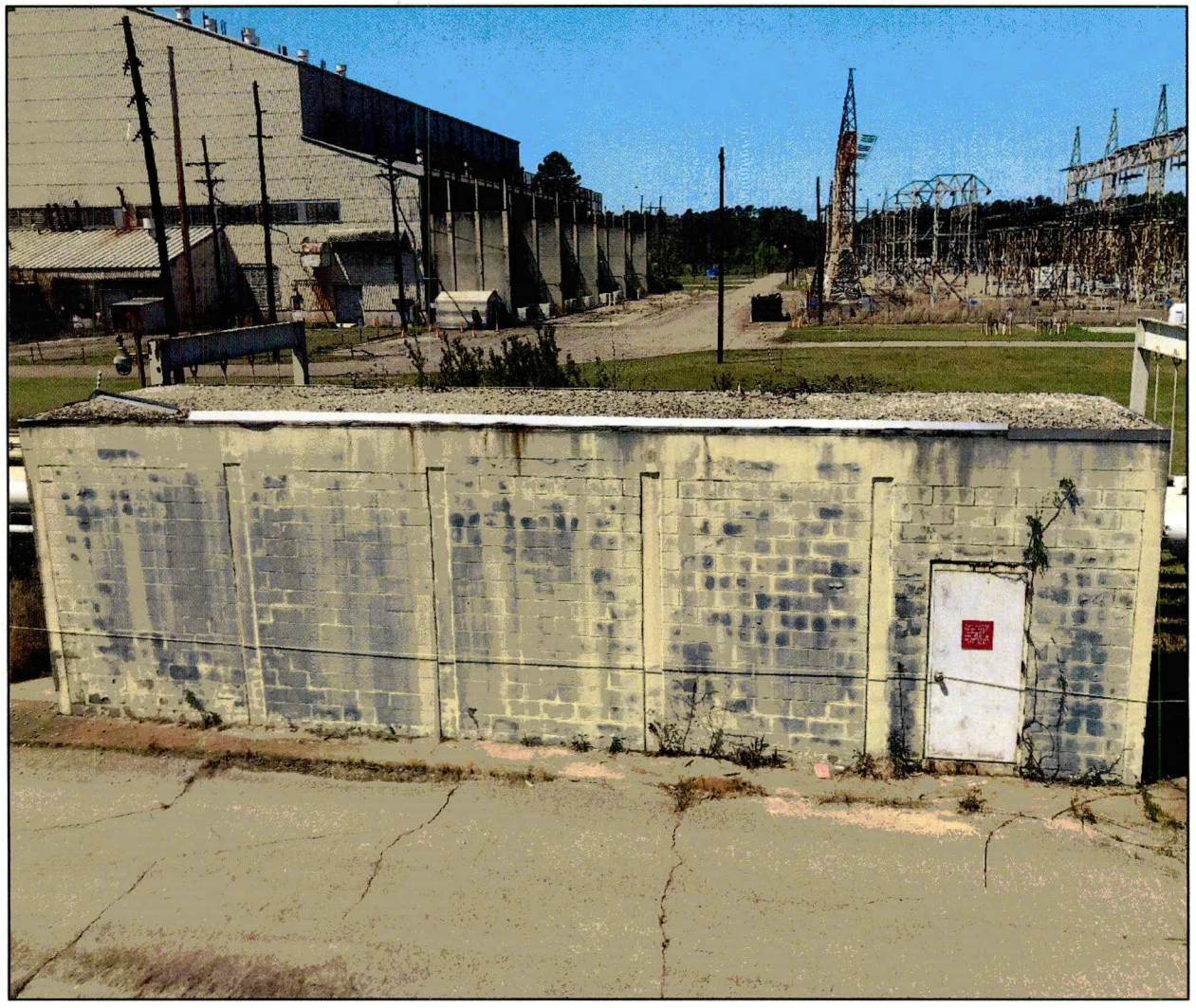
ENVIRONMENTAL COMPLIANCE & AREA COMPLETION PROJECTS

Baseline Asbestos Inspection Report of Building 484-9D



Q-APG-D-00027
May 4, 2021

Savannah River Nuclear Solutions, LLC
A Fluor Daniel Partnership

INTEROFFICE MEMORANDUM

Q-APG-D-00027
RSM Track Number 10755

May 4, 2021

TO: Kelsey Holcomb, 730-4B

FROM: Heath McGregor, 730-4B

BASELINE ASBESTOS INSPECTION REPORT OF BUILDING 484-9D

On April 5, 2021, an inspection was performed to evaluate electrical wire insulation and other electrical components inaccessible during a January 2020 inspection. On April 19, 2021, an additional inspection was performed to collect samples of the Thermal System Insulation (TSI) inside the Concrete Masonry Unit (CMU) exterior walls. This report is a revision to the original report issued on January 9, 2020.

Constructed circa 1990, building 484-9D was utilized as the valve house and fire suppression control system in D-Area. The approximately 400 square foot building is constructed of CMU's and finished with a poured concrete roof covered with a ballasted Ethylene Propylene Diene Monomer (EPDM) membrane. The building is divided into two (2) sections. The larger section (approximately 350 square feet) is the valve room that has a catwalk along the south wall and the water deluge piping, valves, pressure switches, instrument air lines, and steam lines along the north wall. The smaller section (approximately 50 square feet) houses the fire alarm panel and control center, pull stations, system annunciator panels, battery back-ups, switches, relays, and other fire control devices. The building was decommissioned in May 2013 with mechanical equipment abandoned in place.

Three (3) homogenous types of material were evaluated during this inspection. Some of the materials evaluated during the April 2021 inspections were sampled and/or evaluated during the previous asbestos inspections. Please see the attached Inspection Survey Table for descriptions, sample results, and location of the materials inspected. The analytical results from the previous report have been reproduced and are included in the Inspection Survey Table.

SUMMARY

All accessible, visible, suspect Asbestos Containing Material (ACM) was evaluated at the time of this inspection. Visible TSI included white high-temperature rigid insulation (steam lines) and Zonolite® (inside CMU walls). The TSI's were sampled to determine asbestos content.

The remaining electrical wiring and electrical components are not suspected to contain asbestos. Suspect gaskets (if any) must be considered Presumed Asbestos Containing Material (PACM). Gaskets in unbroken flanges are determined to be encased in a hardened substance and therefore not subject to regulatory requirements if undisturbed. This evaluation was based on facility knowledge, material knowledge, and document review.

All samples were analyzed by Polarized Light Microscopy (PLM). As required South Carolina Department of Health and Environmental Control (SC DHEC) Regulation 61-86.1, if the samples were organically bound, additional Transmission Electron Microscopy (TEM) was used to confirm negative results.

Samples collected during the 2020 and 2021 inspections were analyzed by Bureau Veritas North America, Inc. The laboratory is located at 3380 Chastain Meadows Parkway, Suite 300 Kennesaw, GA 30144. Please see the attached laboratory report for a review of accreditations and certifications.

Savannah River
Nuclear Solutions, LLC
A Fluor Daniel Partnership

INTEROFFICE MEMORANDUM

Samples collected in the 2009 inspection were analyzed at the SRNS LLC., Industrial Hygiene Laboratory, which is accredited by the American Industrial Hygiene Association (AIHA) Laboratory Quality Assurance Program (LQAP) in the Field of Testing (FoT)/PLM. The laboratory ID number is 100642. The analysts have attended Course 1608A: Microscopical Identification of Asbestos, presented by McCrone Research Institute or equivalent, and have completed the training qualifications to maintain proficiency. Samples requiring TEM analysis were shipped to an off-site laboratory for testing.

In accordance with 40CFR part 61.145 a **ten-day notification** must be filed with SC DHEC prior to demolition.

ASBESTOS INSPECTOR	INSTITUTION	CERT. NO	STATE	EXP. DATE
Heath McGregor	Greenville Tech College	203-EVT502-093	SC	**07/28/2021**

Included on the SRS Long-term in-house Group license ABS 8021

ASBESTOS INSPECTOR	INSTITUTION	CERT. NO.	STATE	EXP. DATE
Mikell Autrey	Greenville Tech College	203-ETV502-089	SC	**07/28/2021**

Included on the SRS Long-term in-house Group license ABS 8021

C: C.R.F., 773-52A
Site D&D Correspondence File
J.K. Barrineau, 730-4B
Lance Cramer, 730-4B
William Griffin, 730-4B
John Blankenship, 730-4B

INSPECTION SURVEY TABLE OF BULDING 484-9D

Homogeneous Number	Suspect/Non-Suspect Material	Description and Sample Numbers of Material	Test Results
Evaluated Homogenous Materials			
H01	Thermal System Insulation	**Description:** Dark colored insulation (Zonolite®) **Sample Numbers:** 4849D210419-01, 4849D210419-02, 4849D210419-03	Negative **See Note 1.**
Location: Observed inside CMU walls of the building.			
H02	Thermal System Insulation	**Description:** White high temperature rigid insulation (w/protective metal jacketing) **Sample Numbers:** 4849D090325-02, 4849D090325-03, 4849D09032504, 4849D090325-05, 4849D090325-06, 4849D090325-07	Negative
Location: Observed throughout the building interior applied to heater piping (under metal jacketing).			
H03OB	Miscellaneous	**Description:** Expansion joint **Sample Numbers:** 4849D090325-01A, 4849D090325-01B, 4849D090325-01C **Sample Number:** 4849D090325-01B analyzed via TEM	Negative
Location: Observed on exterior and interior (around base of walls).			

1. Negative = no asbestos fibers were detected during laboratory sample analysis.

OSR 4-434 (Rev 10-11-2006)

Industrial Hygiene Chain of Custody Lab Report

Washington Savannah River Company
Industrial Hygiene Laboratory
Building 735-B, Room 310
Aiken, SC 29808
Phone: (803) 952-7449/7459
Fax: (803) 952-7881

Page 1 of 2

Cost Code: PRD70391E

Lab Log-In No. _____

Contaminant(s): SUSPECT ASBESTOS BUILDING 484-9D

Lab Report No.
Required ◉ EBL ○ F/H Lab
EBL-IH
2009-0182-

Lab Method No. and Name: NIOSH 9002 (PLM)

Lab Book and Page No.: 09-034 - 0377

Disk No.:

Submitted By (Print/Signature): Charles Carter Charles Carter

Verbal Results Given (To Whom):

How (Check One) ○ Person ○ Voice Mail

Audited By (Print/Signature): R. Cochrane

Date/Time Verbal Results Given: /

Sample ID	Sample Media/Size	Requested TAT*	Results/Unit	Reporting Limit	Remarks
4849D090325-01A		5-8-09	< 1%	1% ASB	H02OB Expansion Joint
4849D090325-01B		5-8-09	< 1%		H02OB Expansion Joint
4849D090325-01C		5-8-09	< 1%		H02OB Expansion Joint
4849D090325-02		5-8-09	< 1%		H03 TSI
4849D090325-03		5-8-09	< 1%		H03 TSI
4849D090325-04		5-8-09	< 1%		H03 TSI
4849D090325-05		5-8-09	< 1%		H03 TSI
4849D090325-06		5-8-09	< 1%		H03 TSI

NOTE: Results relate only to the items tested.
NOTE: Results are not corrected for contamination based on the field blank or other analytical blank.

Analyst/Signature	Date Analyzed	Reviewed By (Print)	Signature (Lab Director or Designee)	Date
RM Cook	4-3-09	M Bernard 4-3-09	Maureen Bernard	4-3-09
Analyst/Signature	Date Report Mailed	Report Received By (Print)	Signature (Field Use Only)	Date Received
M Bernard	4-3-09			

Comments: Samples rec in good condition mg 4/3/09

Chain of Custody

NOTE: Samples from Radiological Contamination areas must be submitted to 772-F unless free release criteria are met.

Relinquished By				Received By			
Name	Signature	Date	Time	Name	Signature	Date	Time
Charles Carter	Charles Carter	3/25/2009	1430	M Bernard for RM Cooke	M Bernard for RM Cooke	3/25/09	1600

*TAT - Turn Around Time Disk No. - Only applicable to asbestos fiber counting.
Retention - Permanent

OSR 4-434 (Rev 10-11-2006)

Industrial Hygiene Chain of Custody Lab Report

Washington Savannah River Company
Industrial Hygiene Laboratory
Building 735-B, Room 310
Aiken, SC 29808
Phone: (803) 952-7449/7459
Fax: (803) 952-7881

Page 2 of 2

Cost Code: PRD70391E

Lab Log-In No.:

Contaminant(s): SUSPECT ASBESTOS BUILDING 484-9D

Lab Report No.: Required ◉ EBL ○ F/H Lab

EBL-IH

2009-0182-

Lab Method No. and Name: NIOSH 9002 (PCM)

Lab Book and Page No.: 09-0314 - 0322

Disk No.:

Submitted By (Print/Signature): Charles Carter

Verbal Results Given (To Whom):

How (Check One): ○ Person ○ Voice Mail

Audited By (Print/Signature): R. Cochrane

Date/Time Verbal Results Given: /

Sample ID	Sample Media/Size	Requested TAT*	Results/Unit	Reporting Limit	Remarks
4849D090325-07		5-8-09	< 1.0	1/0.453	H03 TSI

NOTE: Results relate only to the items tested.
NOTE: Results are not corrected for contamination based on the field blank or other analytical blank.

Analyst/Signature	Date Analyzed	Reviewed By (Print)	Signature (Lab Director or Designee)	Date
K M Cooke	4-2-09	M Bernard 4-3-09	Maureen Bernard	4-3-09
Analyst/Signature	Date Report Mailed	Report Received By (Print)	Signature (Field Use Only)	Date Received
M Bernard	4-3-09			

Comments

Chain of Custody

NOTE: Samples from Radiological Contamination areas must be submitted to 772-F unless free release criteria are met.

Relinquished By				Received By			
Name	Signature	Date	Time	Name	Signature	Date	Time
Charles Carter		3/25/2009	1430	M Bernard for RM Cooke	M Bernard for RM Cooke	3/25/09	1600

*TAT - Turn Around Time Disk No. - Only applicable to asbestos fiber counting.
Retention - Permanent

P1

DAVIS & FLOYD

LABORATORY ANALYSIS REPORT

April 24, 2009

James Koch II
Savannah River Nuclear Solutions, LLC
735-B Room 133
Aiken, SC 29804-6809

Re: Job 09396 Asbestos Analysis – TEM

On April 15, 2009, the Davis & Floyd, Inc. laboratory received one solid waste samples from the Savannah River Nuclear Solutions LLC. The sample listed on the Chain-of-Custody (COC) form arrived at Davis & Floyd Laboratory intact. A fourteen-day turnaround was requested on the COC.

The samples were subcontracted to the RJ Lee Group, Inc. in Monroeville, PA for analysis of Asbestos by TEM. The sample(s) were received by the RJ Lee Group and logged in for analysis on April 17, 2009 as follows:

SRNS ID	RJ Lee Sample Number
09396-4849D090325-01B	0165353.HT

Enclosed are the Chain-of –Custody Records and the RJ Lee Group laboratory analysis report. Please contact me if you have any questions.

Sincerely,
Davis & Floyd, Inc.

John H. McCord Jr.
Laboratory Manager

Enclosure:

CHAIN-OF-CUSTODY

L0904 1607

Labora

09396	Customer Name:	Carter, Charles	RL
Contract Number AC39041N	Customer Department:	D&D	Company: Davis & Floyd
	Customer Address:	707-49B	Ship to: Address: 816 East Durst Ave. Greenwood, SC 29649
	Customer Phone/Beeper:	507-4764 20730	Attention: Carl Burrell, 864-229-4413

Washington Savannah River Company
Aiken, SC 29808

Environmental Services Section
Waste Sample Management Group

COC creation date. 4/7/09

Matrix: S=Soil,SO=Solid,SL=Sludge,O=Organic,A=Aqueous, SM=Smear

Sample Analysis Requested

	Sample ID: 09396-4849D090325-01B	Sample ID:	Sample ID:
Collect Date	3/25/09		
Collect Time	0800		
No. Containers	1		
Matrix	SO ✓		
TEM for Asbestos (362)			

14 Day TAT

RAD SCREEN REQUIRED? NO STR Authorization James Koch

1 Relinquished by:	Date/Time	Received by:	2 Relinquished by:	Date/Time	Received by:
(Print) R.M. Cooke	Date 4-13-09	(Print) Grace Miller	(Print) Grace Miller	Date 4/13/09	(Print) Minnie Hightower
(Sign) R.M. Cooke	Time 1010	(Sign) Grace Miller	(Sign) Grace Miller	Time 1200	(Sign) Minnie Hightower
3 Relinquished by:	**Date/Time**	**Received by:**	**4 Relinquished by:**	**Date/Time**	**Received by:**
(Print) Minnie Hightower	4/14/09	(Print) C/S	(Print)	4.15.09	(Print) Tisa S. McCall
(Sign) Minnie Hightower	Time 1100	(Sign) Shipping	(Sign)	Time 11:15	(Sign) Tisa S. McCall

Cooler # 0527

8 of 16

P3

RJ Lee *Group*, Inc.
350 Hochberg Road, Monroeville, PA 15146
Tel: (724) 325-1776 | Fax: (724) 733-1799

Final Laboratory Report

TEM Compositional Analysis

Mr. John H. McCord, Jr.
Davis & Floyd, Inc.
P.O. Drawer 428
Greenwood, SC 29649
USA

Report Date: 4/21/2009
Sample Receipt Date: 4/17/2009
RJ Lee Group Job No.: ATH904027
Authorization/P.O. No.:
Samples Received: 1
Client Job No./Name: 62664_01

Method: Chatfield Technical Consulting Limited, SOP-1988-02.Rev1.

Client Sample Number	RJLG Sample Number	Sample Description	Starting Weight (gm)	Weight Percent						Amphibole Type
				Organic	Acid Soluble	Residue	Chry	Amph	Total Asbestos	
09396-4849D09 0325-01B	0165353.HT	Exp Joint	0.23260	83	7	10	0	0	0	

Authorized Signature: /mb
Kimberly A. Allison, Manager - TEM Analysis

Notes:
1. "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
2. Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA #100364, NVLAP #101208-0, NY ELAP #10844) facility.
3. If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
4. Trace indicates <1% asbestos was identified.
5. Abbreviations: N/A-Not Applicable, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, NSD-No Structures Detected.
6. Samples will be held for 90 days and then disposed of per Federal regulations.
7. These results are submitted pursuant to RJ Lee Group's current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. No responsibility or liability is assumed for the manner in which these results are used or interpreted.

P4

DISCLAIMER

Caution must be applied when interpreting the results of samples prepared using indirect sample preparation techniques. Studies have shown that indirect preparation techniques may result in substantial increases in the fiber count when compared to fiber counts which would have been obtained using direct sample preparation.

RJ Lee Group, Inc. is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) for select test methods for airborne asbestos analysis (TEM), asbestos fiber analysis (PLM), New York Department of HEALTH Environmental Laboratory Program (ELAP), and by the American Industrial Hygiene Association (AIHA). This test report relates only to the items tested. This report may not be used to claim product endorsement by NVLAP, any agency of the US Government, or any other laboratory accrediting agency. Any reproduction of this document must be in full in order for the report to be valid. This report is not valid unless it bears the name of a NVLAP-approved signatory.

These results are submitted pursuant to RJ Lee Group's current terms and conditions of sale, including the company's standard warranty and limiting provisions and no responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, RJ Lee Group will store the samples for a period of ninety (90) days before discarding. A shipping and handling fee will be assessed for the return of any sample.

P5

DAVIS FLOYD

ATH904027

Chain of Custody Record

Page 1 of 1

Client: Davis & Floyd, Inc. Greenwood, SC 29649	Project / Site Location: 62664_01
Contact: John H. McCord, Jr.	Report To: John H. McCord, Jr.
Copy To: jmccord@davisfloyd.com	
Collected By: Tisa S. McCall/Sample Custodian	

Laboratory Certification Numbers: SC - 24110, NC - 25, NELAP - E87633, TN - 2923, VA - 77
816 E. Durst Avenue, Greenwood, SC 29649 (864) 229-4413 Fax: (864) 229-7119
Email: Laboratory@davisfloyd.com Internet : www.davisfloyd.com

Reporting Requirements: [ ] Standard [ ] Data Package (Specify Level 1 2 3 4)
Turnaround Requirements: [ ] Standard [ ] Rush (Specify ______)

Office Use Only — Laboratory Work Request; PO / Quote Number; TC; Special Instructions; State; LOGIN

Atmospheric Conditions (Optional)

NOTICE:

Sample Description	Sample Collection Date	Sample Collection Time	Time sampling initiated (composite only) Time	Composite	Grab	Matrix Type	Number of Containers Total	Parameters P	Asbestos / TEM A	HOT	Comments	Fraction
09396-4849D090325-01B	25-Mar	8:00				7	1		1			

Relinquished By	Date	Time	Relinquished By	Date	Time	Relinquished By	Date	Time	Shipped Via
Tisa S. McCall	4.16.09	1435							UPS (FEDEX) CLIENT COURIER OTHER D&F
Received By	Date	Time	Received By	Date	Time	Received in Laboratory By	Date	Time	Tracking Number
						M. Broadway	04-17-09	10:05 AM	

Comments:

Flow Measurement (Note 1): Beginning ______ Ending ______ Start Date: ______ Multiplier ______

Note: Indicate immediate delivery for those shipments in which the temperature does not have adequate time to reach 4°C

Receipt Information: Cooler ID (if available): ______ On Ice: Yes / No Temp(C) ______ Immediate Delivery: Yes / N Custody Seal: Intact / B

Matrix Type Definitions 1 - Drinking Water 2 - Clean Water 5 - Groundwater 7 - Soil/Sediment 8 - Liquid Sludge 9 - Oil 12 - Air
(P) Preservative Definitions A - None B - H2SO4 C - HCl D - HNO3 E - NaOH F - Filtered G - Other

(Note 1) For Discharge Measurements

May 03, 2021

Kenny Barrineau
SAVANNAH RIVER NUCLEAR SOLUTIONS, LLC
Building 730-4B, 2135
Aiken, SC 29808

Bureau Veritas Work Order No. A2104169

Reference Activity Code: 0CHZDACEDS

Dear Kenny Barrineau:

Bureau Veritas North America, Inc. received 3 samples on April 26, 2021 for the analyses presented in the following report.

The results apply only to the samples analyzed in this project. Please note that any unused portion of the samples will be discarded after a sixty-day holding period, unless you have requested otherwise.

This material is confidential and is intended solely for the person to whom it is addressed. If this is received in error, please contact the number provided below.

We appreciate the opportunity to assist you. If you have any questions concerning the report, please contact the analyst whose name appears on the report or myself at (770) 499-7701.

Sincerely,

Heather Alley
Microscopist
Electronic signature authorized through password protection

cc: Carlos Santos
Siobhan Kitchen

Bureau Veritas North America, Inc.

Industrial Hygiene Laboratory
3380 Chastain Meadows Parkway, Suite 300
Kennesaw, GA 30144

Main: (770) 499-7701
Fax: (770) 499-7511
www.bvlabs.com

CASE NARRATIVE

Date: *03-May-21*

CLIENT: SAVANNAH RIVER NUCLEAR SOLUTIONS, LLC

Project: Activity Code: 0CHZDACEDS

Work Order No A2104169

ANALYTICAL METHOD FOR ASBESTOS IN BULK SAMPLES USING POLARIZED LIGHT MICROSCOPY (PLM)

The results of this report relate only to the samples listed in the body of this report.

Unless otherwise noted below, the following statements apply: 1) all samples were received in acceptable condition, 2) all quality control results associated with this sample set were within acceptable limits and/or do not adversely affect the reported results, and 3) the industrial hygiene results have not been blank corrected unless otherwise noted.

Use of EPA/600/R-93/116 satisfies applicable requirements of the USEPA's "Interim Method for the Determination of Asbestos in Bulk Insulation Sample", EPA-600/M4-82-020, December 1982, published as Appendix E to Subpart E of 40CFR763. Bulk samples analyzed by New York State methods follow stratified point counting methods (198.1) or Method 198.6 for PLM non-friable organically bound materials (NYSDOH Lab Code –11645). Percentages are visual estimations of asbestos >3:1 aspect ratio. The reliable limit of quantitation of the method is 1%, although asbestos may be qualitatively detected at concentrations less than 1%. Samples for which asbestos is detected at <1% are reported as trace, "<1%". "None Detected" indicates that no asbestos fibers were observed. NESHAP requires point counting of a bulk sample when the result is <10% by a method other than point counting. EPA, however states that if 3 mounts of the sample are analyzed and the asbestos percentage is <10% by visual estimation, the client may elect to assume the amount to be greater than 1% or require verification by point counting. If the result by point counting is different than the result obtained by visual estimation, the point count result will be used. Sample friability or non-friability noted on the report is a requirement for the State of California and refers only to the condition of the sample under macroscopic examination. It does not imply friability or non-friability for the sample as collected or observed in the field as determined by the person collecting the sample. The Kennesaw, Georgia lab is accredited by NVLAP –Lab Code 101125-0.

(a)Polarized- light microscopy is not consistently reliable in detecting asbestos in floor coverings, similar non-friable organically bound materials, soil and vermiculite. Quantitative electron microscopy is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos containing. When analysis of such materials by PLM yields results negative for the presence of asbestos, Bureau Veritas recommends utilizing quantitative transmission electron microscopy (TEM). For more information, contact the laboratory.

References

BUREAU VERITAS

CLIENT: SAVANNAH RIVER NUCLEAR SOLUTIONS, LLC
Project: Activity Code: 0CHZDACEDS
Work Order No A2104169

McCrone, Walter C. 1980. The Asbestos Particle Atlas. Ann Arbor, MI: Ann Arbor Science Publishers, Inc.

United States Environmental Protection Agency. Environmental Monitoring Systems Laboratory. 1982. Interim Method for the Determination of Asbestos in Bulk Insulation Samples. EPA-600/M4-82-020. Washington: GPO, December.

United States Environmental Protection Agency. Method for the Determination of Asbestos in Bulk Building Materials. EPA-600/R-93/116, July 1993 (PLM)

Fed. Reg. Vol. 55, No.224, 11/20/90, p.48415 (NESHAP)
EPA Memorandum 5/8/1991 –NESHAP Clarifications

NYSDOH Methods 198.1/198.6.

Note: The attached chain-of-custody form shows the sample data that was provided by the client.

ANALYTICAL RESULTS

Date: *03-May-21*

CLIENT: SAVANNAH RIVER NUCLEAR SOLUTIONS, LLC
Sample Type: Bulk
Work Order No.: A2104169
Date Received: 4/26/2021
Client Reference: Activity Code: 0CHZDACEDS
Report Date: 03-May-21
Method Reference: EPA-600/M4-82-020/EPA/600/R-93/116/NYELAP 198.1

Lab ID	Client Sample ID	Analyst	Date Sampled	Date Analyzed
001A	***4849D210419-01***	HA	04/19/2021	05/03/2021

Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	100	Homogeneous Insulation	Brown Vermiculite	None Detected		Non-Detected	Binder/Filler

Lab ID	Client Sample ID	Analyst	Date Sampled	Date Analyzed
002A	***4849D210419-02***	HA	04/19/2021	05/03/2021

Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	100	Homogeneous Insulation	Brown Vermiculite	None Detected		Non-Detected	Binder/Filler

Lab ID	Client Sample ID	Analyst	Date Sampled	Date Analyzed
003A	***4849D210419-03***	HA	04/19/2021	05/03/2021

Layer	POB	Sample Morphology	Asbestos	%	Other Fibers	%	Particulate
(1)	100	Homogeneous Insulation	Brown Vermiculite	None Detected		Non-Detected	Binder/Filler

Laboratory Limits

Heather Alley (HA)

Range	R Limit	Quartile Limit
0.1-1	100	+/- 1.482
10-100	100	+/- 26.676
1-10	100	+/- 5.928
Trace	100	+/- 1.482

Laboratory

Range	R Limit	Quartile Limit
0.1-1	100	+/- 1.482
10-100	100	+/- 22.23
1-10	100	+/- 7.41
Trace	100	+/- 1.482

The reliable limit of quantitation of the method is 1%, although asbestos may be qualitatively detected at concentrations less than 1%. Samples for which asbestos is detected at <1% are reported as trace, "<1%". "None Detected" indicates that no asbestos fibers were observed.

Analyst(s) Name/Date: H. Alley 5/3/2021

SRS Chain of Custody / Laboratory Analysis Request

A2 104169

Return Results / Electronic Report To

Name (CTF)	Kenny Barrineau
Email / Phone	kenny.barrineau@srs.gov/ (803) 952-5650
Name (STR)	Kenny Barrineau
Email / Phone	kenny barrineau@srs.gov (803) 952-5650
Name (Req by)	Carlos Santos
Email / Phone	carlos.santos@srs.gov
Organization	SRNS / EC&ACP
Address	Savannah River Site Aiken, SC 29802

Requested TAT: ☐ Rush ☒ Routine ☐ Other 5 Day from rec.

Activity Code 0CHZDACEDS

Samples received in good condition? ☐ Y ☐ N

Laboratory

Lab Name	Bureau Veritas (Atlanta)
Address 1	3380 Chastain Medows Pkwy, Suite 300
Address	Kennesaw, GA 30144
POC	Alan Segrave / 800-252-9919

Sample Comments

Use positive stop for all homogenous groups. TEM is required only as indicated for organically bound samples or analyst may choose another sample from that ABC group that was positive via PLM. P.O. # will sent to Kelly Smith via Email for services related to this task.

Peer Reviewed / Self Check by

Name (Print) M. Autrey

This Line Laboratory use ONLY	Laboratory ID#:	Results attached (date):	Results Pages (Total)

No	Field ID	Matrix	Sample Date / Time	Requested Analysis	Sample Media / Size	Time (min)	Vol / Area	Sample Comments
	4849D210419-01	Bulk	04/19/21	PLM	>1 Gram	N/A	N/A	H01 - Wall insulation
	4849D210419-02	Bulk	04/19/21	PLM	> 1 Gram	N/A	N/A	H01 - Wall insulation
	4849D210419-03	Bulk	04/19/21	PLM	> 1 Gram	N/A	N/A	H01 - Wall insulation

Relinquished by

Name	Signature	Date and Time
Carlos Santos		4/21/21 08:41
Kane Bice		4/21/21 0843
735-B Rm 401	735-B Rm 401	4-22-21 0635
Kane Bice		4-22-21 0800

Received by

Name	Signature:	Date and Time
Kane Bice		4/21/21 0842
735-B Rm 401	735-B Rm 401	4/21/21 0843
Kane Bice		4-22-21 0635
C/S Shipping	C/S Shipping	4-22-21 0800

K. Smith 4/26/2021

Page 1 of 1

5 of 5