

Appendix Q

Soil Analytical Results



September 13, 2019

Ms. Cynthia Logsdon
Westinghouse Electric Company, LLC
PO Drawer R
Columbia, South Carolina 29205

Re: ENV-CONSENTA
Work Order: 487768

Dear Ms. Logsdon:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on August 15, 2019. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

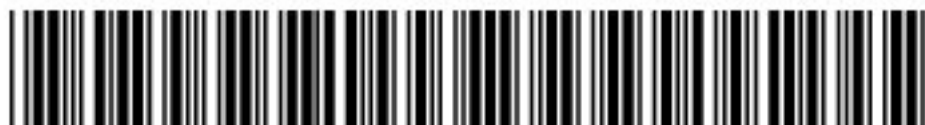
Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without approval by the laboratory. Copies of GEL's accreditations and certifications can be found on our website at www.gel.com.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4778.

Sincerely,

Hope Taylor
Project Manager

Purchase Order: 4500778461
Enclosures



GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis Report for

WNUC009 Westinghouse Electric Co, LLC

Client SDG: 487768 GEL Work Order: 487768

The Qualifiers in this report are defined as follows:

- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a Tracer compound
- ** Analyte is a surrogate compound
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Hope Taylor.

Reviewed by _____

Hope Taylor

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: September 13, 2019

Company : Westinghouse Electric Company, LLC
Address : PO Drawer R

Columbia, South Carolina 29205

Contact: Ms. Cynthia Logsdon
Project: ENV-CONSENTA

Client Sample ID: SS-13 (0-1) Project: WNUC01519
Sample ID: 487768001 Client ID: WNUC009
Matrix: Solid
Collect Date: 12-AUG-19 11:35
Receive Date: 15-AUG-19
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
Rad Liquid Scintillation Analysis												
Liquid Scint Tc99, Soil "As Received"												
Technetium-99	U	5.42	+/-15.5	26.7	50.0	pCi/g		JJ3	09/11/19	2156	1908282	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	DOE EML HASL-300, Tc-02-RC Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			99.6	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration
Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 13, 2019

Company : Westinghouse Electric Company, LLC
Address : PO Drawer R

Columbia, South Carolina 29205

Contact: Ms. Cynthia Logsdon
Project: ENV-CONSENTA

Client Sample ID:	SS-13 (1-3)	Project:	WNUC01519
Sample ID:	487768002	Client ID:	WNUC009
Matrix:	Solid		
Collect Date:	12-AUG-19 12:10		
Receive Date:	15-AUG-19		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
Rad Liquid Scintillation Analysis												
Liquid Scint Tc99, Soil "As Received"												
Technetium-99	U	11.0	+/-21.0	36.0	50.0	pCi/g		JJ3	09/11/19	2213	1908282	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	DOE EML HASL-300, Tc-02-RC Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			95.2	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Company : Westinghouse Electric Company, LLC
Address : PO Drawer R

Columbia, South Carolina 29205

Contact: Ms. Cynthia Logsdon
Project: ENV-CONSENTA

Client Sample ID:	SS-13 (3-5)	Project:	WNUC01519
Sample ID:	487768003	Client ID:	WNUC009
Matrix:	Solid		
Collect Date:	12-AUG-19 12:30		
Receive Date:	15-AUG-19		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
Rad Liquid Scintillation Analysis												
Liquid Scint Tc99, Soil "As Received"												
Technetium-99	U	2.05	+/-18.3	31.9	50.0	pCi/g		JJ3	09/11/19	2231	1908282	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	DOE EML HASL-300, Tc-02-RC Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			101	(15%-125%)

Notes:
Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Report Date: September 13, 2019

Company : Westinghouse Electric Company, LLC
Address : PO Drawer R

Columbia, South Carolina 29205

Contact: Ms. Cynthia Logsdon
Project: ENV-CONSENTA

Client Sample ID:	SS-13 (5-7)	Project:	WNUC01519
Sample ID:	487768004	Client ID:	WNUC009
Matrix:	Solid		
Collect Date:	12-AUG-19 12:50		
Receive Date:	15-AUG-19		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
Rad Liquid Scintillation Analysis												
Liquid Scint Tc99, Soil "As Received"												
Technetium-99	U	3.31	+/-15.2	26.4	50.0	pCi/g		JJ3	09/11/19	2248	1908282	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	DOE EML HASL-300, Tc-02-RC Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			95.4	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 13, 2019

Company : Westinghouse Electric Company, LLC
Address : PO Drawer R

Columbia, South Carolina 29205

Contact: Ms. Cynthia Logsdon
Project: ENV-CONSENTA

Client Sample ID:	SS-13-DUP (5-7)	Project:	WNUC01519
Sample ID:	487768005	Client ID:	WNUC009
Matrix:	Solid		
Collect Date:	12-AUG-19 12:50		
Receive Date:	15-AUG-19		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	21.6	+/-18.5	30.7	50.0	pCi/g		JJ3	09/11/19	2305	1908282		1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	DOE EML HASL-300, Tc-02-RC Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			102	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Company : Westinghouse Electric Company, LLC
Address : PO Drawer R

Columbia, South Carolina 29205

Contact: Ms. Cynthia Logsdon
Project: ENV-CONSENTA

Client Sample ID:	SS-11 (0-1)	Project:	WNUC01519
Sample ID:	487768006	Client ID:	WNUC009
Matrix:	Solid		
Collect Date:	12-AUG-19 14:10		
Receive Date:	15-AUG-19		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	9.64	+/-18.3	31.4	50.0	pCi/g		JJ3	09/11/19	2322	1908282		1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	DOE EML HASL-300, Tc-02-RC Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			98	(15%-125%)

Notes:
Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

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Company : Westinghouse Electric Company, LLC
Address : PO Drawer R

Columbia, South Carolina 29205

Contact: Ms. Cynthia Logsdon
Project: ENV-CONSENTA

Client Sample ID:	SS-11 (1-3)	Project:	WNUC01519
Sample ID:	487768007	Client ID:	WNUC009
Matrix:	Solid		
Collect Date:	12-AUG-19 14:25		
Receive Date:	15-AUG-19		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-1.34	+/-20.3	35.8	50.0	pCi/g		JJ3	09/11/19	2339	1908282		1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	DOE EML HASL-300, Tc-02-RC Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			100	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Columbia, South Carolina 29205

Contact: Ms. Cynthia Logsdon
Project: ENV-CONSENTA

Client Sample ID:	SS-11 (3-5)	Project:	WNUC01519
Sample ID:	487768008	Client ID:	WNUC009
Matrix:	Solid		
Collect Date:	12-AUG-19 15:20		
Receive Date:	15-AUG-19		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
Rad Liquid Scintillation Analysis												
Liquid Scint Tc99, Soil "As Received"												
Technetium-99	U	14.3	+/-18.8	31.7	50.0	pCi/g		JJ3	09/11/19	2356	1908282	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	DOE EML HASL-300, Tc-02-RC Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			96.7	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Columbia, South Carolina 29205

Contact: Ms. Cynthia Logsdon
Project: ENV-CONSENTA

Client Sample ID: SS-11 (5-7)	Project: WNUC01519
Sample ID: 487768009	Client ID: WNUC009
Matrix: Solid	
Collect Date: 12-AUG-19 15:40	
Receive Date: 15-AUG-19	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
Rad Liquid Scintillation Analysis												
Liquid Scint Tc99, Soil "As Received"												
Technetium-99	U	17.3	+/-16.1	26.8	50.0	pCi/g		JJ3	09/12/19	0013	1908282	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	DOE EML HASL-300, Tc-02-RC Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			98.3	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 13, 2019

Company : Westinghouse Electric Company, LLC
Address : PO Drawer R

Columbia, South Carolina 29205

Contact: Ms. Cynthia Logsdon
Project: ENV-CONSENTA

Client Sample ID:	SS-12 (0-1)	Project:	WNUC01519
Sample ID:	487768010	Client ID:	WNUC009
Matrix:	Solid		
Collect Date:	12-AUG-19 16:00		
Receive Date:	15-AUG-19		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
Rad Liquid Scintillation Analysis												
Liquid Scint Tc99, Soil "As Received"												
Technetium-99	U	8.88	+/-19.1	32.8	50.0	pCi/g		JJ3	09/12/19	0030	1908282	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	DOE EML HASL-300, Tc-02-RC Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			99.6	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 13, 2019

Company : Westinghouse Electric Company, LLC
Address : PO Drawer R

Columbia, South Carolina 29205

Contact: Ms. Cynthia Logsdon
Project: ENV-CONSENTA

Client Sample ID:	SS-12 (1-3)	Project:	WNUC01519
Sample ID:	487768011	Client ID:	WNUC009
Matrix:	Solid		
Collect Date:	12-AUG-19 16:20		
Receive Date:	15-AUG-19		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
Rad Liquid Scintillation Analysis												
Liquid Scint Tc99, Soil "As Received"												
Technetium-99	U	8.02	+/-17.8	30.5	50.0	pCi/g		JJ3	09/12/19	0047	1908282	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	DOE EML HASL-300, Tc-02-RC Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			99.5	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 13, 2019

Company : Westinghouse Electric Company, LLC
Address : PO Drawer R

Columbia, South Carolina 29205

Contact: Ms. Cynthia Logsdon
Project: ENV-CONSENTA

Client Sample ID: SS-12 (3-5)

Project: WNUC01519

Sample ID: 487768012

Client ID: WNUC009

Matrix: Solid

Collect Date: 12-AUG-19 16:40

Receive Date: 15-AUG-19

Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	10.0	+/-14.5	24.5	50.0	pCi/g		JJ3	09/12/19	0104	1908282		1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	DOE EML HASL-300, Tc-02-RC Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			99.1	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor

Lc/LC: Critical Level

DL: Detection Limit

PF: Prep Factor

MDA: Minimum Detectable Activity

RL: Reporting Limit

MDC: Minimum Detectable Concentration

SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 13, 2019

Company : Westinghouse Electric Company, LLC
Address : PO Drawer R

Columbia, South Carolina 29205

Contact: Ms. Cynthia Logsdon
Project: ENV-CONSENTA

Client Sample ID:	SS-12 (5-7)	Project:	WNUC01519
Sample ID:	487768013	Client ID:	WNUC009
Matrix:	Solid		
Collect Date:	12-AUG-19 17:00		
Receive Date:	15-AUG-19		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
Rad Liquid Scintillation Analysis												
Liquid Scint Tc99, Soil "As Received"												
Technetium-99	U	6.76	+/-15.8	27.2	50.0	pCi/g		JJ3	09/12/19	0121	1908282	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	DOE EML HASL-300, Tc-02-RC Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			95.1	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Report Date: September 13, 2019

Company : Westinghouse Electric Company, LLC
Address : PO Drawer R

Columbia, South Carolina 29205

Contact: Ms. Cynthia Logsdon
Project: ENV-CONSENTA

Client Sample ID: SS-14 (0-1) Project: WNUC01519
Sample ID: 487768014 Client ID: WNUC009
Matrix: Solid
Collect Date: 13-AUG-19 08:00
Receive Date: 15-AUG-19
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	4.80	+/-15.9	27.5	50.0	pCi/g		JJ3	09/12/19	0138	1908282		1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	DOE EML HASL-300, Tc-02-RC Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			98	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Report Date: September 13, 2019

Company : Westinghouse Electric Company, LLC
Address : PO Drawer R

Columbia, South Carolina 29205

Contact: Ms. Cynthia Logsdon
Project: ENV-CONSENTA

Client Sample ID:	SS-14 (1-3)	Project:	WNUC01519
Sample ID:	487768015	Client ID:	WNUC009
Matrix:	Solid		
Collect Date:	13-AUG-19 08:15		
Receive Date:	15-AUG-19		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	1.57	+/-15.0	26.2	50.0	pCi/g		JJ3	09/12/19	0155	1908282		1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	DOE EML HASL-300, Tc-02-RC Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			103	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 13, 2019

Company : Westinghouse Electric Company, LLC
Address : PO Drawer R

Columbia, South Carolina 29205

Contact: Ms. Cynthia Logsdon
Project: ENV-CONSENTA

Client Sample ID:	SS-14 (3-5)	Project:	WNUC01519
Sample ID:	487768016	Client ID:	WNUC009
Matrix:	Solid		
Collect Date:	13-AUG-19 09:00		
Receive Date:	15-AUG-19		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
Rad Liquid Scintillation Analysis												
Liquid Scint Tc99, Soil "As Received"												
Technetium-99	U	4.99	+/-13.7	23.6	50.0	pCi/g		JJ3	09/12/19	0212	1908282	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	DOE EML HASL-300, Tc-02-RC Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			100	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Report Date: September 13, 2019

Company : Westinghouse Electric Company, LLC
Address : PO Drawer R

Columbia, South Carolina 29205

Contact: Ms. Cynthia Logsdon
Project: ENV-CONSENTA

Client Sample ID:	SS-14 (5-7)	Project:	WNUC01519
Sample ID:	487768017	Client ID:	WNUC009
Matrix:	Solid		
Collect Date:	13-AUG-19 09:10		
Receive Date:	15-AUG-19		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-2.9	+/-18.6	32.5	50.0	pCi/g			RP1	09/08/19	0539	1908284	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	DOE EML HASL-300, Tc-02-RC Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			94.1	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Contact: Ms. Cynthia Logsdon
Project: ENV-CONSENTA

Client Sample ID:	SS-14-DUP (5-7)	Project:	WNUC01519
Sample ID:	487768018	Client ID:	WNUC009
Matrix:	Solid		
Collect Date:	13-AUG-19 09:10		
Receive Date:	15-AUG-19		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
Rad Liquid Scintillation Analysis												
Liquid Scint Tc99, Soil "As Received"												
Technetium-99	U	9.42	+/-16.0	27.2	50.0	pCi/g			RP1	09/08/19	0600 1908284	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	DOE EML HASL-300, Tc-02-RC Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			97.4	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Contact: Ms. Cynthia Logsdon
Project: ENV-CONSENTA

Client Sample ID:	SS-10 (0-1)	Project:	WNUC01519
Sample ID:	487768019	Client ID:	WNUC009
Matrix:	Solid		
Collect Date:	13-AUG-19 09:55		
Receive Date:	15-AUG-19		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
Rad Liquid Scintillation Analysis												
Liquid Scint Tc99, Soil "As Received"												
Technetium-99	U	-7.99	+/-20.4	35.9	50.0	pCi/g			RP1	09/08/19	0621 1908284	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	DOE EML HASL-300, Tc-02-RC Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			89.6	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Contact: Ms. Cynthia Logsdon
Project: ENV-CONSENTA

Client Sample ID:	SS-10 (1-3)	Project:	WNUC01519
Sample ID:	487768020	Client ID:	WNUC009
Matrix:	Solid		
Collect Date:	13-AUG-19 10:15		
Receive Date:	15-AUG-19		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.334	+/-18.2	31.7	50.0	pCi/g			RP1	09/08/19	0643	1908284	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	DOE EML HASL-300, Tc-02-RC Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			95.4	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Contact: Ms. Cynthia Logsdon
Project: ENV-CONSENTA

Client Sample ID:	SS-10 (3-5)	Project:	WNUC01519
Sample ID:	487768021	Client ID:	WNUC009
Matrix:	Solid		
Collect Date:	13-AUG-19 10:35		
Receive Date:	15-AUG-19		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
Rad Liquid Scintillation Analysis												
Liquid Scint Tc99, Soil "As Received"												
Technetium-99	U	-0.137	+/-19.5	33.8	50.0	pCi/g			RP1	09/08/19	0704 1908284	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	DOE EML HASL-300, Tc-02-RC Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			97.3	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Contact: Ms. Cynthia Logsdon
Project: ENV-CONSENTA

Client Sample ID:	SS-10 (5-7)	Project:	WNUC01519
Sample ID:	487768022	Client ID:	WNUC009
Matrix:	Solid		
Collect Date:	13-AUG-19 10:45		
Receive Date:	15-AUG-19		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
Rad Liquid Scintillation Analysis												
Liquid Scint Tc99, Soil "As Received"												
Technetium-99	U	-6.79	+/-17.6	31.1	50.0	pCi/g			RP1	09/08/19	0726 1908284	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	DOE EML HASL-300, Tc-02-RC Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			95.9	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Contact: Ms. Cynthia Logsdon
Project: ENV-CONSENTA

Client Sample ID:	SS-8 (0-1)	Project:	WNUC01519
Sample ID:	487768023	Client ID:	WNUC009
Matrix:	Solid		
Collect Date:	13-AUG-19 11:25		
Receive Date:	15-AUG-19		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
Rad Liquid Scintillation Analysis												
Liquid Scint Tc99, Soil "As Received"												
Technetium-99	U	-19.7	+/-18.9	34.2	50.0	pCi/g			RP1	09/08/19	0747 1908284	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	DOE EML HASL-300, Tc-02-RC Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			98.7	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Contact: Ms. Cynthia Logsdon
Project: ENV-CONSENTA

Client Sample ID:	SS-8 (1-3)	Project:	WNUC01519
Sample ID:	487768024	Client ID:	WNUC009
Matrix:	Solid		
Collect Date:	13-AUG-19 11:50		
Receive Date:	15-AUG-19		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	5.52	+/-22.3	38.3	50.0	pCi/g			RP1	09/08/19	0809	1908284	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	DOE EML HASL-300, Tc-02-RC Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			98.3	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Contact: Ms. Cynthia Logsdon
Project: ENV-CONSENTA

Client Sample ID:	SS-8 (3-5)	Project:	WNUC01519
Sample ID:	487768025	Client ID:	WNUC009
Matrix:	Solid		
Collect Date:	13-AUG-19 12:10		
Receive Date:	15-AUG-19		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	1.09	+/-21.1	36.6	50.0	pCi/g			RP1	09/08/19	0830	1908284	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	DOE EML HASL-300, Tc-02-RC Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			94.3	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Contact: Ms. Cynthia Logsdon
Project: ENV-CONSENTA

Client Sample ID:	SS-8 (5-7)	Project:	WNUC01519
Sample ID:	487768026	Client ID:	WNUC009
Matrix:	Solid		
Collect Date:	13-AUG-19 12:30		
Receive Date:	15-AUG-19		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
Rad Liquid Scintillation Analysis												
Liquid Scint Tc99, Soil "As Received"												
Technetium-99	U	-4.71	+/-15.5	27.2	50.0	pCi/g			RP1	09/08/19	0852 1908284	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	DOE EML HASL-300, Tc-02-RC Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			96.8	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Company : Westinghouse Electric Company, LLC
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Contact: Ms. Cynthia Logsdon
Project: ENV-CONSENTA

Client Sample ID: SS-7 (0-1) Project: WNUC01519
Sample ID: 487768027 Client ID: WNUC009
Matrix: Solid
Collect Date: 13-AUG-19 13:20
Receive Date: 15-AUG-19
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	8.60	+/-17.1	29.2	50.0	pCi/g			RP1	09/08/19	0913	1908284	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	DOE EML HASL-300, Tc-02-RC Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			93.6	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Contact: Ms. Cynthia Logsdon
Project: ENV-CONSENTA

Client Sample ID: SS-7 (1-3) Project: WNUC01519
Sample ID: 487768028 Client ID: WNUC009
Matrix: Solid
Collect Date: 13-AUG-19 13:45
Receive Date: 15-AUG-19
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-22.9	+/-23.0	41.4	50.0	pCi/g			RP1	09/08/19	0935	1908284	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	DOE EML HASL-300, Tc-02-RC Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			95.6	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Contact: Ms. Cynthia Logsdon
Project: ENV-CONSENTA

Client Sample ID:	SS-7 (3-5)	Project:	WNUC01519
Sample ID:	487768029	Client ID:	WNUC009
Matrix:	Solid		
Collect Date:	13-AUG-19 14:05		
Receive Date:	15-AUG-19		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
Rad Liquid Scintillation Analysis												
Liquid Scint Tc99, Soil "As Received"												
Technetium-99	U	-13.6	+/-23.0	40.8	50.0	pCi/g			RP1	09/08/19	0956 1908284	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	DOE EML HASL-300, Tc-02-RC Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			94.1	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Contact: Ms. Cynthia Logsdon
Project: ENV-CONSENTA

Client Sample ID:	SS-7 (5-7)	Project:	WNUC01519
Sample ID:	487768030	Client ID:	WNUC009
Matrix:	Solid		
Collect Date:	13-AUG-19 14:15		
Receive Date:	15-AUG-19		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-2.13	+/-19.0	33.1	50.0	pCi/g			RP1	09/08/19	1017	1908284	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	DOE EML HASL-300, Tc-02-RC Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			93.6	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Contact: Ms. Cynthia Logsdon
Project: ENV-CONSENTA

Client Sample ID:	SS-9 (0-1)	Project:	WNUC01519
Sample ID:	487768031	Client ID:	WNUC009
Matrix:	Solid		
Collect Date:	13-AUG-19 14:45		
Receive Date:	15-AUG-19		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-13.4	+/-20.4	36.3	50.0	pCi/g			RP1	09/08/19	1039	1908284	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	DOE EML HASL-300, Tc-02-RC Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			96	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Contact: Ms. Cynthia Logsdon
Project: ENV-CONSENTA

Client Sample ID:	SS-9 (1-3)	Project:	WNUC01519
Sample ID:	487768032	Client ID:	WNUC009
Matrix:	Solid		
Collect Date:	13-AUG-19 15:05		
Receive Date:	15-AUG-19		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
Rad Liquid Scintillation Analysis												
Liquid Scint Tc99, Soil "As Received"												
Technetium-99	U	-9.16	+/-25.5	45.3	50.0	pCi/g		JJ3	09/08/19	0715	1908285	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	DOE EML HASL-300, Tc-02-RC Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			90.8	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 13, 2019

Company : Westinghouse Electric Company, LLC
Address : PO Drawer R

Columbia, South Carolina 29205

Contact: Ms. Cynthia Logsdon
Project: ENV-CONSENTA

Client Sample ID: SS-9 (3-5) Project: WNUC01519
Sample ID: 487768033 Client ID: WNUC009
Matrix: Solid
Collect Date: 13-AUG-19 15:30
Receive Date: 15-AUG-19
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
Rad Liquid Scintillation Analysis												
Liquid Scint Tc99, Soil "As Received"												
Technetium-99	U	0.572	+/-24.6	43.0	50.0	pCi/g		JJ3	09/08/19	0732	1908285	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	DOE EML HASL-300, Tc-02-RC Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			93.3	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Columbia, South Carolina 29205

Contact: Ms. Cynthia Logsdon
Project: ENV-CONSENTA

Client Sample ID:	SS-9 (5-7)	Project:	WNUC01519
Sample ID:	487768034	Client ID:	WNUC009
Matrix:	Solid		
Collect Date:	13-AUG-19 15:45		
Receive Date:	15-AUG-19		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	18.1	+/-18.8	31.5	50.0	pCi/g		JJ3	09/08/19	0749	1908285		1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	DOE EML HASL-300, Tc-02-RC Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			96.6	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Company : Westinghouse Electric Company, LLC
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Columbia, South Carolina 29205

Contact: Ms. Cynthia Logsdon
Project: ENV-CONSENTA

Client Sample ID: SS-3 (0-1) Project: WNUC01519
Sample ID: 487768035 Client ID: WNUC009
Matrix: Solid
Collect Date: 14-AUG-19 08:45
Receive Date: 15-AUG-19
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
Rad Liquid Scintillation Analysis												
Liquid Scint Tc99, Soil "As Received"												
Technetium-99	U	12.9	+/-25.0	42.7	50.0	pCi/g		JJ3	09/08/19	0805	1908285	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	DOE EML HASL-300, Tc-02-RC Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			93.5	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Contact: Ms. Cynthia Logsdon
Project: ENV-CONSENTA

Client Sample ID:	SS-3 (1-3)	Project:	WNUC01519
Sample ID:	487768036	Client ID:	WNUC009
Matrix:	Solid		
Collect Date:	14-AUG-19 09:00		
Receive Date:	15-AUG-19		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
Rad Liquid Scintillation Analysis												
Liquid Scint Tc99, Soil "As Received"												
Technetium-99	U	4.83	+/-20.2	35.0	50.0	pCi/g		JJ3	09/08/19	0822	1908285	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	DOE EML HASL-300, Tc-02-RC Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			97.5	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Contact: Ms. Cynthia Logsdon
Project: ENV-CONSENTA

Client Sample ID:	SS-3 (3-5)	Project:	WNUC01519
Sample ID:	487768037	Client ID:	WNUC009
Matrix:	Solid		
Collect Date:	14-AUG-19 09:15		
Receive Date:	15-AUG-19		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
Rad Liquid Scintillation Analysis												
Liquid Scint Tc99, Soil "As Received"												
Technetium-99	U	-0.193	+/-12.8	22.4	50.0	pCi/g		JJ3	09/08/19	0838	1908285	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	DOE EML HASL-300, Tc-02-RC Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			88.2	(15%-125%)

Notes:
Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Contact: Ms. Cynthia Logsdon
Project: ENV-CONSENTA

Client Sample ID:	SS-3 (5-7)	Project:	WNUC01519
Sample ID:	487768038	Client ID:	WNUC009
Matrix:	Solid		
Collect Date:	14-AUG-19 09:20		
Receive Date:	15-AUG-19		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
Rad Liquid Scintillation Analysis												
Liquid Scint Tc99, Soil "As Received"												
Technetium-99	U	3.12	+/-21.5	37.3	50.0	pCi/g		JJ3	09/08/19	0855	1908285	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	DOE EML HASL-300, Tc-02-RC Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			98.4	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Contact: Ms. Cynthia Logsdon
Project: ENV-CONSENTA

Client Sample ID:	SS-3-DUP (5-7)	Project:	WNUC01519
Sample ID:	487768039	Client ID:	WNUC009
Matrix:	Solid		
Collect Date:	14-AUG-19 09:20		
Receive Date:	15-AUG-19		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	1.35	+/-22.0	38.3	50.0	pCi/g		JJ3	09/08/19	0912	1908285		1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	DOE EML HASL-300, Tc-02-RC Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			96.9	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Contact: Ms. Cynthia Logsdon
Project: ENV-CONSENTA

Client Sample ID:	SS-4 (0-1)	Project:	WNUC01519
Sample ID:	487768040	Client ID:	WNUC009
Matrix:	Solid		
Collect Date:	14-AUG-19 09:50		
Receive Date:	15-AUG-19		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
Rad Liquid Scintillation Analysis												
Liquid Scint Tc99, Soil "As Received"												
Technetium-99	U	2.35	+/-21.2	36.8	50.0	pCi/g		JJ3	09/08/19	0928	1908285	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	DOE EML HASL-300, Tc-02-RC Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			96.1	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Contact: Ms. Cynthia Logsdon
Project: ENV-CONSENTA

Client Sample ID:	SS-4 (1-3)	Project:	WNUC01519
Sample ID:	487768041	Client ID:	WNUC009
Matrix:	Solid		
Collect Date:	14-AUG-19 10:00		
Receive Date:	15-AUG-19		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
Rad Liquid Scintillation Analysis												
Liquid Scint Tc99, Soil "As Received"												
Technetium-99	U	16.1	+/-25.0	42.4	50.0	pCi/g		JJ3	09/08/19	0945	1908285	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	DOE EML HASL-300, Tc-02-RC Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			93.1	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Report Date: September 13, 2019

Company : Westinghouse Electric Company, LLC
Address : PO Drawer R

Columbia, South Carolina 29205

Contact: Ms. Cynthia Logsdon
Project: ENV-CONSENTA

Client Sample ID:	SS-4 (3-5)	Project:	WNUC01519
Sample ID:	487768042	Client ID:	WNUC009
Matrix:	Solid		
Collect Date:	14-AUG-19 10:10		
Receive Date:	15-AUG-19		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
Rad Liquid Scintillation Analysis												
Liquid Scint Tc99, Soil "As Received"												
Technetium-99	U	7.72	+/-14.7	25.1	50.0	pCi/g		JJ3	09/08/19	1001	1908285	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	DOE EML HASL-300, Tc-02-RC Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			91.4	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Address : PO Drawer R

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Contact: Ms. Cynthia Logsdon
Project: ENV-CONSENTA

Client Sample ID: SS-4 (5-7) Project: WNUC01519
Sample ID: 487768043 Client ID: WNUC009
Matrix: Solid
Collect Date: 14-AUG-19 10:20
Receive Date: 15-AUG-19
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
Rad Liquid Scintillation Analysis												
Liquid Scint Tc99, Soil "As Received"												
Technetium-99	U	-3.26	+/-11.9	21.1	50.0	pCi/g		JJ3	09/08/19	1018	1908285	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	DOE EML HASL-300, Tc-02-RC Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			96	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Company : Westinghouse Electric Company, LLC
Address : PO Drawer R

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Contact: Ms. Cynthia Logsdon
Project: ENV-CONSENTA

Client Sample ID: SS-6 (0-1) Project: WNUC01519
Sample ID: 487768044 Client ID: WNUC009
Matrix: Solid
Collect Date: 14-AUG-19 11:25
Receive Date: 15-AUG-19
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	7.58	+/-23.3	40.0	50.0	pCi/g		JJ3	09/08/19	1035	1908285		1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	DOE EML HASL-300, Tc-02-RC Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			95.5	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Contact: Ms. Cynthia Logsdon
Project: ENV-CONSENTA

Client Sample ID: SS-6 (1-3) Project: WNUC01519
Sample ID: 487768045 Client ID: WNUC009
Matrix: Solid
Collect Date: 14-AUG-19 11:40
Receive Date: 15-AUG-19
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
Rad Liquid Scintillation Analysis												
Liquid Scint Tc99, Soil "As Received"												
Technetium-99	U	-0.921	+/-24.2	42.4	50.0	pCi/g		JJ3	09/08/19	1051	1908285	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	DOE EML HASL-300, Tc-02-RC Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			93.5	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Contact: Ms. Cynthia Logsdon
Project: ENV-CONSENTA

Client Sample ID: SS-6 (3-5) Project: WNUC01519
Sample ID: 487768046 Client ID: WNUC009
Matrix: Solid
Collect Date: 14-AUG-19 11:55
Receive Date: 15-AUG-19
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
Rad Liquid Scintillation Analysis												
Liquid Scint Tc99, Soil "As Received"												
Technetium-99	U	-13.2	+/-17.8	32.2	50.0	pCi/g		JJ3	09/08/19	1108	1908285	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	DOE EML HASL-300, Tc-02-RC Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			99.4	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Contact: Ms. Cynthia Logsdon
Project: ENV-CONSENTA

Client Sample ID:	SS-6 (5-7)	Project:	WNUC01519
Sample ID:	487768047	Client ID:	WNUC009
Matrix:	Solid		
Collect Date:	14-AUG-19 12:10		
Receive Date:	15-AUG-19		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
Rad Liquid Scintillation Analysis												
Liquid Scint Tc99, Soil "As Received"												
Technetium-99	U	-6.56	+/-23.6	41.9	50.0	pCi/g		JJ3	09/08/19	1103	1908287	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	DOE EML HASL-300, Tc-02-RC Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			95.3	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Contact: Ms. Cynthia Logsdon
Project: ENV-CONSENTA

Client Sample ID:	SS-5 (0-1)	Project:	WNUC01519
Sample ID:	487768048	Client ID:	WNUC009
Matrix:	Solid		
Collect Date:	14-AUG-19 13:20		
Receive Date:	15-AUG-19		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
Rad Liquid Scintillation Analysis												
Liquid Scint Tc99, Soil "As Received"												
Technetium-99	U	0.637	+/-21.2	36.9	50.0	pCi/g		JJ3	09/08/19	1120	1908287	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	DOE EML HASL-300, Tc-02-RC Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			99.7	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Company : Westinghouse Electric Company, LLC
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Contact: Ms. Cynthia Logsdon
Project: ENV-CONSENTA

Client Sample ID: SS-5 (1-3) Project: WNUC01519
Sample ID: 487768049 Client ID: WNUC009
Matrix: Solid
Collect Date: 14-AUG-19 13:35
Receive Date: 15-AUG-19
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
Rad Liquid Scintillation Analysis												
Liquid Scint Tc99, Soil "As Received"												
Technetium-99	U	-1.62	+/-24.3	42.7	50.0	pCi/g		JJ3	09/08/19	1136	1908287	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	DOE EML HASL-300, Tc-02-RC Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			95.4	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 13, 2019

Company : Westinghouse Electric Company, LLC
Address : PO Drawer R

Columbia, South Carolina 29205

Contact: Ms. Cynthia Logsdon
Project: ENV-CONSENTA

Client Sample ID: SS-5 (3-5) Project: WNUC01519
Sample ID: 487768050 Client ID: WNUC009
Matrix: Solid
Collect Date: 14-AUG-19 13:45
Receive Date: 15-AUG-19
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
Rad Liquid Scintillation Analysis												
Liquid Scint Tc99, Soil "As Received"												
Technetium-99	U	4.46	+/-20.6	35.7	50.0	pCi/g		JJ3	09/08/19	1153	1908287	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	DOE EML HASL-300, Tc-02-RC Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			99.7	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 13, 2019

Company : Westinghouse Electric Company, LLC
Address : PO Drawer R

Columbia, South Carolina 29205

Contact: Ms. Cynthia Logsdon
Project: ENV-CONSENTA

Client Sample ID:	SS-5 (5-7)	Project:	WNUC01519
Sample ID:	487768051	Client ID:	WNUC009
Matrix:	Solid		
Collect Date:	14-AUG-19 13:55		
Receive Date:	15-AUG-19		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
Rad Liquid Scintillation Analysis												
Liquid Scint Tc99, Soil "As Received"												
Technetium-99	U	0.843	+/-16.1	28.2	50.0	pCi/g		JJ3	09/08/19	1210	1908287	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	DOE EML HASL-300, Tc-02-RC Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			102	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 13, 2019

Company : Westinghouse Electric Company, LLC
Address : PO Drawer R

Columbia, South Carolina 29205

Contact: Ms. Cynthia Logsdon
Project: ENV-CONSENTA

Client Sample ID:	SP-1	Project:	WNUC01519
Sample ID:	487768052	Client ID:	WNUC009
Matrix:	Solid		
Collect Date:	14-AUG-19 14:30		
Receive Date:	15-AUG-19		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	7.73	+/-21.1	36.2	50.0	pCi/g		JJ3	09/08/19	1226	1908287		1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	DOE EML HASL-300, Tc-02-RC Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			96.7	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 13, 2019

Company : Westinghouse Electric Company, LLC
Address : PO Drawer R

Columbia, South Carolina 29205

Contact: Ms. Cynthia Logsdon
Project: ENV-CONSENTA

Client Sample ID:	SP-2	Project:	WNUC01519
Sample ID:	487768053	Client ID:	WNUC009
Matrix:	Solid		
Collect Date:	14-AUG-19 14:35		
Receive Date:	15-AUG-19		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
Rad Liquid Scintillation Analysis												
Liquid Scint Tc99, Soil "As Received"												
Technetium-99	U	-1.25	+/-22.5	39.5	50.0	pCi/g		JJ3	09/08/19	1243	1908287	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	DOE EML HASL-300, Tc-02-RC Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			95.1	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 13, 2019

Company : Westinghouse Electric Company, LLC
Address : PO Drawer R

Columbia, South Carolina 29205

Contact: Ms. Cynthia Logsdon
Project: ENV-CONSENTA

Client Sample ID:	SS-2 (0-1)	Project:	WNUC01519
Sample ID:	487768054	Client ID:	WNUC009
Matrix:	Solid		
Collect Date:	14-AUG-19 15:25		
Receive Date:	15-AUG-19		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
Rad Liquid Scintillation Analysis												
Liquid Scint Tc99, Soil "As Received"												
Technetium-99	U	-2.91	+/-24.0	42.1	50.0	pCi/g		JJ3	09/08/19	1300	1908287	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	DOE EML HASL-300, Tc-02-RC Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			96.4	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 13, 2019

Company : Westinghouse Electric Company, LLC
Address : PO Drawer R

Columbia, South Carolina 29205

Contact: Ms. Cynthia Logsdon
Project: ENV-CONSENTA

Client Sample ID:	SS-2 (1-3)	Project:	WNUC01519
Sample ID:	487768055	Client ID:	WNUC009
Matrix:	Solid		
Collect Date:	14-AUG-19 15:40		
Receive Date:	15-AUG-19		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
Rad Liquid Scintillation Analysis												
Liquid Scint Tc99, Soil "As Received"												
Technetium-99	U	9.60	+/-19.7	33.7	50.0	pCi/g		JJ3	09/08/19	1316	1908287	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	DOE EML HASL-300, Tc-02-RC Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			102	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 13, 2019

Company : Westinghouse Electric Company, LLC
Address : PO Drawer R

Columbia, South Carolina 29205

Contact: Ms. Cynthia Logsdon
Project: ENV-CONSENTA

Client Sample ID:	SS-2 (3-5)	Project:	WNUC01519
Sample ID:	487768056	Client ID:	WNUC009
Matrix:	Solid		
Collect Date:	14-AUG-19 15:55		
Receive Date:	15-AUG-19		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
Rad Liquid Scintillation Analysis												
Liquid Scint Tc99, Soil "As Received"												
Technetium-99	U	4.78	+/-21.5	37.2	50.0	pCi/g		JJ3	09/08/19	1333	1908287	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	DOE EML HASL-300, Tc-02-RC Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			97.8	(15%-125%)

Notes:
Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 13, 2019

Company : Westinghouse Electric Company, LLC
Address : PO Drawer R

Columbia, South Carolina 29205

Contact: Ms. Cynthia Logsdon
Project: ENV-CONSENTA

Client Sample ID:	SS-2 (5-7)	Project:	WNUC01519
Sample ID:	487768057	Client ID:	WNUC009
Matrix:	Solid		
Collect Date:	14-AUG-19 16:05		
Receive Date:	15-AUG-19		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
Rad Liquid Scintillation Analysis												
Liquid Scint Tc99, Soil "As Received"												
Technetium-99	U	4.02	+/-18.5	32.0	50.0	pCi/g		JJ3	09/08/19	1349	1908287	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	DOE EML HASL-300, Tc-02-RC Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			97.9	(15%-125%)

Notes:
Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 13, 2019

Company : Westinghouse Electric Company, LLC
Address : PO Drawer R

Columbia, South Carolina 29205

Contact: Ms. Cynthia Logsdon
Project: ENV-CONSENTA

Client Sample ID:	SS-1 (0-1)	Project:	WNUC01519
Sample ID:	487768058	Client ID:	WNUC009
Matrix:	Solid		
Collect Date:	15-AUG-19 08:30		
Receive Date:	15-AUG-19		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
Rad Liquid Scintillation Analysis												
Liquid Scint Tc99, Soil "As Received"												
Technetium-99	U	0.171	+/-14.5	25.4	50.0	pCi/g		JJ3	09/08/19	1406	1908287	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	DOE EML HASL-300, Tc-02-RC Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			99.2	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 13, 2019

Company : Westinghouse Electric Company, LLC
Address : PO Drawer R

Columbia, South Carolina 29205

Contact: Ms. Cynthia Logsdon
Project: ENV-CONSENTA

Client Sample ID:	SS-1 (1-3)	Project:	WNUC01519
Sample ID:	487768059	Client ID:	WNUC009
Matrix:	Solid		
Collect Date:	15-AUG-19 08:55		
Receive Date:	15-AUG-19		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
Rad Liquid Scintillation Analysis												
Liquid Scint Tc99, Soil "As Received"												
Technetium-99	U	4.39	+/-16.8	29.0	50.0	pCi/g		JJ3	09/08/19	1423	1908287	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	DOE EML HASL-300, Tc-02-RC Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			95.5	(15%-125%)

Notes:
Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 13, 2019

Company : Westinghouse Electric Company, LLC
Address : PO Drawer R

Columbia, South Carolina 29205

Contact: Ms. Cynthia Logsdon
Project: ENV-CONSENTA

Client Sample ID:	SS-1 (3-5)	Project:	WNUC01519
Sample ID:	487768060	Client ID:	WNUC009
Matrix:	Solid		
Collect Date:	15-AUG-19 09:05		
Receive Date:	15-AUG-19		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
Rad Liquid Scintillation Analysis												
Liquid Scint Tc99, Soil "As Received"												
Technetium-99	U	-0.576	+/-23.3	40.8	50.0	pCi/g		JJ3	09/08/19	1440	1908287	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	DOE EML HASL-300, Tc-02-RC Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			99.9	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 13, 2019

Company : Westinghouse Electric Company, LLC
Address : PO Drawer R

Columbia, South Carolina 29205

Contact: Ms. Cynthia Logsdon
Project: ENV-CONSENTA

Client Sample ID:	SS-1 (5-7)	Project:	WNUC01519
Sample ID:	487768061	Client ID:	WNUC009
Matrix:	Solid		
Collect Date:	15-AUG-19 09:15		
Receive Date:	15-AUG-19		
Collector:	Client		

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
Rad Liquid Scintillation Analysis												
Liquid Scint Tc99, Soil "As Received"												
Technetium-99	U	-4.99	+/-14.8	26.3	50.0	pCi/g		JJ3	09/08/19	1456	1908287	1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	DOE EML HASL-300, Tc-02-RC Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			97.6	(15%-125%)

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 13, 2019

Company : Westinghouse Electric Company, LLC
Address : PO Drawer R

Columbia, South Carolina 29205

Contact: Ms. Cynthia Logsdon
Project: ENV-CONSENTA

Client Sample ID: EB-01-081519

Project: WNUC01519

Sample ID: 487768062

Client ID: WNUC009

Matrix: Water

Collect Date: 15-AUG-19 09:30

Receive Date: 15-AUG-19

Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Liquid "As Received"													
Technetium-99	U	4.19	+/-24.3	41.9	50.0	pCi/L		JJ3	09/08/19	0351	1912084		1

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	DOE EML HASL-300, Tc-02-RC Modified	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Technetium-99m Tracer	Liquid Scint Tc99, Liquid "As Received"			96.4	(15%-125%)

Notes:
Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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QC Summary

Report Date: September 13, 2019

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Westinghouse Electric Company, LLC

PO Drawer R
Columbia, South Carolina

Contact: Ms. Cynthia Logsdon

Workorder: 487768

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Liquid Scintillation											
Batch	1908282										
QC1204359988	487768010	DUP									
Technetium-99	U	8.88	U	1.98	pCi/g	N/A		N/A	JJ3	09/12/19	02:46
	Uncertainty	+/-19.1		+/-10.9							
QC1204359989	LCS										
Technetium-99	429			414	pCi/g		96.3	(75%-125%)		09/12/19	03:02
	Uncertainty			+/-24.3							
QC1204359987	MB										
Technetium-99			U	5.40	pCi/g					09/12/19	02:29
	Uncertainty			+/-11.3							
Batch	1908284										
QC1204359991	487768017	DUP									
Technetium-99	U	-2.9	U	-7.72	pCi/g	N/A		N/A	RP1	09/08/19	11:21
	Uncertainty	+/-18.6		+/-18.0							
QC1204359992	LCS										
Technetium-99	566			500	pCi/g		88.4	(75%-125%)		09/08/19	11:43
	Uncertainty			+/-29.2							
QC1204359990	MB										
Technetium-99			U	-0.872	pCi/g					09/08/19	11:00
	Uncertainty			+/-15.2							
Batch	1908285										
QC1204359994	487768032	DUP									
Technetium-99	U	-9.16	U	-2.61	pCi/g	N/A		N/A	JJ3	09/08/19	11:41
	Uncertainty	+/-25.5		+/-21.8							
QC1204359995	LCS										
Technetium-99	394			389	pCi/g		98.9	(75%-125%)		09/08/19	11:57
	Uncertainty			+/-24.1							
QC1204359993	MB										
Technetium-99			U	2.91	pCi/g					09/08/19	11:24
	Uncertainty			+/-12.3							

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QC Summary

Workorder: 487768

Page 2 of 3

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Liquid Scintillation											
Batch	1908287										
QC1204359997	487768057 DUP										
Technetium-99	U	4.02	U	-9.39	pCi/g	N/A		N/A	JJ3	09/08/19	15:30
	Uncertainty	+/-18.5		+/-18.0							
QC1204359998	LCS										
Technetium-99	503			519	pCi/g		103	(75%-125%)		09/08/19	15:47
	Uncertainty			+/-30.3							
QC1204359996	MB										
Technetium-99			U	2.68	pCi/g					09/08/19	15:13
	Uncertainty			+/-14.3							
Batch	1912084										
QC1204369419	LCS										
Technetium-99	854			881	pCi/L		103	(75%-125%)	JJ3	09/08/19	04:34
	Uncertainty			+/-48.2							
QC1204369420	LCSD										
Technetium-99	854			861	pCi/L	2.24	101	(0%-20%)		09/08/19	04:55
	Uncertainty			+/-46.7							
QC1204369418	MB										
Technetium-99			U	6.72	pCi/L					09/08/19	04:13
	Uncertainty			+/-28.4							

Notes:

Counting Uncertainty is calculated at the 95% confidence level (1.96-sigma).

The Qualifiers in this report are defined as follows:

- ** Analyte is a Tracer compound
- < Result is less than value reported
- > Result is greater than value reported
- BD Results are either below the MDC or tracer recovery is low
- FA Failed analysis.
- H Analytical holding time was exceeded
- J See case narrative for an explanation
- J Value is estimated
- K Analyte present. Reported value may be biased high. Actual value is expected to be lower.
- L Analyte present. Reported value may be biased low. Actual value is expected to be higher.
- M M if above MDC and less than LLD
- M REMP Result > MDC/CL and < RDL
- N/A RPD or %Recovery limits do not apply.

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QC Summary

Workorder: 487768

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
N1	See case narrative										
ND	Analyte concentration is not detected above the detection limit										
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier										
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.										
R	Sample results are rejected										
U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.										
UI	Gamma Spectroscopy--Uncertain identification										
UJ	Gamma Spectroscopy--Uncertain identification										
UL	Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.										
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier										
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.										
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.										
h	Preparation or preservation holding time was exceeded										

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

* Indicates that a Quality Control parameter was not within specifications.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

**Radiochemistry
Technical Case Narrative
Westinghouse Electric Co, LLC
SDG #: 487768**

Product: Liquid Scint Tc99, Soil

Analytical Method: DOE EML HASL-300, Tc-02-RC Modified

Analytical Procedure: GL-RAD-A-059 REV# 5

Analytical Batch: 1908282

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
487768001	SS-13 (0-1)
487768002	SS-13 (1-3)
487768003	SS-13 (3-5)
487768004	SS-13 (5-7)
487768005	SS-13-DUP (5-7)
487768006	SS-11 (0-1)
487768007	SS-11 (1-3)
487768008	SS-11 (3-5)
487768009	SS-11 (5-7)
487768010	SS-12 (0-1)
487768011	SS-12 (1-3)
487768012	SS-12 (3-5)
487768013	SS-12 (5-7)
487768014	SS-14 (0-1)
487768015	SS-14 (1-3)
487768016	SS-14 (3-5)
1204359987	Method Blank (MB)
1204359988	487768010(SS-12 (0-1)) Sample Duplicate (DUP)
1204359989	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: Liquid Scint Tc99, Soil

Analytical Method: DOE EML HASL-300, Tc-02-RC Modified

Analytical Procedure: GL-RAD-A-059 REV# 5

Analytical Batch: 1908284

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
------------------------------	--

487768017	SS-14 (5-7)
487768018	SS-14-DUP (5-7)
487768019	SS-10 (0-1)
487768020	SS-10 (1-3)
487768021	SS-10 (3-5)
487768022	SS-10 (5-7)
487768023	SS-8 (0-1)
487768024	SS-8 (1-3)
487768025	SS-8 (3-5)
487768026	SS-8 (5-7)
487768027	SS-7 (0-1)
487768028	SS-7 (1-3)
487768029	SS-7 (3-5)
487768030	SS-7 (5-7)
487768031	SS-9 (0-1)
1204359990	Method Blank (MB)
1204359991	487768017(SS-14 (5-7)) Sample Duplicate (DUP)
1204359992	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: Liquid Scint Tc99, Soil

Analytical Method: DOE EML HASL-300, Tc-02-RC Modified

Analytical Procedure: GL-RAD-A-059 REV# 5

Analytical Batch: 1908285

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
487768032	SS-9 (1-3)
487768033	SS-9 (3-5)
487768034	SS-9 (5-7)
487768035	SS-3 (0-1)
487768036	SS-3 (1-3)
487768037	SS-3 (3-5)
487768038	SS-3 (5-7)
487768039	SS-3-DUP (5-7)
487768040	SS-4 (0-1)
487768041	SS-4 (1-3)
487768042	SS-4 (3-5)
487768043	SS-4 (5-7)
487768044	SS-6 (0-1)
487768045	SS-6 (1-3)
487768046	SS-6 (3-5)
1204359993	Method Blank (MB)
1204359994	487768032(SS-9 (1-3)) Sample Duplicate (DUP)

1204359995

Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: Liquid Scint Tc99, Soil

Analytical Method: DOE EML HASL-300, Tc-02-RC Modified

Analytical Procedure: GL-RAD-A-059 REV# 5

Analytical Batch: 1908287

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
487768047	SS-6 (5-7)
487768048	SS-5 (0-1)
487768049	SS-5 (1-3)
487768050	SS-5 (3-5)
487768051	SS-5 (5-7)
487768052	SP-1
487768053	SP-2
487768054	SS-2 (0-1)
487768055	SS-2 (1-3)
487768056	SS-2 (3-5)
487768057	SS-2 (5-7)
487768058	SS-1 (0-1)
487768059	SS-1 (1-3)
487768060	SS-1 (3-5)
487768061	SS-1 (5-7)
1204359996	Method Blank (MB)
1204359997	487768057(SS-2 (5-7)) Sample Duplicate (DUP)
1204359998	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Product: Liquid Scint Tc99, Liquid

Analytical Method: DOE EML HASL-300, Tc-02-RC Modified

Analytical Procedure: GL-RAD-A-059 REV# 5

Analytical Batch: 1912084

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
487768062	EB-01-081519
1204369418	Method Blank (MB)
1204369419	Laboratory Control Sample (LCS)
1204369420	Laboratory Control Sample Duplicate (LCSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

There are no exceptions, anomalies or deviations from the specified methods. All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

GEL Laboratories LLC
 Chemistry | Radiochemistry | Radiobiology | Speciality Analytics
Chain of Custody and Analytical Request
 GEL Project Manager:
 Phone # 803.647.1920
 Fax # _____
 Send Results To: joynrdp@westinghouse.com

GEL Laboratories, LLC
 2040 Savage Road
 Charleston, SC 29407
 Phone: (843) 556-8171
 Fax: (843) 766-1178
Sample Analysis Requested ⁽⁶⁾ (Fill in the number of containers for each test)
 <- Preservative Type (6)
 Comments
 Note: extra sample is required for sample specific QC

Sample ID	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code ^(a)	Field Filtered ^(b)	Sample Matrix ^(c)	Radiative (f) Yes, please supply isotopic info) (g) Known or Possible Hazards	Should this sample be considered:	Total number of containers	Preservative Type (6)	Comments
SS-13 (0-1)	08-12-19	1135	C	N	SO			1		
SS-13 (1-3)	08-12-19	1210	C	N	SO			1		
SS-13 (3-5)	08-12-19	1230	C	N	SO			1		
SS-13 (5-7)	08-12-19	1250	C	N	SO			1		
SS-13-DUP (5-7)	08-12-19	1250	FD	N	SO			1		
SS-11 (0-1)	08-12-19	1410	C	N	SO			1		
SS-11 (1-3)	08-12-19	1425	C	N	SO			1		
SS-11 (3-5)	08-12-19	1520	C	N	SO			1		
SS-11 (5-7)	08-12-19	1540	C	N	SO			1		
SS-12 (0-1)	08-12-19	1600	C	N	SO			1		

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
<u>Will Dressing</u>	<u>08-12-19</u>	<u>1305</u>	<u>[Signature]</u>	<u>08-12-19</u>	<u>1305</u>

TAT Requested: Normal: Rush: _____ Specify: _____ (Subject to Surcharge)
 Fax Results: Yes No E-mail Results
 Select Deliverable: C of A QC Summary Level 1 Level 2 Level 3 Level 4
 Additional Remarks:
 For Lab Receiving Use Only: Custody Seal Intact? Yes No Cooler Temp: _____ °C
 Sample Collection Time Zone: Eastern Pacific Central Mountain Other:
 > For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)
 1.) Chain of Custody Number = Client Determined
 2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
 3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered
 4.) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, ML=Misc Liquid, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Faecal, N=Nasal
 5.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B 7470A - 1).
 6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate. If no preservative is added = leave field blank
 7.) **KNOWN OR POSSIBLE HAZARDS**
 RCRA Metals
 As = Arsenic Hg = Mercury
 Ba = Barium Se = Selenium
 Cd = Cadmium Ag = Silver
 Cr = Chromium MR = Misc. RCRA metals
 Pb = Lead
 Characteristic Hazards
 FL = Flammable/Ignitable
 CO = Corrosive
 RE = Reactive
 TSCA Regulated
 PCB = Polychlorinated biphenyls
 Listed Waste
 LW = Listed Waste
 (F, K, P and U-listed wastes.)
 Waste code(s):
 Other
 OT = Other / Unknown
 (i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
 Description:
 Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

GEL Laboratories LLC
 Chemistry | Radiochemistry | Radiobiology | Speciality Analytics
 2040 Savage Road
 Charleston, SC 29407
 Phone: (843) 556-8171
 Fax: (843) 766-1178

Chain of Custody and Analytical Request
 GEL Work Order Number: _____
 GEL Project Manager: _____
 Phone # 803.647.1920
 Fax # _____

Send Results To: joynerdp@westinghouse.com

Sample ID	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Radiactive (If Yes, please supply isotopic info)	Should this sample be considered:	Total number of containers	Preservative Type (6)	Comments
SS-12-MSD (0-17)	08-12-19	1600	MS	N	SO			1		
SS-12-MSD (0-17)	08-12-19	1600	MSD	N	SO			1		
SS-12 (1-3)	08-12-19	1620	C	N	SO			1		
SS-12 (3-5)	08-12-19	1640	C	N	SO			1		
SS-12 (5-7)	08-12-19	1740	C	N	SO			1		
SS-14 (0-1)	08-13-19	0800	C	N	SO			1		
SS-14 (1-3)	08-13-19	0815	C	N	SO			1		
SS-14 (3-5)	08-13-19	0900	C	N	SO			1		
SS-14 (5-7)	08-13-19	0910	C	N	SO			1		
SS-14-DUP (5-7)	08-13-19	0910	FD	N	SO			1		

Chain of Custody Signatures

Relinquished By (Signed) _____ Date _____ Time _____
 Received by (signed) _____ Date 8/15/19 Time 1305

1. Will Davis 8-15-19 1305
 2. _____
 3. _____

TAT Requested: Normal: Rush: _____ Specify: _____ (Subject to Surcharge)

Fax Results: Yes No E-mail Results

Select Deliverable: C of A QC Summary Level 1 Level 2 Level 3 Level 4

Additional Remarks: _____

For Lab Receiving Use Only: Custody Seal Intact? Yes No Cooler Temp: °C

Sample Collection Time Zone: Eastern Pacific Central Mountain Other:

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)

1.) Chain of Custody Number = Client Determined

2.) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix, Spike Sample, MSD = Matrix, Spike Duplicate Sample, G = Grab, C = Composite

3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered

1.) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, W=Water, ML=Misc Liquid, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Faecal, N=Nasal

3.) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B 7470A - 1).

3.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

7.) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals	Characteristic Hazards	Listed Waste	Other
As = Arsenic	FL = Flammable/Ignitable	LW = Listed Waste	OT = Other / Unknown
Ba = Barium	CO = Corrosive	(F, K, P and U-listed wastes.)	(i.e.: High/low pH, asbestos, beryllium, irritants, other
Cd = Cadmium	RE = Reactive	Waste code(s):	misc. health hazards, etc.)
Cr = Chromium			Description:
Pb = Lead	TSCA Regulated		
	PCB = Polychlorinated biphenyls		

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

GEL Laboratories LLC
 Chemistry | Radiochemistry | Radiobiology | Specialty Analytics
Chain of Custody and Analytical Request
 GEL Work Order Number: _____ GEL Project Manager: _____
 Phone # 803.647.1920
 Fax # _____

GEL Laboratories, LLC
 2040 Savage Road
 Charleston, SC 29407
 Phone: (843) 556-8171
 Fax: (843) 766-1178

Sample ID	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code ^(a)	Field Filtered ^(b)	Sample Matrix ^(c)	Radiactive (If Yes, please supply isotopic info.)	Should this sample be considered:	Total number of containers	Sample Analysis Requested ⁽⁵⁾ (Fill in the number of containers for each test)						Comments					
									(7) Known or possible Hazards	<- Preservative Type (6)										
SS-10 (10-1)	08-13-19	0955	C	N	SO			1												
SS-10 (11-3)	08-13-19	1015	C	N	SO			1												
SS-10 (12-5)	08-13-19	1035	C	N	SO			1												
SS-10 (15-7)	08-13-19	1045	C	N	SO			1												
SS-8 (10-1)	08-13-19	1125	C	N	SO			1												
SS-8 (11-3)	08-13-19	1150	C	N	SO			1												
SS-8 (12-5)	08-13-19	1210	C	N	SO			1												
SS-8 (15-7)	08-13-19	1230	C	N	SO			1												
SS-7 (10-1)	08-13-19	1320	C	N	SO			1												
SS-7 (11-3)	08-13-19	1345	C	N	SO			1												

Chain of Custody Signatures
 Relinquished By (Signed) _____ Date _____ Time _____
 Received by (signed) _____ Date 8/15/19 Time 1305
 1 [Signature]
 2 _____
 3 _____
 TAT Requested: Normal: Rush: _____ Specify: _____ (Subject to Surcharge)
 Fax Results: Yes No Email Results
 Select Deliverable: C of A QC Summary Level 1 Level 2 Level 3 Level 4
 Additional Remarks:
 For Lab Receiving Use Only: Custody Seal Intact? Yes No Cooler Temp: _____ °C
 Sample Collection Time Zone: Eastern Pacific Central Mountain Other

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)
 1) Chain of Custody Number = Client Determined
 2) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
 3) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered
 4) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, W=Water, ML=Misc Liquid, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal
 5) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B 7470A - 1)
 6) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate. If no preservative is added = leave field blank
 7) KNOWN OR POSSIBLE HAZARDS
 RCRA Metals: As = Arsenic, Hg = Mercury, Ba = Barium, Se = Selenium, Cd = Cadmium, Ag = Silver, Cr = Chromium, MR = Misc. RCRA metals, Pb = Lead
 Characteristic Hazards: FL = Flammable/Ignitable, CO = Corrosive, RE = Reactive
 Listed Waste: LW = Listed Waste
 Other: OT = Other / Unknown
 (i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
 Description: _____
 Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

GEL Laboratories LLC
 Chemistry | Radiochemistry | Radiobiology | Specialty Analytics
 2040 Savage Road
 Charleston, SC 29407
 Phone: (843) 556-8171
 Fax: (843) 766-1178

Chain of Custody and Analytical Request
 GEL Work Order Number: _____
 GEL Project Manager: _____

Sample ID <i>* For composites - indicate start and stop date/time</i>	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (6)	Should this sample be considered:		Total number of containers	Sample Analysis Requested (5) (Fill in the number of containers for each test)	Preservative Type (6)	Comments
						Yes, please supply isotopic info.)	(7) Known or possible Hazards				
SS-7 (1-5)	08-13-19	1405	C	N	SA			1			
SS-7 (5-7)	08-13-19	1415	C	N	SA			1			
SS-9 (0-1)	08-13-19	1445	C	N	SA			1			
SS-9 (1-3)	08-13-19	1505	C	N	SA			1			
SS-9 MS (1-3)	08-13-19	1505	MS	N	SA			1			
SS-9 (3-5)	08-13-19	1505	MS	N	SA			1			
SS-9 (5-7)	08-13-19	1530	C	N	SA			1			
SS-3 (0-1)	08-13-19	1545	C	N	SA			1			
SS-3 (1-3)	08-14-19	0845	C	N	SA			1			
	08-14-19	0900	C	N	SA			1			

Relinquished By (Signed) _____ Date _____ Time _____
 Received by (signed) _____ Date _____ Time _____
 1 *Will Dennis-King* 8/15/19 1305
 2 _____
 3 _____

Chain of Custody Signatures

TAT Requested: Normal: Rush: _____ Specify: _____ (Subject to Surcharge)

Fax Results: Yes No *8/15/19*

Select Deliverable: C of A QC Summary Level 1 Level 2 Level 3 Level 4

Additional Remarks: _____

For Lab Receiving Use Only: Custody Seal Intact? Yes No Cooler Temp: _____ °C

Sample Collection Time Zone: Eastern Pacific Central Mountain Other: _____

For sample shipping and delivery details, see Sample Receipt & Review form (SRR.)

1) Chain of Custody Number = Client Determined

2) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite

3) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered

4) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, W=Water, ML=Misc Liquid, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal

5) Sample Analysis Requested: Analytical method requested (i.e. 8250B, 6010B/7470A) and number of containers provided for each (i.e. 8250B - 3, 6010B/7470A - 1).

6) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, if no preservative is added = leave field blank

7) **KNOWN OR POSSIBLE HAZARDS**

RCRA Metals
 As = Arsenic Hg = Mercury
 Ba = Barium Se = Selenium
 Cd = Cadmium Ag = Silver
 Cr = Chromium MR = Misc. RCRA metals
 Pb = Lead

Characteristic Hazards
 FL = Flammable/Ignitable
 CO = Corrosive
 RE = Reactive

Listed Waste
 LW = Listed Waste
 (F, K, P and U-listed wastes.)
 Waste code(s): _____

Other
 OT = Other/Unknown
 (i.e. High/Low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
 Description: _____

Please provide any additional details below regarding handling and/or disposal of site collected from, odd matrices, etc.)

GEL Laboratories, LLC
 2040 Savage Road
 Charleston, SC 29407
 Phone: (843) 556-8171
 Fax: (843) 766-1178

GEL Laboratories LLC
 Chemistry | Radiochemistry | Radiobiology | Speciality Analytics
Chain of Custody and Analytical Request
GEL Project Manager:

Sample ID <i>* For composites - indicate start and stop date/time</i>	Date	Time	Received by (signed)	Date	Time	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (b)	Field Filtered (b)	Sample Matrix (b)	Should this sample be considered:		Total number of containers	TAT Requested: Normal: <input checked="" type="checkbox"/> Rush: <input type="checkbox"/>	Specify: (Subject to Surcharge)
											Yes, please supply isotopic info.)	(7) Known or possible Hazards			
SS-3 (3-5)	08-14-19	0915	C	N	SO								1		
SS-3 (5-7)	08-14-19	0920	C	N	SO								1		
SS-3-DUP (5-7)	08-14-19	0920	FD	N	SO								1		
SS-4 (0-1)	08-14-19	0950	C	N	SO								1		
SS-4 (1-3)	08-14-19	1000	C	N	SO								1		
SS-4 (3-5)	08-14-19	1010	C	N	SO								1		
SS-4 (5-7)	08-14-19	1020	C	N	SO								1		
SS-6 (0-1)	08-14-19	1125	C	N	SO								1		
SS-6 (1-3)	08-14-19	1140	C	N	SO								1		
SS-6 (3-5)	08-14-19	1155	C	N	SO								1		

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time
<i>Will Dennis-King</i>	8/15/19	1305			

Fax Results: Yes No **E-mail Results**
 Select Deliverable: C of A QC Summary Level 1 Level 2 Level 3 Level 4
 Additional Remarks:
 For Lab Receiving Use Only: Custody Seal Intact? Yes No Cooler Temp: °C
 Sample Collection Time Zone: Eastern Pacific Mountain Other:

1) Chain of Custody Number = Client Determined
 2) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
 3) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered
 4) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, W=Water, ML=Misc Liquid, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal
 5) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1)
 6) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank
 7) **KNOWN OR POSSIBLE HAZARDS**
 Characteristic Hazards: **Listed Waste**
 FL = Flammable/Ignitable LW = Listed Waste
 CO = Corrosive (F, K, P and U-listed wastes)
 RE = Reactive Waste code(s):
RCRA Metals
 As = Arsenic Hg = Mercury
 Ba = Barium Se = Selenium
 Cd = Cadmium Ag = Silver
 Cr = Chromium MR = Misc. RCRA metals
 Pb = Lead
TSCA Regulated
 PCB = Polychlorinated biphenyls

Please provide any additional details below regarding handling and/or disposal concerns, (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

Page: 6 of 7
 Project # 60595649
 GEL Quote #: _____
 COC Number (1): _____
 PO Number: 4500778461 ENV-CONSENT A

GEL Laboratories, LLC
 2040 Savage Road
 Charleston, SC 29407
 Phone: (843) 556-8171
 Fax: (843) 766-1178

GEL Laboratories LLC
 Chemistry | Radiochemistry | Radiobiology | Speciality Analytics
Chain of Custody and Analytical Request
GEL Project Manager:
 Phone # 803.647.1920
 Fax # _____

Client Name: Westinghouse
 Project/Site Name: _____
 Address: 5801 Bluff Road, Hopkins, SC 29061

Collected By: Will Dennis-King
 Send Results To: joynerdp@westinghouse.com

Sample ID
 * For composites - indicate start and stop date/time

Sample ID	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	Radioactive (1) Yes, please supply isotopic info)	Should this sample be considered:	Total number of containers	Sample Analysis Requested (5) (Fill in the number of containers for each test)	Preservative Type (6)	Comments
SS-6 (5-7)	08-14-19	1210	C	N	SO			1	TC-99		Note: extra sample is required for sample specific QC
SS-5 (0-1)	08-14-19	1320	C	N	SO			1			
SS-5 (1-3)	08-14-19	1335	C	N	SO			1			
SS-5 (3-5)	08-14-19	1345	C	N	SO			1			
SS-5 (5-7)	08-14-19	1355	C	N	SO			1			
SP-1	08-14-19	1430	G	N	S			1			
SP-2	08-14-19	1435	G	N	S			1			
SS-2 (0-1)	08-14-19	1525	C	N	SO			1			
SS-2 (1-3)	08-14-19	1540	C	N	SO			1			
SS-2 (3-5)	08-14-19	1555	C	N	SO			1			

Relinquished By (Signed) _____ Date _____ Time _____
 Received by (signed) _____ Date 8/15/19 Time 1305

1) Will Dennis-King 8/15/19 1305
 2) _____
 3) _____

TAT Requested: Normal: Rush: _____ Specify: _____ (Subject to Surcharge)
 Fax Results: Yes No Email
 Select Deliverable: C of A QC Summary Level 1 Level 2 Level 3 Level 4
 Additional Remarks: _____
 For Lab Receiving Use Only: Custody Seal Intact? Yes No Cooler Temp: _____ °C
 Sample Collection Time Zone: Eastern Pacific Central Mountain Other:

> For sample shipping and delivery details, see Sample Receipt & Review form (SRR).

- 1) Chain of Custody Number = Client Determined
- 2) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
- 3) Field Filtered: For liquid matrices, indicate with a Y - for yes the sample was field filtered or - N - for sample was not field filtered
- 4) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, W=Water, ML=Misc Liquid, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal
- 5) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).
- 6) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate. If no preservative is added = leave field blank
- 7) KNOWN OR POSSIBLE HAZARDS

RCRA Metals	Characteristic Hazards	Listed Waste	Other
As = Arsenic Ba = Barium Cd = Cadmium Cr = Chromium Pb = Lead	FL = Flammable/Ignitable CO = Corrosive RE = Reactive	LW = Listed Waste (F, K, P and U-listed wastes) Waste code(s): _____	OT = Other / Unknown (i.e. High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.) Description: _____

Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

GEL Laboratories LLC
 Chemistry | Radiochemistry | Radiobiology | Speciality Analytics
 2040 Savage Road
 Charleston, SC 29407
 Phone: (843) 556-8171
 Fax: (843) 766-1178

Chain of Custody and Analytical Request
 GEL Work Order Number: EMK-11
 GEL Project Manager:

Sample ID <i>* For composites - indicate start and stop date/time</i>	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code ⁽²⁾	Field Filtered ⁽³⁾	Sample Matrix ⁽⁴⁾	Should this sample be considered:		Total number of containers	TAT Requested: Normal: <input checked="" type="checkbox"/> Rush: <input type="checkbox"/> Specify: _____ (Subject to Surcharge)	Preservative Type (6)	Comments
						Yes, please supply isotopic info)	(7) Known or possible Hazards				
SS-2 (5-7)	08-14-19	1605	C	N	SO			1			
SS-2-MS (5-7)	08-14-19	1605	C	N	SO			1			
SS-2-MSD (5-7)	08-14-19	1605	C	N	SO			1			
SS-1 (0-1)	08-15-19	0830	C	N	SO			1			
SS-1 (1-3)	08-15-19	0855	C	N	SO			1			
SS-1 (3-5)	08-15-19	0905	C	N	SO			1			
SS-1 (5-7)	08-15-19	0915	C	N	SO			1			
EB-01-081519	08-15-19	0930	EB	N	W			1			*ATI '62

Relinquished By (Signed) _____ Date _____ Time _____
 Received by (signed) _____ Date 8/15/19 Time 1305
 1 Bill Goff
 2 _____
 3 _____

Chain of Custody Signatures
 TAT Requested: Normal: Rush: Specify: _____ (Subject to Surcharge)
 Fax Results: Yes No Final Results
 Select Deliverable: C of A QC Summary Level 1 Level 2 Level 3 Level 4
 Additional Remarks:
 For Lab Receiving Use Only: Custody Seal Intact? Yes No Cooler Temp: _____ °C
 Sample Collection Time Zone: Eastern Pacific Central Mountain Other:

For sample shipping and delivery details, see Sample Receipt & Review form (SRR).
 1) Chain of Custody Number = Client Determined
 2) QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
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 5) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1).
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 7) **KNOWN OR POSSIBLE HAZARDS**
 Characteristic Hazards: FL = Flammable/ignitable
CO = Corrosive
RE = Reactive
 Listed Waste: LW = Listed Waste
(F,K,P and U-listed wastes.)
 Waste code(s): _____
 Other: _____
 RCRA Metals: _____
 As = Arsenic Hg = Mercury
 Ba = Barium Se = Selenium
 Cd = Cadmium Ag = Silver
 Cr = Chromium MR = Misc. RCRA metals
 Pb = Lead
 TSCA Regulated
 PCB = Polychlorinated biphenyls
 Please provide any additional details below regarding handling and/or disposal concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)

SAMPLE RECEIPT & REVIEW FORM

Client: WNUC	SDG/AR/COC/Work Order: 487768
Received By: SB	Date Received: 8/15/19
Carrier and Tracking Number	Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier Other <p style="text-align: right;">CLIENT</p>

Suspected Hazard Information	Yes	No	* If Net Counts > 100cpm on samples not marked "inactive", contact the Radiation Safety Group for further investigation.
A) Shipped as a DOT Hazardous?			Hazard Class Shipped: _____ UN#: _____ If UN2910, is the Radioactive Shipment Survey Compliant? Yes ___ No ___
B) Did the client designate the samples are to be received as radioactive?			COC notation or radioactive stickers on containers equal client designation.
C) Did the RSO classify the samples as radioactive?			Maximum Net Counts Observed* (Observed Counts - Area Background Counts): <u>0</u> CPM / mR/hr Classified as: Rad 1 Rad 2 Rad 3
D) Did the client designate samples are hazardous?			COC notation or hazard labels on containers equal client designation.
E) Did the RSO identify possible hazards?			If D or E is yes, select Hazards below. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other:

Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (Required for Non-Conforming Items)
1 Shipping containers received intact and sealed?	<input checked="" type="checkbox"/>			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2 Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>			Circle Applicable: Client contacted and provided COC COC created upon receipt
3 Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	<input checked="" type="checkbox"/>			Preservation Method: Wet Ice Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: <u>1c</u>
4 Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>			Temperature Device Serial #: <u>TR1-19</u> Secondary Temperature Device Serial # (If Applicable):
5 Sample containers intact and sealed?	<input checked="" type="checkbox"/>			Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6 Samples requiring chemical preservation at proper pH?	<input checked="" type="checkbox"/>			Sample ID's and Containers Affected: If Preservation added, Lot#:
7 Do any samples require Volatile Analysis?	<input checked="" type="checkbox"/>			If Yes, are Encores or Soil Kits present for solids? Yes ___ No ___ NA ___ (If yes, take to VOA Freezer)
				Do liquid VOA vials contain acid preservation? Yes ___ No ___ NA ___ (If unknown, select No)
				Are liquid VOA vials free of headspace? Yes ___ No ___ NA ___ Sample ID's and containers affected:
8 Samples received within holding time?	<input checked="" type="checkbox"/>			ID's and tests affected:
9 Sample ID's on COC match ID's on bottles?	<input checked="" type="checkbox"/>			ID's and containers affected:
10 Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>			Circle Applicable: No dates on containers No times on containers COC missing info Other (describe)
11 Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/>			Circle Applicable: No container count on COC Other (describe)
12 Are sample containers identifiable as GEL provided?	<input checked="" type="checkbox"/>			
13 COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>			Circle Applicable: Not relinquished Other (describe)

Comments (Use Continuation Form if needed):

List of current GEL Certifications as of 13 September 2019

State	Certification
Alaska	17-018
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana Drinking Water	LA024
Louisiana NELAP	03046 (AI33904)
Maine	2019020
Maryland	270
Massachusetts	M-SC012
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122020-1
New Hampshire NELAP	2054
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	2019-013
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-19-15
Utah NELAP	SC000122019-28
Vermont	VT87156
Virginia NELAP	460202
Washington	C780



Report of Analysis

Westinghouse Electric Company
5801 Bluff Rd.
Hopkins, SC 29061
Attention: Diana Joyner

Project Name: CVOC

Lot Number: **WF01013**

Date Completed: 06/09/2021

06/10/2021 10:09 AM
Approved and released by:
Project Manager I: **Blaire M. Gagne**



The electronic signature above is the equivalent of a handwritten signature.
This report shall not be reproduced, except in its entirety, without the written approval of Pace Analytical Services, LLC.

PACE ANALYTICAL SERVICES, LLC

SC DHEC No: 32010001

NELAC No: E87653

NC DENR No: 329

NC Field Parameters No: 5639

Case Narrative Westinghouse Electric Company Lot Number: WF01013

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved The NELAC Institute (TNI) standards, the Pace Analytical Services, LLC ("Pace") Laboratory Quality Manual, standard operating procedures (SOPs), and Pace policies. Any exceptions to the TNI standards, the Laboratory Quality Manual, SOPs or policies are qualified on the results page or discussed below.

Where applicable, all soil sample results (including LOQ and DL if requested) are corrected for dry weight unless flagged with a "W" qualifier.

If you have any questions regarding this report please contact the Pace Project Manager listed on the cover page.

Volatile Organic Analysis- Method 8260D

Matrix spike/matrix spike duplicate was not performed for batch 94841 due to insufficient volume. An LCS/LCSD was run instead.

PACE ANALYTICAL SERVICES, LLC

Sample Summary
Westinghouse Electric Company
Lot Number: WF01013
Project Name: CVOC
Project Number:

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	SS-17-3-4	Solid	05/29/2021 1005	06/01/2021
002	SS-17-7-8	Solid	05/29/2021 1015	06/01/2021
003	SS-18-2-3	Solid	05/29/2021 1030	06/01/2021
004	SS-18-7-8	Solid	05/29/2021 1040	06/01/2021
005	SS-19-6-7	Solid	05/29/2021 1050	06/01/2021
006	SS-19-7-8	Solid	05/29/2021 1100	06/01/2021
007	SS-21-1-2	Solid	05/29/2021 1115	06/01/2021
008	SS-21-7-8	Solid	05/29/2021 1125	06/01/2021
009	SS-20-7-8	Solid	05/29/2021 1135	06/01/2021
010	SS-20-1-2	Solid	05/29/2021 1145	06/01/2021
011	SS-22-6-7	Solid	05/29/2021 1215	06/01/2021
012	SS-22-7-8	Solid	05/29/2021 1225	06/01/2021
013	SS-22-7-8 DUP	Solid	05/29/2021 1225	06/01/2021
014	SS-23-6-7	Solid	05/29/2021 1240	06/01/2021
015	SS-23-7-8	Solid	05/29/2021 1250	06/01/2021
016	SS-24-3-4	Solid	05/29/2021 1300	06/01/2021
017	EB-01-052921	Aqueous	05/29/2021 1315	06/01/2021
018	SS-24-7-8	Solid	05/29/2021 1330	06/01/2021
019	SS-25-5-6	Solid	05/29/2021 1345	06/01/2021
020	SS-25-7-8	Solid	05/29/2021 1355	06/01/2021
021	SS-26-3-4	Solid	05/29/2021 1405	06/01/2021
022	SS-26-7-8	Solid	05/29/2021 1420	06/01/2021
023	SS-27-1-2	Solid	05/29/2021 1435	06/01/2021
024	SS-27-7-8	Solid	05/29/2021 1445	06/01/2021
025	SS-27-7-8 Dup	Solid	05/29/2021 1445	06/01/2021
026	SS-28-1-2	Solid	05/29/2021 1545	06/01/2021
027	SS-28-7-8	Solid	05/29/2021 1555	06/01/2021
028	SS-29-4-5	Solid	05/29/2021 1620	06/01/2021
029	SS-29-7-8	Solid	05/29/2021 1635	06/01/2021
030	TB-01-052921	Aqueous	05/29/2021 1020	06/01/2021
031	TB-02-052921	Aqueous	05/29/2021 1340	06/01/2021
032	EB-02-052921	Aqueous	05/29/2021 1555	06/01/2021

(32 samples)

PACE ANALYTICAL SERVICES, LLC

Detection Summary
Westinghouse Electric Company
Lot Number: WF01013
Project Name: CVOC
Project Number:

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
007	SS-21-1-2	Solid	Tetrachloroethene	8260D	5.8		ug/kg	12
010	SS-20-1-2	Solid	Tetrachloroethene	8260D	21		ug/kg	15
010	SS-20-1-2	Solid	Trichloroethene	8260D	17		ug/kg	15
023	SS-27-1-2	Solid	cis-1,2-Dichloroethene	8260D	11		ug/kg	28
023	SS-27-1-2	Solid	Trichloroethene	8260D	8.1		ug/kg	28
026	SS-28-1-2	Solid	Tetrachloroethene	8260D	9.3		ug/kg	31
026	SS-28-1-2	Solid	Trichloroethene	8260D	12		ug/kg	31

(7 detections)

Volatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company	Laboratory ID: WF01013-001
Description: SS-17-3-4	Matrix: Solid
Date Sampled: 05/29/2021 1005	Project Name: CVOC
Date Received: 06/01/2021	% Solids: 92.0 06/02/2021 0028
Project Number:	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/03/2021 1352	JM1		94223	5.43

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,2-Dichloroethane	107-06-2	8260D	ND		5.0	ug/kg	1
1,1-Dichloroethene	75-35-4	8260D	ND		5.0	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		5.0	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		5.0	ug/kg	1
Tetrachloroethene	127-18-4	8260D	ND		5.0	ug/kg	1
Trichloroethene	79-01-6	8260D	ND		5.0	ug/kg	1
Vinyl chloride	75-01-4	8260D	ND		5.0	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		102	47-138
1,2-Dichloroethane-d4		94	53-142
Toluene-d8		102	68-124

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range Q = Surrogate failure
 ND = Not detected at or above the LOQ N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)
 106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

Volatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company	Laboratory ID: WF01013-002
Description: SS-17-7-8	Matrix: Solid
Date Sampled: 05/29/2021 1015	Project Name: CVOC
Date Received: 06/01/2021	% Solids: 88.4 06/02/2021 0028
Project Number:	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/03/2021 1304	JM1		94223	6.09

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,2-Dichloroethane	107-06-2	8260D	ND		4.6	ug/kg	1
1,1-Dichloroethene	75-35-4	8260D	ND		4.6	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		4.6	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		4.6	ug/kg	1
Tetrachloroethene	127-18-4	8260D	ND		4.6	ug/kg	1
Trichloroethene	79-01-6	8260D	ND		4.6	ug/kg	1
Vinyl chloride	75-01-4	8260D	ND		4.6	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		98	47-138
1,2-Dichloroethane-d4		87	53-142
Toluene-d8		101	68-124

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range Q = Surrogate failure
 ND = Not detected at or above the LOQ N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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Volatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company	Laboratory ID: WF01013-003
Description: SS-18-2-3	Matrix: Solid
Date Sampled: 05/29/2021 1030	Project Name: CVOC
Date Received: 06/01/2021	% Solids: 91.5 06/02/2021 0028
Project Number:	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/03/2021 1415	JM1		94223	6.21

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,2-Dichloroethane	107-06-2	8260D	ND		4.4	ug/kg	1
1,1-Dichloroethene	75-35-4	8260D	ND		4.4	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		4.4	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		4.4	ug/kg	1
Tetrachloroethene	127-18-4	8260D	ND		4.4	ug/kg	1
Trichloroethene	79-01-6	8260D	ND		4.4	ug/kg	1
Vinyl chloride	75-01-4	8260D	ND		4.4	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		102	47-138
1,2-Dichloroethane-d4		92	53-142
Toluene-d8		102	68-124

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range Q = Surrogate failure
 ND = Not detected at or above the LOQ N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)
 106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

Volatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company	Laboratory ID: WF01013-004
Description: SS-18-7-8	Matrix: Solid
Date Sampled: 05/29/2021 1040	Project Name: CVOC
Date Received: 06/01/2021	% Solids: 90.8 06/02/2021 0028
Project Number:	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/03/2021 1437	JM1		94223	5.36

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,2-Dichloroethane	107-06-2	8260D	ND		5.1	ug/kg	1
1,1-Dichloroethene	75-35-4	8260D	ND		5.1	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		5.1	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		5.1	ug/kg	1
Tetrachloroethene	127-18-4	8260D	ND		5.1	ug/kg	1
Trichloroethene	79-01-6	8260D	ND		5.1	ug/kg	1
Vinyl chloride	75-01-4	8260D	ND		5.1	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		104	47-138
1,2-Dichloroethane-d4		97	53-142
Toluene-d8		100	68-124

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range Q = Surrogate failure
 ND = Not detected at or above the LOQ N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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Volatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company	Laboratory ID: WF01013-005
Description: SS-19-6-7	Matrix: Solid
Date Sampled: 05/29/2021 1050	Project Name: CVOC
Date Received: 06/01/2021	Project Number:
	% Solids: 91.4 06/02/2021 0028

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/03/2021 1503	JM1		94223	6.20

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,2-Dichloroethane	107-06-2	8260D	ND		4.4	ug/kg	1
1,1-Dichloroethene	75-35-4	8260D	ND		4.4	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		4.4	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		4.4	ug/kg	1
Tetrachloroethene	127-18-4	8260D	ND		4.4	ug/kg	1
Trichloroethene	79-01-6	8260D	ND		4.4	ug/kg	1
Vinyl chloride	75-01-4	8260D	ND		4.4	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		100	47-138
1,2-Dichloroethane-d4		92	53-142
Toluene-d8		103	68-124

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range Q = Surrogate failure
 ND = Not detected at or above the LOQ N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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Volatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company	Laboratory ID: WF01013-006
Description: SS-19-7-8	Matrix: Solid
Date Sampled: 05/29/2021 1100	Project Name: CVOC
Date Received: 06/01/2021	% Solids: 87.2 06/02/2021 0028
Project Number:	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/03/2021 1526	JM1		94223	5.87

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,2-Dichloroethane	107-06-2	8260D	ND		4.9	ug/kg	1
1,1-Dichloroethene	75-35-4	8260D	ND		4.9	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		4.9	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		4.9	ug/kg	1
Tetrachloroethene	127-18-4	8260D	ND		4.9	ug/kg	1
Trichloroethene	79-01-6	8260D	ND		4.9	ug/kg	1
Vinyl chloride	75-01-4	8260D	ND		4.9	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		103	47-138
1,2-Dichloroethane-d4		93	53-142
Toluene-d8		103	68-124

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range Q = Surrogate failure
 ND = Not detected at or above the LOQ N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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Volatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company	Laboratory ID: WF01013-007
Description: SS-21-1-2	Matrix: Solid
Date Sampled: 05/29/2021 1115	Project Name: CVOC
Date Received: 06/01/2021	% Solids: 90.8 06/02/2021 0028
Project Number:	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/03/2021 1549	JM1		94223	6.01

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,2-Dichloroethane	107-06-2	8260D	ND		4.6	ug/kg	1
1,1-Dichloroethene	75-35-4	8260D	ND		4.6	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		4.6	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		4.6	ug/kg	1
Tetrachloroethene	127-18-4	8260D	5.8		4.6	ug/kg	1
Trichloroethene	79-01-6	8260D	ND		4.6	ug/kg	1
Vinyl chloride	75-01-4	8260D	ND		4.6	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		100	47-138
1,2-Dichloroethane-d4		91	53-142
Toluene-d8		105	68-124

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range Q = Surrogate failure
 ND = Not detected at or above the LOQ N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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Volatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company	Laboratory ID: WF01013-008
Description: SS-21-7-8	Matrix: Solid
Date Sampled: 05/29/2021 1125	Project Name: CVOC
Date Received: 06/01/2021	% Solids: 88.9 06/02/2021 0028
Project Number:	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/03/2021 1611	JM1		94223	5.53

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,2-Dichloroethane	107-06-2	8260D	ND		5.1	ug/kg	1
1,1-Dichloroethene	75-35-4	8260D	ND		5.1	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		5.1	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		5.1	ug/kg	1
Tetrachloroethene	127-18-4	8260D	ND		5.1	ug/kg	1
Trichloroethene	79-01-6	8260D	ND		5.1	ug/kg	1
Vinyl chloride	75-01-4	8260D	ND		5.1	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		102	47-138
1,2-Dichloroethane-d4		95	53-142
Toluene-d8		102	68-124

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range Q = Surrogate failure
 ND = Not detected at or above the LOQ N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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Volatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company	Laboratory ID: WF01013-009
Description: SS-20-7-8	Matrix: Solid
Date Sampled: 05/29/2021 1135	Project Name: CVOC
Date Received: 06/01/2021	% Solids: 86.5 06/02/2021 0028
Project Number:	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/03/2021 1633	JM1		94223	5.79

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,2-Dichloroethane	107-06-2	8260D	ND		5.0	ug/kg	1
1,1-Dichloroethene	75-35-4	8260D	ND		5.0	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		5.0	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		5.0	ug/kg	1
Tetrachloroethene	127-18-4	8260D	ND		5.0	ug/kg	1
Trichloroethene	79-01-6	8260D	ND		5.0	ug/kg	1
Vinyl chloride	75-01-4	8260D	ND		5.0	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		102	47-138
1,2-Dichloroethane-d4		95	53-142
Toluene-d8		102	68-124

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range Q = Surrogate failure
 ND = Not detected at or above the LOQ N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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Volatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company	Laboratory ID: WF01013-010
Description: SS-20-1-2	Matrix: Solid
Date Sampled: 05/29/2021 1145	Project Name: CVOC
Date Received: 06/01/2021	% Solids: 89.9 06/02/2021 0028
Project Number:	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/03/2021 1656	JM1		94223	6.45

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,2-Dichloroethane	107-06-2	8260D	ND		4.3	ug/kg	1
1,1-Dichloroethene	75-35-4	8260D	ND		4.3	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		4.3	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		4.3	ug/kg	1
Tetrachloroethene	127-18-4	8260D	21		4.3	ug/kg	1
Trichloroethene	79-01-6	8260D	17		4.3	ug/kg	1
Vinyl chloride	75-01-4	8260D	ND		4.3	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		100	47-138
1,2-Dichloroethane-d4		92	53-142
Toluene-d8		103	68-124

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range Q = Surrogate failure
 ND = Not detected at or above the LOQ N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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Volatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company	Laboratory ID: WF01013-011
Description: SS-22-6-7	Matrix: Solid
Date Sampled: 05/29/2021 1215	Project Name: CVOC
Date Received: 06/01/2021	% Solids: 89.2 06/02/2021 0028
Project Number:	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/03/2021 1719	JM1		94223	5.43

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,2-Dichloroethane	107-06-2	8260D	ND		5.2	ug/kg	1
1,1-Dichloroethene	75-35-4	8260D	ND		5.2	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		5.2	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		5.2	ug/kg	1
Tetrachloroethene	127-18-4	8260D	ND		5.2	ug/kg	1
Trichloroethene	79-01-6	8260D	ND		5.2	ug/kg	1
Vinyl chloride	75-01-4	8260D	ND		5.2	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		103	47-138
1,2-Dichloroethane-d4		95	53-142
Toluene-d8		103	68-124

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range Q = Surrogate failure
 ND = Not detected at or above the LOQ N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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Volatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company	Laboratory ID: WF01013-012
Description: SS-22-7-8	Matrix: Solid
Date Sampled: 05/29/2021 1225	Project Name: CVOC
Date Received: 06/01/2021	% Solids: 88.8 06/02/2021 0028
Project Number:	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/03/2021 1742	JM1		94223	5.87

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,2-Dichloroethane	107-06-2	8260D	ND		4.8	ug/kg	1
1,1-Dichloroethene	75-35-4	8260D	ND		4.8	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		4.8	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		4.8	ug/kg	1
Tetrachloroethene	127-18-4	8260D	ND		4.8	ug/kg	1
Trichloroethene	79-01-6	8260D	ND		4.8	ug/kg	1
Vinyl chloride	75-01-4	8260D	ND		4.8	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		102	47-138
1,2-Dichloroethane-d4		94	53-142
Toluene-d8		102	68-124

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range Q = Surrogate failure
 ND = Not detected at or above the LOQ N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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Volatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company	Laboratory ID: WF01013-013
Description: SS-22-7-8 DUP	Matrix: Solid
Date Sampled: 05/29/2021 1225	Project Name: CVOC
Date Received: 06/01/2021	% Solids: 87.4 06/02/2021 0028
Project Number:	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/03/2021 1805	JM1		94223	5.97

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,2-Dichloroethane	107-06-2	8260D	ND		4.8	ug/kg	1
1,1-Dichloroethene	75-35-4	8260D	ND		4.8	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		4.8	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		4.8	ug/kg	1
Tetrachloroethene	127-18-4	8260D	ND		4.8	ug/kg	1
Trichloroethene	79-01-6	8260D	ND		4.8	ug/kg	1
Vinyl chloride	75-01-4	8260D	ND		4.8	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		103	47-138
1,2-Dichloroethane-d4		95	53-142
Toluene-d8		102	68-124

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range Q = Surrogate failure
 ND = Not detected at or above the LOQ N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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Volatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company	Laboratory ID: WF01013-014
Description: SS-23-6-7	Matrix: Solid
Date Sampled: 05/29/2021 1240	Project Name: CVOC
Date Received: 06/01/2021	% Solids: 87.3 06/02/2021 0028
Project Number:	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/03/2021 1828	JM1		94223	5.86

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,2-Dichloroethane	107-06-2	8260D	ND		4.9	ug/kg	1
1,1-Dichloroethene	75-35-4	8260D	ND		4.9	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		4.9	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		4.9	ug/kg	1
Tetrachloroethene	127-18-4	8260D	ND		4.9	ug/kg	1
Trichloroethene	79-01-6	8260D	ND		4.9	ug/kg	1
Vinyl chloride	75-01-4	8260D	ND		4.9	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		101	47-138
1,2-Dichloroethane-d4		91	53-142
Toluene-d8		101	68-124

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range Q = Surrogate failure
 ND = Not detected at or above the LOQ N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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Volatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company	Laboratory ID: WF01013-015
Description: SS-23-7-8	Matrix: Solid
Date Sampled: 05/29/2021 1250	Project Name: CVOC
Date Received: 06/01/2021	% Solids: 87.7 06/02/2021 0028
Project Number:	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/04/2021 1234	JM1		94375	6.10

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,2-Dichloroethane	107-06-2	8260D	ND		4.7	ug/kg	1
1,1-Dichloroethene	75-35-4	8260D	ND		4.7	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		4.7	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		4.7	ug/kg	1
Tetrachloroethene	127-18-4	8260D	ND		4.7	ug/kg	1
Trichloroethene	79-01-6	8260D	ND		4.7	ug/kg	1
Vinyl chloride	75-01-4	8260D	ND		4.7	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		101	47-138
1,2-Dichloroethane-d4		94	53-142
Toluene-d8		104	68-124

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range Q = Surrogate failure
 ND = Not detected at or above the LOQ N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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Volatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company	Laboratory ID: WF01013-016
Description: SS-24-3-4	Matrix: Solid
Date Sampled: 05/29/2021 1300	Project Name: CVOC
Date Received: 06/01/2021	% Solids: 85.2 06/02/2021 0028
Project Number:	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/04/2021 1256	JM1		94375	6.33

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,2-Dichloroethane	107-06-2	8260D	ND		4.6	ug/kg	1
1,1-Dichloroethene	75-35-4	8260D	ND		4.6	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		4.6	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		4.6	ug/kg	1
Tetrachloroethene	127-18-4	8260D	ND		4.6	ug/kg	1
Trichloroethene	79-01-6	8260D	ND		4.6	ug/kg	1
Vinyl chloride	75-01-4	8260D	ND		4.6	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		102	47-138
1,2-Dichloroethane-d4		94	53-142
Toluene-d8		104	68-124

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range Q = Surrogate failure
 ND = Not detected at or above the LOQ N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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Volatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company	Laboratory ID: WF01013-017
Description: EB-01-052921	Matrix: Aqueous
Date Sampled: 05/29/2021 1315	Project Name: CVOC
Date Received: 06/01/2021	Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	06/09/2021 0159	CJL2		94841

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260D	ND		1.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		1.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		1.0	ug/L	1
Tetrachloroethene	127-18-4	8260D	ND		1.0	ug/L	1
Trichloroethene	79-01-6	8260D	ND		1.0	ug/L	1
Vinyl chloride	75-01-4	8260D	ND		1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		101	70-130
1,2-Dichloroethane-d4		87	70-130
Toluene-d8		92	70-130

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range Q = Surrogate failure
 ND = Not detected at or above the LOQ N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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Volatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company	Laboratory ID: WF01013-018
Description: SS-24-7-8	Matrix: Solid
Date Sampled: 05/29/2021 1330	Project Name: CVOC
Date Received: 06/01/2021	% Solids: 86.3 06/02/2021 0028
Project Number:	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/04/2021 1319	JM1		94375	5.99

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,2-Dichloroethane	107-06-2	8260D	ND		4.8	ug/kg	1
1,1-Dichloroethene	75-35-4	8260D	ND		4.8	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		4.8	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		4.8	ug/kg	1
Tetrachloroethene	127-18-4	8260D	ND		4.8	ug/kg	1
Trichloroethene	79-01-6	8260D	ND		4.8	ug/kg	1
Vinyl chloride	75-01-4	8260D	ND		4.8	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		104	47-138
1,2-Dichloroethane-d4		97	53-142
Toluene-d8		105	68-124

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range Q = Surrogate failure
 ND = Not detected at or above the LOQ N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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Volatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company	Laboratory ID: WF01013-019
Description: SS-25-5-6	Matrix: Solid
Date Sampled: 05/29/2021 1345	Project Name: CVOC
Date Received: 06/01/2021	% Solids: 87.8 06/02/2021 0028
Project Number:	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/04/2021 1341	JM1		94375	5.95

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,2-Dichloroethane	107-06-2	8260D	ND		4.8	ug/kg	1
1,1-Dichloroethene	75-35-4	8260D	ND		4.8	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		4.8	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		4.8	ug/kg	1
Tetrachloroethene	127-18-4	8260D	ND		4.8	ug/kg	1
Trichloroethene	79-01-6	8260D	ND		4.8	ug/kg	1
Vinyl chloride	75-01-4	8260D	ND		4.8	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		101	47-138
1,2-Dichloroethane-d4		95	53-142
Toluene-d8		102	68-124

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range Q = Surrogate failure
 ND = Not detected at or above the LOQ N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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Volatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company	Laboratory ID: WF01013-020
Description: SS-25-7-8	Matrix: Solid
Date Sampled: 05/29/2021 1355	Project Name: CVOC
Date Received: 06/01/2021	% Solids: 88.6 06/02/2021 0028
Project Number:	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/04/2021 1404	JM1		94375	5.84

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,2-Dichloroethane	107-06-2	8260D	ND		4.8	ug/kg	1
1,1-Dichloroethene	75-35-4	8260D	ND		4.8	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		4.8	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		4.8	ug/kg	1
Tetrachloroethene	127-18-4	8260D	ND		4.8	ug/kg	1
Trichloroethene	79-01-6	8260D	ND		4.8	ug/kg	1
Vinyl chloride	75-01-4	8260D	ND		4.8	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		102	47-138
1,2-Dichloroethane-d4		94	53-142
Toluene-d8		101	68-124

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range Q = Surrogate failure
 ND = Not detected at or above the LOQ N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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Volatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company	Laboratory ID: WF01013-021
Description: SS-26-3-4	Matrix: Solid
Date Sampled: 05/29/2021 1405	Project Name: CVOC
Date Received: 06/01/2021	% Solids: 88.2 06/02/2021 0028
Project Number:	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/04/2021 1427	JM1		94375	6.03

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,2-Dichloroethane	107-06-2	8260D	ND		4.7	ug/kg	1
1,1-Dichloroethene	75-35-4	8260D	ND		4.7	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		4.7	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		4.7	ug/kg	1
Tetrachloroethene	127-18-4	8260D	ND		4.7	ug/kg	1
Trichloroethene	79-01-6	8260D	ND		4.7	ug/kg	1
Vinyl chloride	75-01-4	8260D	ND		4.7	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		102	47-138
1,2-Dichloroethane-d4		95	53-142
Toluene-d8		100	68-124

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range Q = Surrogate failure
 ND = Not detected at or above the LOQ N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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Volatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company	Laboratory ID: WF01013-022
Description: SS-26-7-8	Matrix: Solid
Date Sampled: 05/29/2021 1420	Project Name: CVOC
Date Received: 06/01/2021	% Solids: 84.5 06/02/2021 0028
Project Number:	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/04/2021 1450	JM1		94375	6.13

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,2-Dichloroethane	107-06-2	8260D	ND		4.8	ug/kg	1
1,1-Dichloroethene	75-35-4	8260D	ND		4.8	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		4.8	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		4.8	ug/kg	1
Tetrachloroethene	127-18-4	8260D	ND		4.8	ug/kg	1
Trichloroethene	79-01-6	8260D	ND		4.8	ug/kg	1
Vinyl chloride	75-01-4	8260D	ND		4.8	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		102	47-138
1,2-Dichloroethane-d4		95	53-142
Toluene-d8		101	68-124

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range Q = Surrogate failure
 ND = Not detected at or above the LOQ N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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Volatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company	Laboratory ID: WF01013-023
Description: SS-27-1-2	Matrix: Solid
Date Sampled: 05/29/2021 1435	Project Name: CVOC
Date Received: 06/01/2021	% Solids: 88.8 06/02/2021 0028
Project Number:	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/04/2021 1513	JM1		94375	6.53

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,2-Dichloroethane	107-06-2	8260D	ND		4.3	ug/kg	1
1,1-Dichloroethene	75-35-4	8260D	ND		4.3	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	11		4.3	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		4.3	ug/kg	1
Tetrachloroethene	127-18-4	8260D	ND		4.3	ug/kg	1
Trichloroethene	79-01-6	8260D	8.1		4.3	ug/kg	1
Vinyl chloride	75-01-4	8260D	ND		4.3	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		100	47-138
1,2-Dichloroethane-d4		92	53-142
Toluene-d8		103	68-124

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range Q = Surrogate failure
 ND = Not detected at or above the LOQ N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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Volatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company	Laboratory ID: WF01013-024
Description: SS-27-7-8	Matrix: Solid
Date Sampled: 05/29/2021 1445	Project Name: CVOC
Date Received: 06/01/2021	% Solids: 84.7 06/02/2021 0028
Project Number:	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/04/2021 1536	JM1		94375	6.43

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,2-Dichloroethane	107-06-2	8260D	ND		4.6	ug/kg	1
1,1-Dichloroethene	75-35-4	8260D	ND		4.6	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		4.6	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		4.6	ug/kg	1
Tetrachloroethene	127-18-4	8260D	ND		4.6	ug/kg	1
Trichloroethene	79-01-6	8260D	ND		4.6	ug/kg	1
Vinyl chloride	75-01-4	8260D	ND		4.6	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		100	47-138
1,2-Dichloroethane-d4		92	53-142
Toluene-d8		100	68-124

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range Q = Surrogate failure
 ND = Not detected at or above the LOQ N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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Volatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company	Laboratory ID: WF01013-025
Description: SS-27-7-8 Dup	Matrix: Solid
Date Sampled: 05/29/2021 1445	Project Name: CVOC
Date Received: 06/01/2021	% Solids: 81.9 06/02/2021 0028
Project Number:	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/04/2021 1558	JM1		94375	6.12

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,2-Dichloroethane	107-06-2	8260D	ND		5.0	ug/kg	1
1,1-Dichloroethene	75-35-4	8260D	ND		5.0	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		5.0	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		5.0	ug/kg	1
Tetrachloroethene	127-18-4	8260D	ND		5.0	ug/kg	1
Trichloroethene	79-01-6	8260D	ND		5.0	ug/kg	1
Vinyl chloride	75-01-4	8260D	ND		5.0	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		101	47-138
1,2-Dichloroethane-d4		93	53-142
Toluene-d8		100	68-124

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range Q = Surrogate failure
 ND = Not detected at or above the LOQ N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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Volatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company	Laboratory ID: WF01013-026
Description: SS-28-1-2	Matrix: Solid
Date Sampled: 05/29/2021 1545	Project Name: CVOC
Date Received: 06/01/2021	% Solids: 82.8 06/02/2021 0028
Project Number:	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/04/2021 1621	JM1		94375	6.47

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,2-Dichloroethane	107-06-2	8260D	ND		4.7	ug/kg	1
1,1-Dichloroethene	75-35-4	8260D	ND		4.7	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		4.7	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		4.7	ug/kg	1
Tetrachloroethene	127-18-4	8260D	9.3		4.7	ug/kg	1
Trichloroethene	79-01-6	8260D	12		4.7	ug/kg	1
Vinyl chloride	75-01-4	8260D	ND		4.7	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		101	47-138
1,2-Dichloroethane-d4		92	53-142
Toluene-d8		104	68-124

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range Q = Surrogate failure
 ND = Not detected at or above the LOQ N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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Volatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company	Laboratory ID: WF01013-027
Description: SS-28-7-8	Matrix: Solid
Date Sampled: 05/29/2021 1555	Project Name: CVOC
Date Received: 06/01/2021	% Solids: 78.6 06/02/2021 0028
Project Number:	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/04/2021 1710	JM1		94375	6.54

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,2-Dichloroethane	107-06-2	8260D	ND		4.9	ug/kg	1
1,1-Dichloroethene	75-35-4	8260D	ND		4.9	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		4.9	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		4.9	ug/kg	1
Tetrachloroethene	127-18-4	8260D	ND		4.9	ug/kg	1
Trichloroethene	79-01-6	8260D	ND		4.9	ug/kg	1
Vinyl chloride	75-01-4	8260D	ND		4.9	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		98	47-138
1,2-Dichloroethane-d4		90	53-142
Toluene-d8		100	68-124

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range Q = Surrogate failure
 ND = Not detected at or above the LOQ N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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Volatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company	Laboratory ID: WF01013-028
Description: SS-29-4-5	Matrix: Solid
Date Sampled: 05/29/2021 1620	Project Name: CVOC
Date Received: 06/01/2021	% Solids: 90.9 06/02/2021 0028
Project Number:	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/04/2021 1733	JM1		94375	6.20

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,2-Dichloroethane	107-06-2	8260D	ND		4.4	ug/kg	1
1,1-Dichloroethene	75-35-4	8260D	ND		4.4	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		4.4	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		4.4	ug/kg	1
Tetrachloroethene	127-18-4	8260D	ND		4.4	ug/kg	1
Trichloroethene	79-01-6	8260D	ND		4.4	ug/kg	1
Vinyl chloride	75-01-4	8260D	ND		4.4	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		104	47-138
1,2-Dichloroethane-d4		97	53-142
Toluene-d8		102	68-124

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range Q = Surrogate failure
 ND = Not detected at or above the LOQ N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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Volatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company	Laboratory ID: WF01013-029
Description: SS-29-7-8	Matrix: Solid
Date Sampled: 05/29/2021 1635	Project Name: CVOC
Date Received: 06/01/2021	Project Number:
	% Solids: 85.6 06/02/2021 0028

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260D	1	06/04/2021 1815	JM1		94375	6.67

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,2-Dichloroethane	107-06-2	8260D	ND		4.4	ug/kg	1
1,1-Dichloroethene	75-35-4	8260D	ND		4.4	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		4.4	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		4.4	ug/kg	1
Tetrachloroethene	127-18-4	8260D	ND		4.4	ug/kg	1
Trichloroethene	79-01-6	8260D	ND		4.4	ug/kg	1
Vinyl chloride	75-01-4	8260D	ND		4.4	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		101	47-138
1,2-Dichloroethane-d4		94	53-142
Toluene-d8		102	68-124

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range Q = Surrogate failure
 ND = Not detected at or above the LOQ N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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Volatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company	Laboratory ID: WF01013-030
Description: TB-01-052921	Matrix: Aqueous
Date Sampled: 05/29/2021 1020	Project Name: CVOC
Date Received: 06/01/2021	Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	06/09/2021 0224	CJL2		94841

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260D	ND		1.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		1.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		1.0	ug/L	1
Tetrachloroethene	127-18-4	8260D	ND		1.0	ug/L	1
Trichloroethene	79-01-6	8260D	ND		1.0	ug/L	1
Vinyl chloride	75-01-4	8260D	ND		1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		97	70-130
1,2-Dichloroethane-d4		87	70-130
Toluene-d8		91	70-130

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range Q = Surrogate failure
 ND = Not detected at or above the LOQ N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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Volatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company	Laboratory ID: WF01013-031
Description: TB-02-052921	Matrix: Aqueous
Date Sampled: 05/29/2021 1340	Project Name: CVOC
Date Received: 06/01/2021	Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	06/09/2021 0249	CJL2		94841

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260D	ND		1.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		1.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		1.0	ug/L	1
Tetrachloroethene	127-18-4	8260D	ND		1.0	ug/L	1
Trichloroethene	79-01-6	8260D	ND		1.0	ug/L	1
Vinyl chloride	75-01-4	8260D	ND		1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		95	70-130
1,2-Dichloroethane-d4		86	70-130
Toluene-d8		91	70-130

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range Q = Surrogate failure
 ND = Not detected at or above the LOQ N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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Volatile Organic Compounds by GC/MS

Client: Westinghouse Electric Company	Laboratory ID: WF01013-032
Description: EB-02-052921	Matrix: Aqueous
Date Sampled: 05/29/2021 1555	Project Name: CVOC
Date Received: 06/01/2021	Project Number:

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	06/09/2021 0314	CJL2		94841

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,2-Dichloroethane	107-06-2	8260D	ND		1.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260D	ND		1.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		1.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		1.0	ug/L	1
Tetrachloroethene	127-18-4	8260D	ND		1.0	ug/L	1
Trichloroethene	79-01-6	8260D	ND		1.0	ug/L	1
Vinyl chloride	75-01-4	8260D	ND		1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Bromofluorobenzene		97	70-130
1,2-Dichloroethane-d4		85	70-130
Toluene-d8		91	70-130

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range Q = Surrogate failure
 ND = Not detected at or above the LOQ N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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**Chain of Custody
and
Miscellaneous Documents**



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Number 121686

Client: <u>Westinghouse</u>		Telephone No. / E-mail: <u>Westinghouse</u>		Quote No.					
Address: <u>5001 Clark Rd</u>		Analysis (Attach list if more space is needed)		Page <u>1</u> of <u>4</u>					
City: <u>Hopkins</u>		Sampler's Signature: <u>Charles K. Schubert</u>		 WF01013 eMail: _____ Remarks / Collector I.D.: _____					
Project Name: <u>R.F. Phase II</u>		Printer Name: <u>Charles K. Schubert</u>							
Project No.	Sample ID / Description (Containers for each sample may be combined on one line.)	Collection Time (Military)	Matrix					No. of Containers by Preservative type	CC Requirements (Specify)
			Ascorbic Acid	Boric Acid	EDTA	HNO ₃	H ₂ O ₂		
	SS-17-3-4	5/21/21 10:55	X				5		
	SS-17-7-B	5/24/21 10:15	X				5		
	SS-18-2-3	5/24/21 10:30	X				5		
	SS-18-7-B	5/24/21 10:40	X				5		
	SS-19-6-7	5/24/21 10:50	X				5		
	SS-19-7-B	5/24/21 11:00	X				5		
	SS-21-1-2	5/24/21 11:15	X				5		
	SS-21-7-B	5/24/21 11:25	X				5		
	SS-20-7-B	5/24/21 11:35	X				5		
	SS-20-1-2	5/24/21 11:45	X				5		
Turn Around Time Required (Prior lab approval required for expedited TAT):		Sample Disposal		Possible Hazard Identification					
<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush (Specify)		<input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Dispose by Lab		<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison <input type="checkbox"/> Unknown					
1. Refinquired by <u>Charles K. Schubert</u>		Date	Time	1. Received by		Date	Time		
		6/1/21	10:15						
2. Refinquired by		Date	Time	2. Received by		Date	Time		
3. Refinquired by		Date	Time	3. Received by		Date	Time		
4. Refinquired by		Date	Time	4. Laboratory received by		Date	Time		
				<u>JMA Jaramila</u>		<u>6/1/21</u>	<u>10:15</u>		
Note: All samples are retained for four weeks from receipt unless other arrangements are made.		Received on ice (Circle) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Is Pack		Receipt Temp.			
						3.2 °C			
						2.3 °C			
						4.0 °C			

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Client Copy
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Number 121683

Client <i>West Kinghouse</i> Address <i>5501 Bluff Rd</i> City <i>Hopkins</i> State <i>SC</i> Zip Code <i>29061</i> Project Name <i>R.I. Phase II</i>		Report to Contact <i>Diana Jumper</i> Sampler's Signature <i>Chris K Sublett</i> Printed Name <i>Chris K Sublett</i>		Telephone No. / E-mail <i>Seymour & Westinghouse, Inc.</i> Analysis (Attach list if more space is needed)		Circle No. Page <i>2</i> of <i>4</i> WF01013 BVG Remarks / Cooler ID.		
Project No.	Sample ID / Description (Containers for each sample may be included on one line.)	Collection Date(s)	Collection Time (Military)	Matrix	No. of Containers by Preservative Type			GC Requirements (Specify)
					None	Acid	Alkaline	
	SS-22-6-7	5/29/21	1215	X		5		
	SS-22-7-8	5/29/21	1225	X		5		
	SS-22-7-8-DP	5/29/21	1225	X		5		
	SS-23-6-7	5/29/21	1240	X		5		
	SS-23-7-8	5/29/21	1250	X		5		
	SS-24-3-4	5/29/21	1300	X		5		
	FB-01-052921	5/29/21	1315	X	3			
	SS-24-7-8	5/29/21	1330	X		5		
	SS-24-7-8-M.S	5/29/21	1330	X		5		
	SS-24-7-8-M.S.D	5/29/21	1330	X		5		

Turn Around Time Required (Prior lab approval required for expedited TAT.) <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush (Specify)		Samples Disposed <input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Disposed by Lab		Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Corrosive <input type="checkbox"/> Irritant <input type="checkbox"/> Poison <input type="checkbox"/> Unknown	
1. Requisitioned by	<i>Chris K Sublett</i>	Date	5/21/21	Time	1015
2. Requisitioned by		Date		Time	
3. Requisitioned by		Date		Time	
4. Requisitioned by		Date		Time	

Note: All samples are retained for four weeks from receipt unless other arrangements are made.		LAB USE ONLY Received on ice (Circle) <input checked="" type="radio"/> Yes <input type="radio"/> No Ice Pack <input type="checkbox"/> Recovery Temp. <i>3-7</i> °C	
4. Laboratory received by <i>Chris K Sublett</i>		Date	5/10/21
Temp Blank <input type="checkbox"/> <input type="checkbox"/> N		2.3°C 4.0°C	


DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Clean Copy

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Number 121585

Client: <u>Westinghouse</u> Address: <u>5001 Bluff Rd</u> City: <u>Hopkins</u> Project Name: <u>RIS Phase II</u>	Report to Contact: <u>Diane Joyner</u> Sampler's Signature: <u>Christa K. Suddeth</u> Printed Name: <u>Christa K. Suddeth</u>	Telephone No. / E-mail: <u>803-791-9700 / westinghouse.com</u> Analysis (Attach list if more space is needed)	Coche No.: _____ Page: <u>3</u> of <u>4</u>	 WF01013 BMC Remarks / Cooler I.D.
Project No.: _____ State: <u>SC</u> Zip Code: <u>29106</u>	P.O. No.: _____ Collection Dates: _____	Mark: _____ No. of Canisters by Preservative Type:		
Sample ID / Description (Containers for each sample only to be completed on one line.)	Collection Date(s)	No. of Canisters by Preservative Type:		
SS-25-5-6 SS-25-7-8 SS-26-3-4 SS-26-7-8 SS-27-1-2 SS-27-7-8 SS-27-7-8-DP SS-28-1-2 SS-28-7-8	5/21/21 5/21/21 5/21/21 5/21/21 5/21/21 5/21/21 5/21/21 5/21/21	6 6 6 6 6 6 6 6	5 5 5 5 5 5 5 5	X X X X X X X X
Turn Around Time Required (Prior lab approval required for expedited TAT): <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush (Specify)	Sample Disposal: <input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Dispose by Lab	Possible Hazard Identification: <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Corrosive <input type="checkbox"/> Unknown	GC Requirements (Specify)	
1. Relinquished by: <u>Christa K. Suddeth</u> Date: <u>6/1/21</u> Time: <u>10:15</u>	2. Relinquished by: _____ Date: _____ Time: _____	3. Relinquished by: _____ Date: _____ Time: _____	4. Laboratory received by: <u>Angie Goodwin</u> Date: <u>6/1/21</u> Time: <u>10:15</u>	Temp Blank: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Receipt Temp: <u>3.2 °C</u> <u>2.3 °C</u> <u>4.0 °C</u>
Note: All samples are retained for four weeks from receipt unless other arrangements are made.				

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s), PINK-Field/Client Copy
 Document Number: MEUC012-01

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Number 121684

Client: <i>Westinghouse</i> Address: <i>5801 Bluff Rd</i> City: <i>Hopkins</i> Project Name: <i>RIS Phase II</i>	Report to Contact: <i>Diana Taylor</i> Sampler's Signature: <i>Charles K Suddeth</i> Printed Name: <i>Charles K Suddeth</i>	Telephone No. / E-mail: <i>803-791-9700 / jpyne@pacelabs.com</i> Analysis (Alphabetical if more than one is requested)	Quote No.: _____ Page: <i>4</i> of <i>4</i> BMS: WF01013 Remarks / Cooler ID: _____									
Project No. _____ Sample ID / Description (Containers for each sample may be collected on one line)	Collection Date (s)	Collection Time (M:SS)	Matrix: <input type="checkbox"/> Soil <input type="checkbox"/> Sediment <input type="checkbox"/> Sludge <input type="checkbox"/> Other	No. of Containers by Preservative Type: <table border="1" style="font-size: small;"> <tr> <th>Preservative</th> <th>No. of Containers</th> </tr> <tr> <td>None</td> <td></td> </tr> <tr> <td>Formal</td> <td></td> </tr> <tr> <td>Other</td> <td></td> </tr> </table>	Preservative	No. of Containers	None		Formal		Other	
Preservative	No. of Containers											
None												
Formal												
Other												
SS-29-4-5 SS-29-4-5-MS SS-29-4-5-MSD SS-29-7-8 TB-01-052921 TB-02-052921 EB-02-052921	5/29/21 5/29/21 5/29/21 5/29/21 5/29/21 5/29/21 5/29/21	1620 1620 1620 1635 1020 1340 1955	X X X X X X X	5 5 5 5 2 2 3								
Turn Around Time Required (Prior lab approval required for expedited TAT) [S-Standard] [L-Rush (Specify)]	Sample Disposal: <input checked="" type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab	Possible Hazard Identification: <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison <input type="checkbox"/> Infectious	QC Requirements (Specify)	Date: _____ Time: _____ Date: _____ Time: _____ Date: _____ Time: _____								
1. Requiring by: <i>Charles K Suddeth</i> 2. Requiring by: _____ 3. Requiring by: _____ 4. Requiring by: _____	Date: <i>5/21/21</i> Time: <i>7:15</i> Date: _____ Time: _____ Date: _____ Time: _____ Date: _____ Time: _____	1. Received by: _____ 2. Received by: _____ 3. Received by: _____ 4. Laboratory received by: <i>Amy Buchanan</i>	Date: <i>5/11/21</i> Time: <i>1015</i> Temp Blank: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Receipt Temp: <i>3.2 °C</i> 2.3 °C 21.0 °C								
Note: All samples are retained for four weeks from receipt unless other arrangements are made.				LAB USE ONLY Received on ice (Check) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Use Park Receipt Temp								

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PACE ANALYTICAL SERVICES, LLC



Samples Receipt Checklist (SRC) (ME0018C-15)
Issuing Authority: Pace ENV - WCOL

Revised: 9/29/2020
Page 1 of 1

Sample Receipt Checklist (SRC)

Client: Westinghouse Cooler Inspected by/date: JRG2 / 06/01/2021 Lot #: WF01913

Means of receipt: <input type="checkbox"/> Pace <input checked="" type="checkbox"/> Client <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Other:	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	1. Were custody seals present on the cooler?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	2. If custody seals were present, were they intact and unbroken?
pH Strip ID: <u>NA</u> Chlorine Strip ID: <u>NA</u> Tested by: <u>NA</u>	
Original temperature upon receipt / Derived (Corrected) temperature upon receipt %Solid Snap-Cup ID: <u>21-238</u> <u>1.2 / 3.2</u> °C <u>2.3 / 2.3</u> °C <u>4.0 / 4.0</u> °C <u>NA / NA</u> °C	
Method: <input checked="" type="checkbox"/> Temperature Blank <input type="checkbox"/> Against Bottles IR Gun ID: <u>5</u> IR Gun Correction Factor: <u>0</u> °C	
Method of coolant: <input checked="" type="checkbox"/> Wet Ice <input type="checkbox"/> Ice Packs <input type="checkbox"/> Dry Ice <input type="checkbox"/> None	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	3. If temperature of any cooler exceeded 6.0°C, was Project Manager Notified? PM was Notified by: phone / email / face-to-face (circle one).
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	4. Is the commercial courier's packing slip attached to this form?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5. Were proper custody procedures (relinquished/received) followed?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	6. Were sample IDs listed on the COC?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	7. Were sample IDs listed on all sample containers?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8. Was collection date & time listed on the COC?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9. Was collection date & time listed on all sample containers?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10. Did all container label information (ID, date, time) agree with the COC?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	11. Were tests to be performed listed on the COC?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	12. Did all samples arrive in the proper containers for each test and/or in good condition (unbroken, lids on, etc.)?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	13. Was adequate sample volume available?
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	14. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	15. Were any samples containers missing/excess (circle one) samples Not listed on COC?
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA	16. For VOA and RSK-175 samples, were bubbles present >"pea-size" (¼" or 6mm in diameter) in any of the VOA vials?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	17. Were all DRO/metals/nutrient samples received at a pH of < 2?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	18. Were all cyanide samples received at a pH > 12 and sulfide samples received at a pH > 9?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	19. Were all applicable NH ₃ /TKN/cyanide/picnol/625.1/608.3 (< 0.5mg/L) samples free of residual chlorine?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	20. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc...) correctly transcribed from the COC into the comment section in LIMS?
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	21. Was the quote number listed on the container label? If yes, Quote #
Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)	
Sample(s) <u>NA</u> were received incorrectly preserved and were adjusted accordingly in sample receiving with <u>NA</u> ml. of circle one: H2SO4, HNO3, HCl, NaOH using SR # <u>NA</u> . Time of preservation <u>NA</u> . If more than one preservative is needed, please note in the comments below.	
Sample(s) <u>NA</u> were received with bubbles >6 mm in diameter.	
Sample(s) <u>NA</u> were received with TRC > 0.5 mg/L (If #19 is <i>na</i>) and were adjusted accordingly in sample receiving with sodium thiosulfate (Na ₂ S ₂ O ₃) with Shealy ID: <u>NA</u> .	
SR barcode labels applied by: <u>JRG2</u> Date: <u>06/01/2021</u>	

Comments:
