bags and assigned unique identifiers that were recorded on the bags and on the bulk survey sampling sheets. The suspect asbestos bulk samples collected by KCI's building inspector were submitted, along with a chain-of-custody form, to Scientific Analytical Institute, Inc. (SAI), of Greensboro, North Carolina. SAI is accredited by the American Industrial Hygiene Association, AIHA #173190, and National Institute of Standards and Technology through the National Voluntary Laboratory Accreditation Program (NVLAP) for Bulk Asbestos Analysis, NVLAP # 200664. The samples were analyzed for the presence of asbestos by Polarized Light Microscopy (PLM) method or Transmission Electron Microscopy (TEM). The chain-of-custody form and certificates of analysis are included as Attachment B.

Based on the results of the asbestos analysis, none of the materials were determined to contain greater than 1% asbestos by PLM and TEM. If you have questions or comments regarding this report, please contact me.

Sincerely,
KCI Technologies, Inc.

Kamau A. McAbee
Industrial Hygienist

Attachment A: SC Asbestos Inspector License
Attachment B: Chain of Custody and Analytical Results

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SCDHEC ISSUED
Asbestos ID Card

Kamau Mcabee

CONSULTBI

Expires
BI-01050 12/27/11





Bulk Asbestos Analysis

by Transmission Electron Microscopy

Semi-Quantitative
Chatfield SOP 1988-02 Rev. 1

Client: KCI Technologies
936 Ridgebrook Road
Sparks, MD 21152

Attn: Kamau McAbee

Lab Order ID: 1115852

Analysis ID: 1115852_TBS

Date Received: 11/7/2011

Date Reported: 11/14/2011

Project: 10110414F

Sample ID	Description	Organic (Wt. %)	Acid Sol. (Wt. %)	Asbestos (Wt. %)	LCL-UCL (Wt. %)
Lab Sample ID	Lab Notes				
MCAS728-59	Beige roof sealant	37%	-%	None Detected	
1115852TBS_1					
MCAS728-60	Black counter flashing repair	85%	-%	None Detected	
1115852TBS_2					
MCAS728-61	Peach roof sealant	35%	-%	None Detected	
1115852TBS_3					
MCAS728-62	Green roof sealant	36%	-%	None Detected	
1115852TBS_4					

Matt Thomas (4)

Analyst

Approved Signatory



Bulk Asbestos Analysis

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



Customer: KCI Technologies
936 Ridgebrook Road
Sparks, MD 21152

Attn: Kamau McAbee

Lab Order ID: 1116635

Analysis ID: 1116635PLM

Date Received: 11/22/2011

Date Reported: 11/30/2011

Project:

Sample ID	Description	Asbestos	Fibrous Components	Non-Fibrous Components	Attributes
Lab Sample ID	Lab Notes				Treatment
MCAS-728-63	Black -center flashing repair	None Detected	20% Cellulose	80% Other	Black Fibrous Heterogeneous
1116635PLM_1					Dissolved
MCAS-728-64	Black -center flashing repair	None Detected	20% Cellulose	80% Other	Black Fibrous Heterogeneous
1116635PLM_2					Dissolved
MCAS-728-65	Peach roof sealant	None Detected		100% Other	Tan Non Fibrous Heterogeneous
1116635PLM_3					Dissolved
MCAS-728-66	Peach roof sealant	None Detected		100% Other	Tan Non Fibrous Heterogeneous
1116635PLM_4					Dissolved
MCAS-728-67	Beige roof sealant	None Detected		100% Other	White Non Fibrous Homogeneous
1116635PLM_5					Ashed
MCAS-728-68	Beige roof sealant	None Detected		100% Other	White Non Fibrous Homogeneous
1116635PLM_6					Ashed
MCAS-728-69	Green roof sealant	None Detected		100% Other	Green Non Fibrous Heterogeneous
1116635PLM_7					Dissolved
MCAS-728-70	Green roof sealant	None Detected		100% Other	Green Non Fibrous Heterogeneous
1116635PLM_8					Dissolved

Disclaimer: Due to the nature of the EPA 600 method, asbestos may not be detected in samples containing low levels of asbestos. We strongly recommend that analysis of floor tiles, vermiculite, and/or heterogeneous soil samples be conducted by TEM for confirmation of "None Detected" by PLM. This report relates only to the samples tested and may not be reproduced, except in full, without the written approval of SAI. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. government. Estimated MDL is 0.1%.

Dorlos Ammerman (8)

Analyst

Nathaniel Durham, MS or Approved Signatory



Scientific Analytical Institute
 302-L Pomona Dr. Greensboro, NC 27407
 Phone: 336.292.3888 Fax: 336.292.3313
 www.sailab.com lab@sailab.com

Lab Use Only
 Lab Order ID: 11160035
 Client Code: _____

Company Contact Information	
Company: KCI Technologies	Contact: Karan McAbee
Address: 936 Hidgebrook Rd. Sparks MD 21152	Phone <input checked="" type="checkbox"/> : 410-493-8104
	Fax <input type="checkbox"/> :
	Email <input checked="" type="checkbox"/> : Karan.mcabee@kci.com

Asbestos Test Types	
PLM EPA 600/R-93/116	<input checked="" type="checkbox"/>
Positive stop	<input type="checkbox"/>
PLM Point Count	<input type="checkbox"/>
PCM NIOSH 7400	<input type="checkbox"/>
TEM AHERA	<input type="checkbox"/>
TEM Level II	<input type="checkbox"/>
TEM NIOSH 7402	<input type="checkbox"/>
TEM Bulk Qualitative	<input type="checkbox"/>
TEM Bulk Chatfield	<input checked="" type="checkbox"/>
TEM Bulk Quantitative	<input type="checkbox"/>
TEM Wipe ASTM D6480-99	<input type="checkbox"/>
TEM Microvac ASTM D5755-02	<input type="checkbox"/>
TEM Water EPA 100.2	<input type="checkbox"/>
Other: _____	<input type="checkbox"/>

Billing/Invoice Information	Turn Around Times	
Company: KCI Tech	90 Min. <input type="checkbox"/>	48 Hours <input type="checkbox"/>
Contact: Same	3 Hours <input type="checkbox"/>	72 Hours <input type="checkbox"/>
Address: Same	6 Hours <input type="checkbox"/>	96 Hours <input type="checkbox"/>
	12 Hours <input type="checkbox"/>	120 Hours <input type="checkbox"/>
	24 Hours <input type="checkbox"/>	144+ Hours <input checked="" type="checkbox"/>

PO Number: _____

Project Name/Number: _____

Sample ID #	Description/Location	Volume/Area	Comments
MCAS-728-63	Black counter flashing repair		PLM VE
MCAS-728-64	Perch roof sealant		
MCAS-728-65	Beige roof sealant		
MCAS-728-66	Green roof sealant		
MCAS-728-67			
MCAS-728-68			
MCAS-728-69			
MCAS-728-70			

Relinquished by	Date/Time	Received by	Date/Time
Karan McAbee	11/19/11	[Signature]	11-20-10308