



Westinghouse Electric Company
Nuclear Fuel
Columbia Fuel Fabrication Facility
5801 Bluff Road
Hopkins, South Carolina 29061
USA

SCDHEC, BLWM
Kim Kuhn
2600 Bull Street
Columbia, SC 29201

Direct tel: 803.647.1920
Direct fax: 803.695.3964
e-mail: joynerdp@westinghouse.com
Your ref:
Our ref: LTR-RAC-21-62

September 2, 2021

Subject: **August 2021 CA Progress Report**

Ms. Kuhn:

In accordance with Item 19 of Consent Agreement (CA) 19-02-HW, this progress report is being submitted to you, including the following requested information:

- (a) a brief description of the actions which Westinghouse has taken toward achieving compliance with the Consent Agreement during the previous month;
- (b) results of sampling and tests, in tabular summary format received by Westinghouse during the reporting period;
- (c) a brief description of all actions which are scheduled for the next month to achieve compliance with the Consent Agreement, and other information relating to the progress of the work as deemed necessary or requested by the Department; and
- (d) information regarding the percentage of work completed and any delays encountered or anticipated that may affect the approved schedule for implementation of the terms of the Consent Agreement, and a description of efforts made to mitigate delays or avoid anticipated delays.

In response to the above requirements, the following is being reported to the Department since the last progress report submitted on **August 11, 2021**. The following progress report is for work occurring from **August 1- 31, 2021**:

- (a) Actions during the previous month:
Westinghouse began implementation of the Final Remedial Investigation (RI) Work Plan on 6/10/19. To comply with **Item 4** of the CA, the following actions were completed this month.
 - Completed the following to support the **Phase II RI** Work Plan:
 - Completed the remainder of Phase II groundwater sampling.

- Conducted slug testing.
- Surveyed the following locations:
 - The Entrance and Upper 2 staff gages, whose elevations were not able to be surveyed to the desired accuracy during the April 2021 survey campaign (tree canopies were obstructing the instrument's ability to view and connect to satellites);
 - Chlorinated volatile organics soil sampling locations SS-18 through SS-29;
 - Groundwater screening borings installed after the April 2021 survey campaign (L-59 through L-62);
 - Top of casing for the new monitoring wells, piezometer and associated ground surfaces;
 - Tops of both the Lower Sunset Lake spillway and the spillway at the western end of the canal; and
 - Deeply incised portions of the site ditches per the RI Phase II Work Plan.
- Completed the following to support **East Lagoon Closure** Activities:
 - Completed backfilling and compaction of clean restoration soil into the former East Lagoon footprint.
 - Hydroseeded the East Lagoon former footprint.
 - Completed installation of stormwater drainage system through existing "Alpha" Valve.
 - Conducted soil sampling within the stormwater ditch at or near the former discharge locations of the:
 - terra cotta French drain system and
 - buried stainless steel pipe.
 - East Lagoon Metrics:
 - Soil and liner shipments = 100% complete (8/8 Rail Shipments).
 - Restoration backfill = 100% complete (4100 yd³).
- Completed the following to support **Calcium Fluoride (CaF₂) Pad Restoration** Activities:
 - Completed ground penetrating radar (GPR) survey of the bag storage area in order to identify any potential underground utilities prior to fence installation.
 - Mobilized job work trailers, generators, and other necessary equipment.
 - Installed geotextile fabric and mats to create the CaF₂ bag storage area.
 - Installed fencing to control access to the CaF₂ bag storage area.
 - Completed calibrations of two scales used for bagging operations.
 - Began bagging CaF₂ on Monday, 8/16.
 - CaF₂ bagging operations = 43% complete
- Completed the following to support **Cultural Resources Survey** Activities:
 - Hosted a site scoping visit with Brockington Archaeologists during which time several survey transects were identified.
 - Conducted utility location.

(b) Results of sampling and tests:

Soil Sampling Results Under Sheds S-22 through S-26

- On July 13, 2021, Westinghouse conducted systematic and bias soil sampling in accordance with the approved SSA OU Soil Sampling Work Plan in the former footprint of 5 sheds (S-22 through S-26). Final analytical results were received from the external laboratory in August. All soil samples collected were below residential screening levels. A consolidated data table and graphic of sampling locations are included as **Attachment A** of this monthly report.

(c) Brief description of all actions which are scheduled for the next month:

In accordance with **Item 4** of the CA, Westinghouse will continue to implement the Work Plan to include the following actions:

- Continue to review Phase II analytical results and prepare for the September 16 meeting with DHEC.
- Begin preparations to submit the annual Groundwater Monitoring Report to DHEC on or before September 28, 2021 in accordance with NPDES Permit SC00001848.
- Begin the Cultural Resources field work on Westinghouse property.
- Continue activities to support East Lagoon Closure:
 - Complete the final (as built) elevation surveys.
 - Prepare and submit on or before December 31, 2021 a written closure report, which includes a certification letter by a SC Registered Professional Engineer or Geologist that the lagoon closeout was complete in accordance with the approved closure plan.
 - Final inspection by the DHEC Regional Office.

(d) Percentage of work completed and any delays encountered or anticipated:

- 100% of Phase II **field** work scope completed.
- Currently there are no anticipated delays.

Respectfully,



Diana P. Joyner
Principal Environmental Engineer
Westinghouse Electric Company, CFFF
803.497.7062 (m)

cc: N. Parr, Environmental Manager
J. Ferguson, EH&S Manager
J. Grant, AECOM Project Manager
ENOVIA Records

Attachment A: Soil Sampling Results Under Sheds S-22 through S-26

Attachment A

Soil Sampling Results Under Sheds S-22 through S-26

Attachment A

Sheds S-22 through S-26

Soil Sampling Analysis Compilation, Radionuclide Sum of Fractions (SOF)

Sample ID	Analyte (pCi/g)										SOF	
		U-234 DL	U-234		U-235 DL	U-235	U-238	Sum U		Tc-99 DL	Tc-99	Resid.
S-22-1			1.78	<	0.384	0.0716	1.85	3.70	<	0.530	0.0303	0.28
S-22-2			1.99			0.147	1.58	3.72	<	0.506	0.0640	0.29
S-22-3			2.11	<	0.231	0.0834	1.54	3.73	<	0.505	0	0.28
S-23-4			1.51	<	0.222	0.181	1.37	3.06	<	0.519	0.101	0.24
S-23-5			1.88	<	0.276	0.112	1.58	3.57	<	0.541	0.0880	0.28
S-23-6			1.62	<	0.235	0.0637	1.92	3.60	<	0.467	0.0394	0.27
S-24-7			2.85			0.133	2.13	5.11	<	0.484	0	0.39
S-24-8			3.33	<	0.301	0.196	2.77	6.30	<	0.481	0	0.48
S-24-9			0.626	<	0.153	0.0200	0.792	1.44	<	0.541	0.121	0.11
S-25-10			1.77	<	0.331	0.0897	1.89	3.75	<	0.501	0	0.28
S-25-11			1.88			0.201	1.72	3.80	<	0.488	0.109	0.30
S-25-12	<	0.351	0.220	<	0.169	0.000	0.481	0.70	<	0.472	0	0.05
S-26-13			1.18	<	0.309	0.0429	1.42	2.64	<	0.471	0.0111	0.20
S-26-14			3.63	<	0.252	0.225	3.07	6.93	<	0.487	0	0.53
S-26-15			0.922	<	0.274	0.000	1.24	2.16	<	0.486	0	0.16

Notes:

Negative values reflected as zero

Residential Limits in Soil (per RA-433)

U234	13 pCi/g
U235	8 pCi/g
U238	14 pCi/g
Tc-99	19 pCi/g



NOTES

- 1) All CVOC RESULTS WERE BELOW DETECTION LIMITS.
- 2) VALUES SHOWN ARE RESIDENTAL SOF

- SYSTEMATIC ISOTOPIC URANIUM
- SYSTEMATIC ISOTOPIC URANIUM & VOC

SUM OF FRACTIONS OF
ISOTOPIC URANIUM IN SOIL
BENEATH SEA-LAND CONTAINERS

REMOVAL CAMPAIGN #7

SHEET # 7



August 11, 2021

Cynthia Teague
Westinghouse Electric Company
5801 Bluff Road
Hopkins, South Carolina 29061

Re: Soil and Vegetation Analysis
Work Order: 549629

Dear Cynthia Teague:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on July 14, 2021. 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. 4523.

Sincerely,

Samuel Hogan
Project Manager

Purchase Order: 4500822910 Line 1
Enclosures



GEL LABORATORIES LLC

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

Certificate of Analysis Report for

WNUC010 Westinghouse Electric Company PO (4500822910)

Client SDG: 549629 GEL Work Order: 549629

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
- H Analytical holding time was exceeded
- J See case narrative for an explanation
- J Value is estimated
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- h Preparation or preservation holding time was exceeded

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, Samuel Hogan.



Reviewed by _____

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: August 11, 2021

Company : Westinghouse Electric Company
Address : 5801 Bluff Road

Hopkins, South Carolina 29061

Contact: Cynthia Teague
Project: Soil and Vegetation Analysis

Client Sample ID: S-22-1	Project: WNUC01023
Sample ID: 549629001	Client ID: WNUC010
Matrix: Solid	
Collect Date: 13-JUL-21 09:10	
Receive Date: 14-JUL-21	
Collector: Client	
Moisture: 7.19%	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
SW846 8260D Volatiles, Solid "Dry Weight Corrected"												
1,1,1-Trichloroethane	U	ND	0.271	0.813	ug/kg	0.754	1	JM6	07/27/21	1451	2155277	1
1,1,2,2-Tetrachloroethane	U	ND	0.271	0.813	ug/kg	0.754	1					
1,1,2-Trichloroethane	U	ND	0.271	0.813	ug/kg	0.754	1					
1,1-Dichloroethane	U	ND	0.271	0.813	ug/kg	0.754	1					
1,1-Dichloroethylene	U	ND	0.271	0.813	ug/kg	0.754	1					
1,2,3-Trichlorobenzene	U	ND	0.271	0.813	ug/kg	0.754	1					
1,2,4-Trichlorobenzene	U	ND	0.271	0.813	ug/kg	0.754	1					
1,2-Dibromo-3-chloropropane	U	ND	0.406	0.813	ug/kg	0.754	1					
1,2-Dibromoethane	U	ND	0.271	0.813	ug/kg	0.754	1					
1,2-Dichlorobenzene	U	ND	0.271	0.813	ug/kg	0.754	1					
1,2-Dichloroethane	U	ND	0.271	0.813	ug/kg	0.754	1					
1,2-Dichloropropane	U	ND	0.271	0.813	ug/kg	0.754	1					
1,3-Dichlorobenzene	U	ND	0.271	0.813	ug/kg	0.754	1					
1,4-Dichlorobenzene	U	ND	0.271	0.813	ug/kg	0.754	1					
1,4-Dioxane	U	ND	13.5	40.6	ug/kg	0.754	1					
2-Butanone	U	ND	1.35	4.06	ug/kg	0.754	1					
2-Hexanone	U	ND	1.35	4.06	ug/kg	0.754	1					
4-Methyl-2-pentanone	U	ND	1.35	4.06	ug/kg	0.754	1					
Acetone		12.8	1.35	4.06	ug/kg	0.754	1					
Benzene	U	ND	0.271	0.813	ug/kg	0.754	1					
Bromochloromethane	U	ND	0.271	0.813	ug/kg	0.754	1					
Bromodichloromethane	U	ND	0.271	0.813	ug/kg	0.754	1					
Bromoform	U	ND	0.271	0.813	ug/kg	0.754	1					
Bromomethane	U	ND	0.271	0.813	ug/kg	0.754	1					
Carbon disulfide	U	ND	1.35	4.06	ug/kg	0.754	1					
Carbon tetrachloride	U	ND	0.271	0.813	ug/kg	0.754	1					
Chlorobenzene	U	ND	0.271	0.813	ug/kg	0.754	1					
Chloroethane	U	ND	0.271	0.813	ug/kg	0.754	1					
Chloroform	U	ND	0.271	0.813	ug/kg	0.754	1					
Chloromethane	U	ND	0.271	0.813	ug/kg	0.754	1					
Cyclohexane	U	ND	0.271	0.813	ug/kg	0.754	1					
Dibromochloromethane	U	ND	0.271	0.813	ug/kg	0.754	1					
Dichlorodifluoromethane	U	ND	0.271	0.813	ug/kg	0.754	1					
Ethylbenzene	U	ND	0.271	0.813	ug/kg	0.754	1					
Isopropylbenzene	U	ND	0.271	0.813	ug/kg	0.754	1					
Methyl acetate	U	ND	1.35	4.06	ug/kg	0.754	1					

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: August 11, 2021

Company : Westinghouse Electric Company
Address : 5801 Bluff Road

Contact: Hopkins, South Carolina 29061
Cynthia Teague
Project: Soil and Vegetation Analysis

Client Sample ID: S-22-1	Project: WNUC01023
Sample ID: 549629001	Client ID: WNUC010

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
SW846 8260D Volatiles, Solid "Dry Weight Corrected"												
Methylcyclohexane	U	ND	0.271	0.813	ug/kg	0.754	1					
Methylene chloride	U	ND	1.35	4.06	ug/kg	0.754	1					
Styrene	U	ND	0.271	0.813	ug/kg	0.754	1					
Tetrachloroethylene	U	ND	0.271	0.813	ug/kg	0.754	1					
Toluene	U	ND	0.271	0.813	ug/kg	0.754	1					
Trichloroethylene	U	ND	0.271	0.813	ug/kg	0.754	1					
Trichlorofluoromethane	U	ND	0.271	0.813	ug/kg	0.754	1					
Trichlorotrifluoroethane	U	ND	1.35	4.06	ug/kg	0.754	1					
Vinyl chloride	U	ND	0.271	0.813	ug/kg	0.754	1					
cis-1,2-Dichloroethylene	U	ND	0.271	0.813	ug/kg	0.754	1					
cis-1,3-Dichloropropylene	U	ND	0.271	0.813	ug/kg	0.754	1					
m,p-Xylenes	U	ND	0.542	1.63	ug/kg	0.754	1					
o-Xylene	U	ND	0.271	0.813	ug/kg	0.754	1					
tert-Butyl methyl ether	U	ND	0.271	0.813	ug/kg	0.754	1					
trans-1,2-Dichloroethylene	U	ND	0.271	0.813	ug/kg	0.754	1					
trans-1,3-Dichloropropylene	U	ND	0.271	0.813	ug/kg	0.754	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 5035	5035 Prep	JM6	07/27/21	1232	2155274

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 8260D	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
1,2-Dichloroethane-d4	SW846 8260D Volatiles, Solid "Dry Weight Corrected"	36.1 ug/kg	50.0	89	(76%-127%)
Bromofluorobenzene	SW846 8260D Volatiles, Solid "Dry Weight Corrected"	37.5 ug/kg	50.0	92	(70%-130%)
Toluene-d8	SW846 8260D Volatiles, Solid "Dry Weight Corrected"	41.3 ug/kg	50.0	102	(81%-120%)

Notes:

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: August 11, 2021

Company : Westinghouse Electric Company
Address : 5801 Bluff Road

Contact: Hopkins, South Carolina 29061
Cynthia Teague
Project: Soil and Vegetation Analysis

Client Sample ID:	S-22-1	Project:	WNUC01023
Sample ID:	549629001	Client ID:	WNUC010

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
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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: August 11, 2021

Company : Westinghouse Electric Company
Address : 5801 Bluff Road

Hopkins, South Carolina 29061

Contact: Cynthia Teague
Project: Soil and Vegetation Analysis

Client Sample ID: S-23-5	Project: WNUC01023
Sample ID: 549629005	Client ID: WNUC010
Matrix: Solid	
Collect Date: 13-JUL-21 09:59	
Receive Date: 14-JUL-21	
Collector: Client	
Moisture: 12.5%	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
SW846 8260D Volatiles, Solid "Dry Weight Corrected"												
1,1,1-Trichloroethane	HUh	ND	0.333	1.00	ug/kg	0.876	1	JM6	07/29/21	0203	2155277	1
1,1,2,2-Tetrachloroethane	HUh	ND	0.333	1.00	ug/kg	0.876	1					
1,1,2-Trichloroethane	HUh	ND	0.333	1.00	ug/kg	0.876	1					
1,1-Dichloroethane	HUh	ND	0.333	1.00	ug/kg	0.876	1					
1,1-Dichloroethylene	HUh	ND	0.333	1.00	ug/kg	0.876	1					
1,2,3-Trichlorobenzene	HUh	ND	0.333	1.00	ug/kg	0.876	1					
1,2,4-Trichlorobenzene	HUh	ND	0.333	1.00	ug/kg	0.876	1					
1,2-Dibromo-3-chloropropane	HUh	ND	0.500	1.00	ug/kg	0.876	1					
1,2-Dibromoethane	HUh	ND	0.333	1.00	ug/kg	0.876	1					
1,2-Dichlorobenzene	HUh	ND	0.333	1.00	ug/kg	0.876	1					
1,2-Dichloroethane	HUh	ND	0.333	1.00	ug/kg	0.876	1					
1,2-Dichloropropane	HUh	ND	0.333	1.00	ug/kg	0.876	1					
1,3-Dichlorobenzene	HUh	ND	0.333	1.00	ug/kg	0.876	1					
1,4-Dichlorobenzene	HUh	ND	0.333	1.00	ug/kg	0.876	1					
1,4-Dioxane	HUh	ND	16.7	50.0	ug/kg	0.876	1					
2-Butanone	HJh	4.74	1.67	5.00	ug/kg	0.876	1					
2-Hexanone	HUh	ND	1.67	5.00	ug/kg	0.876	1					
4-Methyl-2-pentanone	HUh	ND	1.67	5.00	ug/kg	0.876	1					
Acetone	Hh	28.1	1.67	5.00	ug/kg	0.876	1					
Benzene	HUh	ND	0.333	1.00	ug/kg	0.876	1					
Bromochloromethane	HUh	ND	0.333	1.00	ug/kg	0.876	1					
Bromodichloromethane	HUh	ND	0.333	1.00	ug/kg	0.876	1					
Bromoform	HUh	ND	0.333	1.00	ug/kg	0.876	1					
Bromomethane	HUh	ND	0.333	1.00	ug/kg	0.876	1					
Carbon disulfide	HUh	ND	1.67	5.00	ug/kg	0.876	1					
Carbon tetrachloride	HUh	ND	0.333	1.00	ug/kg	0.876	1					
Chlorobenzene	HUh	ND	0.333	1.00	ug/kg	0.876	1					
Chloroethane	HUh	ND	0.333	1.00	ug/kg	0.876	1					
Chloroform	HUh	ND	0.333	1.00	ug/kg	0.876	1					
Chloromethane	HUh	ND	0.333	1.00	ug/kg	0.876	1					
Cyclohexane	HUh	ND	0.333	1.00	ug/kg	0.876	1					
Dibromochloromethane	HUh	ND	0.333	1.00	ug/kg	0.876	1					
Dichlorodifluoromethane	HUh	ND	0.333	1.00	ug/kg	0.876	1					
Ethylbenzene	HUh	ND	0.333	1.00	ug/kg	0.876	1					
Isopropylbenzene	HUh	ND	0.333	1.00	ug/kg	0.876	1					
Methyl acetate	HUh	ND	1.67	5.00	ug/kg	0.876	1					

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: August 11, 2021

Company : Westinghouse Electric Company
Address : 5801 Bluff Road

Contact: Hopkins, South Carolina 29061
Cynthia Teague
Project: Soil and Vegetation Analysis

Client Sample ID: S-23-5	Project: WNUC01023
Sample ID: 549629005	Client ID: WNUC010

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
SW846 8260D Volatiles, Solid "Dry Weight Corrected"												
Methylcyclohexane	HUh	ND	0.333	1.00	ug/kg	0.876	1					
Methylene chloride	HUh	ND	1.67	5.00	ug/kg	0.876	1					
Styrene	HUh	ND	0.333	1.00	ug/kg	0.876	1					
Tetrachloroethylene	HUh	ND	0.333	1.00	ug/kg	0.876	1					
Toluene	HUh	ND	0.333	1.00	ug/kg	0.876	1					
Trichloroethylene	HUh	ND	0.333	1.00	ug/kg	0.876	1					
Trichlorofluoromethane	HUh	ND	0.333	1.00	ug/kg	0.876	1					
Trichlorotrifluoroethane	HUh	ND	1.67	5.00	ug/kg	0.876	1					
Vinyl chloride	HUh	ND	0.333	1.00	ug/kg	0.876	1					
cis-1,2-Dichloroethylene	HUh	ND	0.333	1.00	ug/kg	0.876	1					
cis-1,3-Dichloropropylene	HUh	ND	0.333	1.00	ug/kg	0.876	1					
m,p-Xylenes	HUh	ND	0.668	2.00	ug/kg	0.876	1					
o-Xylene	HUh	ND	0.333	1.00	ug/kg	0.876	1					
tert-Butyl methyl ether	HUh	ND	0.333	1.00	ug/kg	0.876	1					
trans-1,2-Dichloroethylene	HUh	ND	0.333	1.00	ug/kg	0.876	1					
trans-1,3-Dichloropropylene	HUh	ND	0.333	1.00	ug/kg	0.876	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 5035	5035 Prep	JM6	07/28/21	1435	2155274

The following Analytical Methods were performed:

Method	Description	Analyst Comments				
1	SW846 8260D					
Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits	
1,2-Dichloroethane-d4	SW846 8260D Volatiles, Solid "Dry Weight Corrected"	45.0 ug/kg	50.0	90	(76%-127%)	
Bromofluorobenzene	SW846 8260D Volatiles, Solid "Dry Weight Corrected"	47.4 ug/kg	50.0	95	(70%-130%)	
Toluene-d8	SW846 8260D Volatiles, Solid "Dry Weight Corrected"	49.9 ug/kg	50.0	100	(81%-120%)	

Notes:

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: August 11, 2021

Company : Westinghouse Electric Company
Address : 5801 Bluff Road

Contact: Hopkins, South Carolina 29061
Cynthia Teague
Project: Soil and Vegetation Analysis

Client Sample ID:	S-23-5	Project:	WNUC01023
Sample ID:	549629005	Client ID:	WNUC010

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
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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: August 11, 2021

Company : Westinghouse Electric Company
Address : 5801 Bluff Road

Hopkins, South Carolina 29061

Contact: Cynthia Teague
Project: Soil and Vegetation Analysis

Client Sample ID: S-24-9
Sample ID: 549629009
Matrix: Solid
Collect Date: 13-JUL-21 10:19
Receive Date: 14-JUL-21
Collector: Client
Moisture: 9.1%

Project: WNUC01023
Client ID: WNUC010

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
SW846 8260D Volatiles, Solid "Dry Weight Corrected"												
1,1,1-Trichloroethane	U	ND	0.342	1.03	ug/kg	0.935	1	JM6	07/27/21	1542	2155277	1
1,1,2,2-Tetrachloroethane	U	ND	0.342	1.03	ug/kg	0.935	1					
1,1,2-Trichloroethane	U	ND	0.342	1.03	ug/kg	0.935	1					
1,1-Dichloroethane	U	ND	0.342	1.03	ug/kg	0.935	1					
1,1-Dichloroethylene	U	ND	0.342	1.03	ug/kg	0.935	1					
1,2,3-Trichlorobenzene	U	ND	0.342	1.03	ug/kg	0.935	1					
1,2,4-Trichlorobenzene	U	ND	0.342	1.03	ug/kg	0.935	1					
1,2-Dibromo-3-chloropropane	U	ND	0.514	1.03	ug/kg	0.935	1					
1,2-Dibromoethane	U	ND	0.342	1.03	ug/kg	0.935	1					
1,2-Dichlorobenzene	U	ND	0.342	1.03	ug/kg	0.935	1					
1,2-Dichloroethane	U	ND	0.342	1.03	ug/kg	0.935	1					
1,2-Dichloropropane	U	ND	0.342	1.03	ug/kg	0.935	1					
1,3-Dichlorobenzene	U	ND	0.342	1.03	ug/kg	0.935	1					
1,4-Dichlorobenzene	U	ND	0.342	1.03	ug/kg	0.935	1					
1,4-Dioxane	U	ND	17.1	51.4	ug/kg	0.935	1					
2-Butanone	U	ND	1.71	5.14	ug/kg	0.935	1					
2-Hexanone	U	ND	1.71	5.14	ug/kg	0.935	1					
4-Methyl-2-pentanone	U	ND	1.71	5.14	ug/kg	0.935	1					
Acetone		14.3	1.71	5.14	ug/kg	0.935	1					
Benzene	U	ND	0.342	1.03	ug/kg	0.935	1					
Bromochloromethane	U	ND	0.342	1.03	ug/kg	0.935	1					
Bromodichloromethane	U	ND	0.342	1.03	ug/kg	0.935	1					
Bromoform	U	ND	0.342	1.03	ug/kg	0.935	1					
Bromomethane	U	ND	0.342	1.03	ug/kg	0.935	1					
Carbon disulfide	U	ND	1.71	5.14	ug/kg	0.935	1					
Carbon tetrachloride	U	ND	0.342	1.03	ug/kg	0.935	1					
Chlorobenzene	U	ND	0.342	1.03	ug/kg	0.935	1					
Chloroethane	U	ND	0.342	1.03	ug/kg	0.935	1					
Chloroform	U	ND	0.342	1.03	ug/kg	0.935	1					
Chloromethane	U	ND	0.342	1.03	ug/kg	0.935	1					
Cyclohexane	U	ND	0.342	1.03	ug/kg	0.935	1					
Dibromochloromethane	U	ND	0.342	1.03	ug/kg	0.935	1					
Dichlorodifluoromethane	U	ND	0.342	1.03	ug/kg	0.935	1					
Ethylbenzene	U	ND	0.342	1.03	ug/kg	0.935	1					
Isopropylbenzene	U	ND	0.342	1.03	ug/kg	0.935	1					
Methyl acetate	U	ND	1.71	5.14	ug/kg	0.935	1					

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: August 11, 2021

Company : Westinghouse Electric Company
Address : 5801 Bluff Road

Contact: Hopkins, South Carolina 29061
Cynthia Teague
Project: Soil and Vegetation Analysis

Client Sample ID: S-24-9	Project: WNUC01023
Sample ID: 549629009	Client ID: WNUC010

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
SW846 8260D Volatiles, Solid "Dry Weight Corrected"												
Methylcyclohexane	U	ND	0.342	1.03	ug/kg	0.935	1					
Methylene chloride	U	ND	1.71	5.14	ug/kg	0.935	1					
Styrene	U	ND	0.342	1.03	ug/kg	0.935	1					
Tetrachloroethylene	U	ND	0.342	1.03	ug/kg	0.935	1					
Toluene	U	ND	0.342	1.03	ug/kg	0.935	1					
Trichloroethylene	U	ND	0.342	1.03	ug/kg	0.935	1					
Trichlorofluoromethane	U	ND	0.342	1.03	ug/kg	0.935	1					
Trichlorotrifluoroethane	U	ND	1.71	5.14	ug/kg	0.935	1					
Vinyl chloride	U	ND	0.342	1.03	ug/kg	0.935	1					
cis-1,2-Dichloroethylene	U	ND	0.342	1.03	ug/kg	0.935	1					
cis-1,3-Dichloropropylene	U	ND	0.342	1.03	ug/kg	0.935	1					
m,p-Xylenes	U	ND	0.686	2.06	ug/kg	0.935	1					
o-Xylene	U	ND	0.342	1.03	ug/kg	0.935	1					
tert-Butyl methyl ether	U	ND	0.342	1.03	ug/kg	0.935	1					
trans-1,2-Dichloroethylene	U	ND	0.342	1.03	ug/kg	0.935	1					
trans-1,3-Dichloropropylene	U	ND	0.342	1.03	ug/kg	0.935	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 5035	5035 Prep	JM6	07/27/21	1233	2155274

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 8260D	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
1,2-Dichloroethane-d4	SW846 8260D Volatiles, Solid "Dry Weight Corrected"	46.7 ug/kg	50.0	91	(76%-127%)
Bromofluorobenzene	SW846 8260D Volatiles, Solid "Dry Weight Corrected"	48.7 ug/kg	50.0	95	(70%-130%)
Toluene-d8	SW846 8260D Volatiles, Solid "Dry Weight Corrected"	51.7 ug/kg	50.0	101	(81%-120%)

Notes:

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Certificate of Analysis

Report Date: August 11, 2021

Company : Westinghouse Electric Company
Address : 5801 Bluff Road

Contact: Hopkins, South Carolina 29061
Cynthia Teague
Project: Soil and Vegetation Analysis

Client Sample ID:	S-24-9	Project:	WNUC01023
Sample ID:	549629009	Client ID:	WNUC010

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
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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

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Certificate of Analysis

Report Date: August 11, 2021

Company : Westinghouse Electric Company
Address : 5801 Bluff Road

Hopkins, South Carolina 29061

Contact: Cynthia Teague
Project: Soil and Vegetation Analysis

Client Sample ID: S-25-11	Project: WNUC01023
Sample ID: 549629011	Client ID: WNUC010
Matrix: Solid	
Collect Date: 13-JUL-21 10:32	
Receive Date: 14-JUL-21	
Collector: Client	
Moisture: 15%	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
SW846 8260D Volatiles, Solid "Dry Weight Corrected"												
1,1,1-Trichloroethane	U	ND	0.347	1.04	ug/kg	0.885	1	JM6	07/27/21	1607	2155277	1
1,1,2,2-Tetrachloroethane	U	ND	0.347	1.04	ug/kg	0.885	1					
1,1,2-Trichloroethane	U	ND	0.347	1.04	ug/kg	0.885	1					
1,1-Dichloroethane	U	ND	0.347	1.04	ug/kg	0.885	1					
1,1-Dichloroethylene	U	ND	0.347	1.04	ug/kg	0.885	1					
1,2,3-Trichlorobenzene	U	ND	0.347	1.04	ug/kg	0.885	1					
1,2,4-Trichlorobenzene	U	ND	0.347	1.04	ug/kg	0.885	1					
1,2-Dibromo-3-chloropropane	U	ND	0.521	1.04	ug/kg	0.885	1					
1,2-Dibromoethane	U	ND	0.347	1.04	ug/kg	0.885	1					
1,2-Dichlorobenzene	U	ND	0.347	1.04	ug/kg	0.885	1					
1,2-Dichloroethane	U	ND	0.347	1.04	ug/kg	0.885	1					
1,2-Dichloropropane	U	ND	0.347	1.04	ug/kg	0.885	1					
1,3-Dichlorobenzene	U	ND	0.347	1.04	ug/kg	0.885	1					
1,4-Dichlorobenzene	U	ND	0.347	1.04	ug/kg	0.885	1					
1,4-Dioxane	U	ND	17.4	52.1	ug/kg	0.885	1					
2-Butanone		6.10	1.74	5.21	ug/kg	0.885	1					
2-Hexanone	U	ND	1.74	5.21	ug/kg	0.885	1					
4-Methyl-2-pentanone	U	ND	1.74	5.21	ug/kg	0.885	1					
Acetone		35.4	1.74	5.21	ug/kg	0.885	1					
Benzene	U	ND	0.347	1.04	ug/kg	0.885	1					
Bromochloromethane	U	ND	0.347	1.04	ug/kg	0.885	1					
Bromodichloromethane	U	ND	0.347	1.04	ug/kg	0.885	1					
Bromoform	U	ND	0.347	1.04	ug/kg	0.885	1					
Bromomethane	U	ND	0.347	1.04	ug/kg	0.885	1					
Carbon disulfide	U	ND	1.74	5.21	ug/kg	0.885	1					
Carbon tetrachloride	U	ND	0.347	1.04	ug/kg	0.885	1					
Chlorobenzene	U	ND	0.347	1.04	ug/kg	0.885	1					
Chloroethane	U	ND	0.347	1.04	ug/kg	0.885	1					
Chloroform	U	ND	0.347	1.04	ug/kg	0.885	1					
Chloromethane	U	ND	0.347	1.04	ug/kg	0.885	1					
Cyclohexane	U	ND	0.347	1.04	ug/kg	0.885	1					
Dibromochloromethane	U	ND	0.347	1.04	ug/kg	0.885	1					
Dichlorodifluoromethane	U	ND	0.347	1.04	ug/kg	0.885	1					
Ethylbenzene	U	ND	0.347	1.04	ug/kg	0.885	1					
Isopropylbenzene	U	ND	0.347	1.04	ug/kg	0.885	1					
Methyl acetate	U	ND	1.74	5.21	ug/kg	0.885	1					

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Certificate of Analysis

Report Date: August 11, 2021

Company : Westinghouse Electric Company
Address : 5801 Bluff Road

Contact: Hopkins, South Carolina 29061
Cynthia Teague
Project: Soil and Vegetation Analysis

Client Sample ID: S-25-11	Project: WNUC01023
Sample ID: 549629011	Client ID: WNUC010

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
SW846 8260D Volatiles, Solid "Dry Weight Corrected"												
Methylcyclohexane	U	ND	0.347	1.04	ug/kg	0.885	1					
Methylene chloride	U	ND	1.74	5.21	ug/kg	0.885	1					
Styrene	U	ND	0.347	1.04	ug/kg	0.885	1					
Tetrachloroethylene	U	ND	0.347	1.04	ug/kg	0.885	1					
Toluene	U	ND	0.347	1.04	ug/kg	0.885	1					
Trichloroethylene	U	ND	0.347	1.04	ug/kg	0.885	1					
Trichlorofluoromethane	U	ND	0.347	1.04	ug/kg	0.885	1					
Trichlorotrifluoroethane	U	ND	1.74	5.21	ug/kg	0.885	1					
Vinyl chloride	U	ND	0.347	1.04	ug/kg	0.885	1					
cis-1,2-Dichloroethylene	U	ND	0.347	1.04	ug/kg	0.885	1					
cis-1,3-Dichloropropylene	U	ND	0.347	1.04	ug/kg	0.885	1					
m,p-Xylenes	U	ND	0.695	2.08	ug/kg	0.885	1					
o-Xylene	U	ND	0.347	1.04	ug/kg	0.885	1					
tert-Butyl methyl ether	U	ND	0.347	1.04	ug/kg	0.885	1					
trans-1,2-Dichloroethylene	U	ND	0.347	1.04	ug/kg	0.885	1					
trans-1,3-Dichloropropylene	U	ND	0.347	1.04	ug/kg	0.885	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 5035	5035 Prep	JM6	07/27/21	1233	2155274

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 8260D	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
1,2-Dichloroethane-d4	SW846 8260D Volatiles, Solid "Dry Weight Corrected"	45.5 ug/kg	50.0	87	(76%-127%)
Bromofluorobenzene	SW846 8260D Volatiles, Solid "Dry Weight Corrected"	50.0 ug/kg	50.0	96	(70%-130%)
Toluene-d8	SW846 8260D Volatiles, Solid "Dry Weight Corrected"	53.8 ug/kg	50.0	103	(81%-120%)

Notes:

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: August 11, 2021

Company : Westinghouse Electric Company
Address : 5801 Bluff Road

Contact: Hopkins, South Carolina 29061
Cynthia Teague
Project: Soil and Vegetation Analysis

Client Sample ID: S-25-11
Sample ID: 549629011

Project: WNUC01023
Client ID: WNUC010

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
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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

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: August 11, 2021

Company : Westinghouse Electric Company
Address : 5801 Bluff Road

Hopkins, South Carolina 29061

Contact: Cynthia Teague
Project: Soil and Vegetation Analysis

Client Sample ID: S-26-13	Project: WNUC01023
Sample ID: 549629013	Client ID: WNUC010
Matrix: Solid	
Collect Date: 13-JUL-21 09:43	
Receive Date: 14-JUL-21	
Collector: Client	
Moisture: 11.8%	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
SW846 8260D Volatiles, Solid "Dry Weight Corrected"												
1,1,1-Trichloroethane	HUh	ND	28.6	85.8	ug/kg	1.51	50	JM6	07/29/21	0228	2155277	1
1,1,2,2-Tetrachloroethane	HUh	ND	28.6	85.8	ug/kg	1.51	50					
1,1,2-Trichloroethane	HUh	ND	28.6	85.8	ug/kg	1.51	50					
1,1-Dichloroethane	HUh	ND	28.6	85.8	ug/kg	1.51	50					
1,1-Dichloroethylene	HUh	ND	28.6	85.8	ug/kg	1.51	50					
1,2,3-Trichlorobenzene	HUh	ND	28.6	85.8	ug/kg	1.51	50					
1,2,4-Trichlorobenzene	HUh	ND	28.6	85.8	ug/kg	1.51	50					
1,2-Dibromo-3-chloropropane	HUh	ND	42.9	85.8	ug/kg	1.51	50					
1,2-Dibromoethane	HUh	ND	28.6	85.8	ug/kg	1.51	50					
1,2-Dichlorobenzene	HUh	ND	28.6	85.8	ug/kg	1.51	50					
1,2-Dichloroethane	HUh	ND	28.6	85.8	ug/kg	1.51	50					
1,2-Dichloropropane	HUh	ND	28.6	85.8	ug/kg	1.51	50					
1,3-Dichlorobenzene	HUh	ND	28.6	85.8	ug/kg	1.51	50					
1,4-Dichlorobenzene	HUh	ND	28.6	85.8	ug/kg	1.51	50					
1,4-Dioxane	HUh	ND	1430	4290	ug/kg	1.51	50					
2-Butanone	HJh	330	143	429	ug/kg	1.51	50					
2-Hexanone	HUh	ND	143	429	ug/kg	1.51	50					
4-Methyl-2-pentanone	HUh	ND	143	429	ug/kg	1.51	50					
Acetone	HUh	ND	143	429	ug/kg	1.51	50					
Benzene	HUh	ND	28.6	85.8	ug/kg	1.51	50					
Bromochloromethane	HUh	ND	28.6	85.8	ug/kg	1.51	50					
Bromodichloromethane	HUh	ND	28.6	85.8	ug/kg	1.51	50					
Bromoform	HUh	ND	28.6	85.8	ug/kg	1.51	50					
Bromomethane	HUh	ND	28.6	85.8	ug/kg	1.51	50					
Carbon disulfide	HUh	ND	143	429	ug/kg	1.51	50					
Carbon tetrachloride	HUh	ND	28.6	85.8	ug/kg	1.51	50					
Chlorobenzene	HUh	ND	28.6	85.8	ug/kg	1.51	50					
Chloroethane	HUh	ND	28.6	85.8	ug/kg	1.51	50					
Chloroform	HUh	ND	28.6	85.8	ug/kg	1.51	50					
Chloromethane	HUh	ND	28.6	85.8	ug/kg	1.51	50					
Cyclohexane	HUh	ND	28.6	85.8	ug/kg	1.51	50					
Dibromochloromethane	HUh	ND	28.6	85.8	ug/kg	1.51	50					
Dichlorodifluoromethane	HUh	ND	28.6	85.8	ug/kg	1.51	50					
Ethylbenzene	HUh	ND	28.6	85.8	ug/kg	1.51	50					
Isopropylbenzene	HUh	ND	28.6	85.8	ug/kg	1.51	50					
Methyl acetate	HUh	ND	143	429	ug/kg	1.51	50					

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Certificate of Analysis

Report Date: August 11, 2021

Company : Westinghouse Electric Company
Address : 5801 Bluff Road

Hopkins, South Carolina 29061

Contact: Cynthia Teague
Project: Soil and Vegetation Analysis

Client Sample ID: S-26-13	Project: WNUC01023
Sample ID: 549629013	Client ID: WNUC010

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
SW846 8260D Volatiles, Solid "Dry Weight Corrected"												
Methylcyclohexane	HUh	ND	28.6	85.8	ug/kg	1.51	50					
Methylene chloride	HUh	ND	143	429	ug/kg	1.51	50					
Styrene	HUh	ND	28.6	85.8	ug/kg	1.51	50					
Tetrachloroethylene	HUh	ND	28.6	85.8	ug/kg	1.51	50					
Toluene	HUh	ND	28.6	85.8	ug/kg	1.51	50					
Trichloroethylene	HUh	ND	28.6	85.8	ug/kg	1.51	50					
Trichlorofluoromethane	HUh	ND	28.6	85.8	ug/kg	1.51	50					
Trichlorotrifluoroethane	HUh	ND	143	429	ug/kg	1.51	50					
Vinyl chloride	HUh	ND	28.6	85.8	ug/kg	1.51	50					
cis-1,2-Dichloroethylene	HUh	ND	28.6	85.8	ug/kg	1.51	50					
cis-1,3-Dichloropropylene	HUh	ND	28.6	85.8	ug/kg	1.51	50					
m,p-Xylenes	HUh	ND	57.2	172	ug/kg	1.51	50					
o-Xylene	HUh	ND	28.6	85.8	ug/kg	1.51	50					
tert-Butyl methyl ether	HUh	ND	28.6	85.8	ug/kg	1.51	50					
trans-1,2-Dichloroethylene	HUh	ND	28.6	85.8	ug/kg	1.51	50					
trans-1,3-Dichloropropylene	HUh	ND	28.6	85.8	ug/kg	1.51	50					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 5035	5035 Prep	JM6	07/28/21	1435	2155274

The following Analytical Methods were performed:

Method	Description	Analyst Comments				
1	SW846 8260D					
Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits	
1,2-Dichloroethane-d4	SW846 8260D Volatiles, Solid "Dry Weight Corrected"	4160 ug/kg	50.0	97	(76%-127%)	
Bromofluorobenzene	SW846 8260D Volatiles, Solid "Dry Weight Corrected"	4040 ug/kg	50.0	94	(70%-130%)	
Toluene-d8	SW846 8260D Volatiles, Solid "Dry Weight Corrected"	4500 ug/kg	50.0	105	(81%-120%)	

Notes:

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Certificate of Analysis

Report Date: August 11, 2021

Company : Westinghouse Electric Company
Address : 5801 Bluff Road

Contact: Hopkins, South Carolina 29061
Cynthia Teague
Project: Soil and Vegetation Analysis

Client Sample ID: S-26-13
Sample ID: 549629013

Project: WNUC01023
Client ID: WNUC010

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
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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

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: August 11, 2021

Company : Westinghouse Electric Company
Address : 5801 Bluff Road

Hopkins, South Carolina 29061

Contact: Cynthia Teague
Project: Soil and Vegetation Analysis

Client Sample ID: S-22-1	Project: WNUC01023
Sample ID: 549629001	Client ID: WNUC010
Matrix: Solid	
Collect Date: 13-JUL-21 09:10	
Receive Date: 14-JUL-21	
Collector: Client	
Moisture: 7.19%	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg "Dry Weight Corrected"													
Uranium-233/234		1.78	+/-0.615	0.658	0.500	pCi/g		MP2	08/09/21	1235	2158332		1
Uranium-235/236	U	0.0716	+/-0.212	0.384	0.500	pCi/g							
Uranium-238		1.85	+/-0.562	0.413	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	0.0303	+/-0.303	0.530	1.00	pCi/g		JJ3	07/25/21	1144	2150573		2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXB7	07/14/21	1744	2150374

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Uranium-232 Tracer	Alphaspec U, Soil/Veg "Dry Weight Corrected"			92.1	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			87.9	(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: August 11, 2021

Company : Westinghouse Electric Company
Address : 5801 Bluff Road

Hopkins, South Carolina 29061

Contact: Cynthia Teague
Project: Soil and Vegetation Analysis

Client Sample ID: S-22-2	Project: WNUC01023
Sample ID: 549629002	Client ID: WNUC010
Matrix: Solid	
Collect Date: 13-JUL-21 09:50	
Receive Date: 14-JUL-21	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg "Dry Weight Corrected"													
Uranium-233/234		1.99	+/-0.431	0.360	0.500	pCi/g		MP2	08/07/21	1059	2158332		1
Uranium-235/236		0.147	+/-0.135	0.0733	0.500	pCi/g							
Uranium-238		1.58	+/-0.372	0.265	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	0.0640	+/-0.291	0.506	1.00	pCi/g		JJ3	07/25/21	1246	2150573		2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXB7	07/14/21	1744	2150374

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Uranium-232 Tracer	Alphaspec U, Soil/Veg "Dry Weight Corrected"			83	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			89.7	(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: August 11, 2021

Company : Westinghouse Electric Company
Address : 5801 Bluff Road

Hopkins, South Carolina 29061

Contact: Cynthia Teague
Project: Soil and Vegetation Analysis

Client Sample ID: S-22-3	Project: WNUC01023
Sample ID: 549629003	Client ID: WNUC010
Matrix: Solid	
Collect Date: 13-JUL-21 09:53	
Receive Date: 14-JUL-21	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg "Dry Weight Corrected"													
Uranium-233/234		2.11	+/-0.384	0.209	0.500	pCi/g		MP2	08/07/21	1059	2158332		1
Uranium-235/236	U	0.0834	+/-0.142	0.231	0.500	pCi/g							
Uranium-238		1.54	+/-0.345	0.273	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.0971	+/-0.283	0.505	1.00	pCi/g		JJ3	07/25/21	1349	2150573		2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXB7	07/14/21	1744	2150374

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Uranium-232 Tracer	Alphaspec U, Soil/Veg "Dry Weight Corrected"			103	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			88.7	(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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Report Date: August 11, 2021

Company : Westinghouse Electric Company
Address : 5801 Bluff Road

Hopkins, South Carolina 29061

Contact: Cynthia Teague
Project: Soil and Vegetation Analysis

Client Sample ID: S-23-4	Project: WNUC01023
Sample ID: 549629004	Client ID: WNUC010
Matrix: Solid	
Collect Date: 13-JUL-21 09:30	
Receive Date: 14-JUL-21	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg "Dry Weight Corrected"													
Uranium-233/234		1.51	+/-0.348	0.311	0.500	pCi/g		MP2	08/07/21	1059	2158332		1
Uranium-235/236	U	0.181	+/-0.162	0.222	0.500	pCi/g							
Uranium-238		1.37	+/-0.312	0.218	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	0.101	+/-0.300	0.519	1.00	pCi/g		JJ3	07/25/21	1451	2150573		2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXB7	07/14/21	1744	2150374

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Uranium-232 Tracer	Alphaspec U, Soil/Veg "Dry Weight Corrected"			101	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			87.2	(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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Report Date: August 11, 2021

Company : Westinghouse Electric Company
Address : 5801 Bluff Road

Hopkins, South Carolina 29061

Contact: Cynthia Teague
Project: Soil and Vegetation Analysis

Client Sample ID: S-23-5	Project: WNUC01023
Sample ID: 549629005	Client ID: WNUC010
Matrix: Solid	
Collect Date: 13-JUL-21 09:59	
Receive Date: 14-JUL-21	
Collector: Client	
Moisture: 12.5%	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg "Dry Weight Corrected"													
Uranium-233/234		1.88	+/-0.410	0.368	0.500	pCi/g		MP2	08/07/21	1059	2158332		1
Uranium-235/236	U	0.112	+/-0.170	0.276	0.500	pCi/g							
Uranium-238		1.58	+/-0.350	0.223	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	0.0880	+/-0.312	0.541	1.00	pCi/g		JJ3	07/25/21	1554	2150573		2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXB7	07/14/21	1744	2150374

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Uranium-232 Tracer	Alphaspec U, Soil/Veg "Dry Weight Corrected"			91.5	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			86.1	(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: August 11, 2021

Company : Westinghouse Electric Company
Address : 5801 Bluff Road

Hopkins, South Carolina 29061

Contact: Cynthia Teague
Project: Soil and Vegetation Analysis

Client Sample ID: S-23-6	Project: WNUC01023
Sample ID: 549629006	Client ID: WNUC010
Matrix: Solid	
Collect Date: 13-JUL-21 10:11	
Receive Date: 14-JUL-21	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg "Dry Weight Corrected"													
Uranium-233/234		1.62	+/-0.359	0.289	0.500	pCi/g		MP2	08/07/21	1059	2158332		1
Uranium-235/236	U	0.0637	+/-0.138	0.235	0.500	pCi/g							
Uranium-238		1.92	+/-0.384	0.277	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	0.0394	+/-0.268	0.467	1.00	pCi/g		JJ3	07/25/21	1656	2150573		2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXB7	07/14/21	1744	2150374

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Uranium-232 Tracer	Alphaspec U, Soil/Veg "Dry Weight Corrected"			95.4	(15%-125%)
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: August 11, 2021

Company : Westinghouse Electric Company
Address : 5801 Bluff Road

Hopkins, South Carolina 29061

Contact: Cynthia Teague
Project: Soil and Vegetation Analysis

Client Sample ID: S-24-7	Project: WNUC01023
Sample ID: 549629007	Client ID: WNUC010
Matrix: Solid	
Collect Date: 13-JUL-21 09:35	
Receive Date: 14-JUL-21	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg "Dry Weight Corrected"													
Uranium-233/234		2.85	+/-0.461	0.255	0.500	pCi/g		MP2	08/07/21	1059	2158332		1
Uranium-235/236		0.133	+/-0.123	0.0663	0.500	pCi/g							
Uranium-238		2.13	+/-0.392	0.171	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.0135	+/-0.275	0.484	1.00	pCi/g		JJ3	07/25/21	1759	2150573		2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXB7	07/14/21	1744	2150374

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Uranium-232 Tracer	Alphaspec U, Soil/Veg "Dry Weight Corrected"			94	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			92.2	(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: August 11, 2021

Company : Westinghouse Electric Company
Address : 5801 Bluff Road

Hopkins, South Carolina 29061
Contact: Cynthia Teague
Project: Soil and Vegetation Analysis

Client Sample ID: S-24-8 Project: WNUC01023
Sample ID: 549629008 Client ID: WNUC010
Matrix: Solid
Collect Date: 13-JUL-21 10:15
Receive Date: 14-JUL-21
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg "Dry Weight Corrected"													
Uranium-233/234		3.33	+/-0.562	0.468	0.500	pCi/g			MP2	08/07/21	1059	2158332	1
Uranium-235/236	U	0.196	+/-0.203	0.301	0.500	pCi/g							
Uranium-238		2.77	+/-0.497	0.365	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.151	+/-0.267	0.481	1.00	pCi/g			JJ3	07/25/21	1901	2150573	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXB7	07/14/21	1744	2150374

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Uranium-232 Tracer	Alphaspec U, Soil/Veg "Dry Weight Corrected"			88.8	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			93.8	(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: August 11, 2021

Company : Westinghouse Electric Company
Address : 5801 Bluff Road

Contact: Hopkins, South Carolina 29061
Cynthia Teague
Project: Soil and Vegetation Analysis

Client Sample ID: S-24-9 Project: WNUC01023
Sample ID: 549629009 Client ID: WNUC010
Matrix: Solid
Collect Date: 13-JUL-21 10:19
Receive Date: 14-JUL-21
Collector: Client
Moisture: 9.1%

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg "Dry Weight Corrected"													
Uranium-233/234		0.626	+/-0.243	0.276	0.500	pCi/g			MP2	08/07/21	1059	2158332	1
Uranium-235/236	U	0.0200	+/-0.0876	0.153	0.500	pCi/g							
Uranium-238		0.792	+/-0.231	0.124	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	0.121	+/-0.314	0.541	1.00	pCi/g			JJ3	07/25/21	2004	2150573	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXB7	07/14/21	1744	2150374

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Uranium-232 Tracer	Alphaspec U, Soil/Veg "Dry Weight Corrected"			111	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			87.6	(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: August 11, 2021

Company : Westinghouse Electric Company
Address : 5801 Bluff Road

Hopkins, South Carolina 29061
Contact: Cynthia Teague
Project: Soil and Vegetation Analysis

Client Sample ID: S-25-10 Project: WNUC01023
Sample ID: 549629010 Client ID: WNUC010
Matrix: Solid
Collect Date: 13-JUL-21 09:38
Receive Date: 14-JUL-21
Collector: Client

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg "Dry Weight Corrected"													
Uranium-233/234		1.77	+/-0.434	0.308	0.500	pCi/g			MP2	08/07/21	1059	2158332	1
Uranium-235/236	U	0.0897	+/-0.194	0.331	0.500	pCi/g							
Uranium-238		1.89	+/-0.440	0.267	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.0756	+/-0.282	0.501	1.00	pCi/g			JJ3	07/25/21	2106	2150573	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXB7	07/14/21	1744	2150374

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Uranium-232 Tracer	Alphaspec U, Soil/Veg "Dry Weight Corrected"			82.4	(15%-125%)
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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Certificate of Analysis

Report Date: August 11, 2021

Company : Westinghouse Electric Company
Address : 5801 Bluff Road

Hopkins, South Carolina 29061

Contact: Cynthia Teague
Project: Soil and Vegetation Analysis

Client Sample ID: S-25-11	Project: WNUC01023
Sample ID: 549629011	Client ID: WNUC010
Matrix: Solid	
Collect Date: 13-JUL-21 10:32	
Receive Date: 14-JUL-21	
Collector: Client	
Moisture: 15%	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg "Dry Weight Corrected"													
Uranium-233/234		1.88	+/-0.470	0.509	0.500	pCi/g		MP2	08/07/21	1100	2158332		1
Uranium-235/236		0.201	+/-0.170	0.192	0.500	pCi/g							
Uranium-238		1.72	+/-0.383	0.224	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	0.109	+/-0.283	0.488	1.00	pCi/g		JJ3	07/25/21	2209	2150573		2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXB7	07/14/21	1744	2150374

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Uranium-232 Tracer	Alphaspec U, Soil/Veg "Dry Weight Corrected"			77.4	(15%-125%)
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: August 11, 2021

Company : Westinghouse Electric Company
Address : 5801 Bluff Road

Hopkins, South Carolina 29061

Contact: Cynthia Teague
Project: Soil and Vegetation Analysis

Client Sample ID: S-25-12	Project: WNUC01023
Sample ID: 549629012	Client ID: WNUC010
Matrix: Solid	
Collect Date: 13-JUL-21 10:36	
Receive Date: 14-JUL-21	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg "Dry Weight Corrected"													
Uranium-233/234	U	0.220	+/-0.221	0.351	0.500	pCi/g		MP2	08/07/21	1100	2158332		1
Uranium-235/236	U	0.000	+/-0.0864	0.169	0.500	pCi/g							
Uranium-238		0.481	+/-0.201	0.171	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.0621	+/-0.266	0.472	1.00	pCi/g		JJ3	07/25/21	2311	2150573		2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXB7	07/14/21	1744	2150374

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Uranium-232 Tracer	Alphaspec U, Soil/Veg "Dry Weight Corrected"			99	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			96.2	(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: August 11, 2021

Company : Westinghouse Electric Company
Address : 5801 Bluff Road

Hopkins, South Carolina 29061

Contact: Cynthia Teague
Project: Soil and Vegetation Analysis

Client Sample ID: S-26-13 Project: WNUC01023
Sample ID: 549629013 Client ID: WNUC010
Matrix: Solid
Collect Date: 13-JUL-21 09:43
Receive Date: 14-JUL-21
Collector: Client
Moisture: 11.8%

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg "Dry Weight Corrected"													
Uranium-233/234		1.18	+/-0.337	0.353	0.500	pCi/g		MP2	08/07/21	1100	2158332		1
Uranium-235/236	U	0.0429	+/-0.168	0.309	0.500	pCi/g							
Uranium-238		1.42	+/-0.319	0.166	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	0.0111	+/-0.269	0.471	1.00	pCi/g		JJ3	07/26/21	0014	2150573		2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXB7	07/14/21	1744	2150374

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Uranium-232 Tracer	Alphaspec U, Soil/Veg "Dry Weight Corrected"			96.7	(15%-125%)
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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Certificate of Analysis

Report Date: August 11, 2021

Company : Westinghouse Electric Company
Address : 5801 Bluff Road

Hopkins, South Carolina 29061

Contact: Cynthia Teague
Project: Soil and Vegetation Analysis

Client Sample ID: S-26-14	Project: WNUC01023
Sample ID: 549629014	Client ID: WNUC010
Matrix: Solid	
Collect Date: 13-JUL-21 10:40	
Receive Date: 14-JUL-21	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg "Dry Weight Corrected"													
Uranium-233/234		3.63	+/-0.525	0.394	0.500	pCi/g			MP2	08/07/21	1100	2158332	1
Uranium-235/236	U	0.225	+/-0.184	0.252	0.500	pCi/g							
Uranium-238		3.07	+/-0.463	0.268	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.0598	+/-0.275	0.487	1.00	pCi/g			JJ3	07/26/21	0231	2150573	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXB7	07/14/21	1744	2150374

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Uranium-232 Tracer	Alphaspec U, Soil/Veg "Dry Weight Corrected"			98.9	(15%-125%)
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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Certificate of Analysis

Report Date: August 11, 2021

Company : Westinghouse Electric Company
Address : 5801 Bluff Road

Hopkins, South Carolina 29061

Contact: Cynthia Teague
Project: Soil and Vegetation Analysis

Client Sample ID: S-26-15	Project: WNUC01023
Sample ID: 549629015	Client ID: WNUC010
Matrix: Solid	
Collect Date: 13-JUL-21 10:42	
Receive Date: 14-JUL-21	
Collector: Client	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Soil/Veg "Dry Weight Corrected"													
Uranium-233/234		0.922	+/-0.325	0.387	0.500	pCi/g		MP2	08/07/21	1100	2158332		1
Uranium-235/236	U	0.000	+/-0.138	0.274	0.500	pCi/g							
Uranium-238		1.24	+/-0.313	0.221	0.500	pCi/g							
Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Soil "As Received"													
Technetium-99	U	-0.0238	+/-0.276	0.486	1.00	pCi/g		JJ3	07/26/21	0334	2150573		2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXB7	07/14/21	1744	2150374

The following Analytical Methods were performed:

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

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Uranium-232 Tracer	Alphaspec U, Soil/Veg "Dry Weight Corrected"			93.5	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Soil "As Received"			94.8	(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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QC Summary

Report Date: August 11, 2021

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Westinghouse Electric Company

5801 Bluff Road
Hopkins, South Carolina

Contact: Cynthia Teague

Workorder: 549629

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS											
Batch	2155277										
QC1204872881	LCS										
1,1,1-Trichloroethane	50.0			44.2	ug/kg		88	(71%-131%)	JM6	07/27/21	09:22
1,1,2,2-Tetrachloroethane	50.0			42.5	ug/kg		85	(69%-123%)			
1,1,2-Trichloroethane	50.0			42.7	ug/kg		85	(73%-117%)			
1,1-Dichloroethane	50.0			44.1	ug/kg		88	(72%-121%)			
1,1-Dichloroethylene	50.0			37.9	ug/kg		76	(68%-128%)			
1,2,3-Trichlorobenzene	50.0			47.0	ug/kg		94	(68%-124%)			
1,2,4-Trichlorobenzene	50.0			48.2	ug/kg		96	(66%-128%)			
1,2-Dibromo-3-chloropropane	50.0			34.7	ug/kg		69	(61%-134%)			
1,2-Dibromoethane	50.0			43.8	ug/kg		88	(76%-122%)			
1,2-Dichlorobenzene	50.0			48.7	ug/kg		97	(73%-116%)			
1,2-Dichloroethane	50.0			43.1	ug/kg		86	(66%-119%)			
1,2-Dichloropropane	50.0			43.8	ug/kg		88	(71%-120%)			
1,3-Dichlorobenzene	50.0			49.5	ug/kg		99	(71%-120%)			
1,4-Dichlorobenzene	50.0			49.1	ug/kg		98	(71%-113%)			

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QC Summary

Workorder: 549629

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS											
Batch	2155277										
2-Butanone	250			203	ug/kg		81	(61%-134%)	JM6	07/27/21	09:22
2-Hexanone	250			245	ug/kg		98	(58%-146%)			
4-Methyl-2-pentanone	250			222	ug/kg		89	(65%-126%)			
Acetone	250			202	ug/kg		81	(60%-138%)			
Benzene	50.0			44.6	ug/kg		89	(71%-120%)			
Bromochloromethane	50.0			43.8	ug/kg		88	(73%-123%)			
Bromodichloromethane	50.0			44.7	ug/kg		89	(72%-130%)			
Bromoform	50.0			34.7	ug/kg		69	(65%-134%)			
Bromomethane	50.0			52.3	ug/kg		105	(61%-138%)			
Carbon disulfide	250			258	ug/kg		103	(68%-133%)			
Carbon tetrachloride	50.0			47.6	ug/kg		95	(70%-136%)			
Chlorobenzene	50.0			46.8	ug/kg		94	(73%-118%)			
Chloroethane	50.0			43.4	ug/kg		87	(67%-125%)			
Chloroform	50.0			43.3	ug/kg		87	(75%-124%)			
Chloromethane	50.0			51.8	ug/kg		104	(55%-131%)			

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QC Summary

Workorder: 549629

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS											
Batch	2155277										
Cyclohexane	50.0			45.5	ug/kg		91	(63%-128%)	JM6	07/27/21	09:22
Dibromochloromethane	50.0			42.0	ug/kg		84	(72%-130%)			
Dichlorodifluoromethane	50.0			55.9	ug/kg		112	(48%-156%)			
Ethylbenzene	50.0			51.9	ug/kg		104	(71%-118%)			
Isopropylbenzene	50.0			51.1	ug/kg		102	(70%-122%)			
Methyl acetate	250			223	ug/kg		89	(61%-134%)			
Methylcyclohexane	50.0			49.4	ug/kg		99	(65%-127%)			
Methylene chloride	50.0			41.3	ug/kg		83	(70%-120%)			
Styrene	50.0			53.2	ug/kg		106	(72%-124%)			
Tetrachloroethylene	50.0			51.4	ug/kg		103	(70%-125%)			
Toluene	50.0			47.5	ug/kg		95	(71%-119%)			
Trichloroethylene	50.0			45.6	ug/kg		91	(72%-117%)			
Trichlorofluoromethane	50.0			51.4	ug/kg		103	(65%-131%)			
Vinyl chloride	50.0			60.2	ug/kg		120	(64%-132%)			
cis-1,2-Dichloroethylene	50.0			40.3	ug/kg		81	(71%-124%)			

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QC Summary

Workorder: 549629

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS											
Batch	2155277										
cis-1,3-Dichloropropylene	50.0			42.4	ug/kg		85	(74%-129%)	JM6	07/27/21	09:22
m,p-Xylenes	100			107	ug/kg		107	(71%-120%)			
o-Xylene	50.0			52.4	ug/kg		105	(71%-122%)			
tert-Butyl methyl ether	50.0			36.6	ug/kg		73	(64%-130%)			
trans-1,2-Dichloroethylene	50.0			39.0	ug/kg		78	(71%-122%)			
trans-1,3-Dichloropropylene	50.0			42.8	ug/kg		86	(74%-125%)			
**1,2-Dichloroethane-d4	50.0			45.2	ug/L		90	(76%-127%)			
**Bromofluorobenzene	50.0			44.6	ug/L		89	(70%-130%)			
**Toluene-d8	50.0			52.0	ug/L		104	(81%-120%)			
QC1204880614 LCS											
1,1,1-Trichloroethane	50.0			45.9	ug/kg		92	(71%-131%)		07/28/21	22:17
1,1,2,2-Tetrachloroethane	50.0			46.0	ug/kg		92	(69%-123%)			
1,1,2-Trichloroethane	50.0			44.9	ug/kg		90	(73%-117%)			
1,1-Dichloroethane	50.0			44.5	ug/kg		89	(72%-121%)			
1,1-Dichloroethylene	50.0			38.2	ug/kg		76	(68%-128%)			
1,2,3-Trichlorobenzene	50.0			47.9	ug/kg		96	(68%-124%)			

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QC Summary

Workorder: 549629

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS											
Batch	2155277										
1,2,4-Trichlorobenzene	50.0			47.0	ug/kg		94	(66%-128%)	JM6	07/28/21	22:17
1,2-Dibromo-3-chloropropane	50.0			42.3	ug/kg		85	(61%-134%)			
1,2-Dibromoethane	50.0			48.7	ug/kg		97	(76%-122%)			
1,2-Dichlorobenzene	50.0			48.4	ug/kg		97	(73%-116%)			
1,2-Dichloroethane	50.0			46.4	ug/kg		93	(66%-119%)			
1,2-Dichloropropane	50.0			44.0	ug/kg		88	(71%-120%)			
1,3-Dichlorobenzene	50.0			47.5	ug/kg		95	(71%-120%)			
1,4-Dichlorobenzene	50.0			47.0	ug/kg		94	(71%-113%)			
2-Butanone	250			241	ug/kg		96	(61%-134%)			
2-Hexanone	250			263	ug/kg		105	(58%-146%)			
4-Methyl-2-pentanone	250			254	ug/kg		102	(65%-126%)			
Acetone	250			241	ug/kg		96	(60%-138%)			
Benzene	50.0			44.7	ug/kg		89	(71%-120%)			
Bromochloromethane	50.0			49.5	ug/kg		99	(73%-123%)			
Bromodichloromethane	50.0			47.3	ug/kg		95	(72%-130%)			

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QC Summary

Workorder: 549629

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<u>Parmname</u>	<u>NOM</u>	<u>Sample</u>	<u>Qual</u>	<u>QC</u>	<u>Units</u>	<u>RPD%</u>	<u>REC%</u>	<u>Range</u>	<u>Anlst</u>	<u>Date</u>	<u>Time</u>
Volatile-GC/MS											
Batch	2155277										
Bromoform	50.0			41.9	ug/kg		84	(65%-134%)	JM6	07/28/21	22:17
Bromomethane	50.0			49.5	ug/kg		99	(61%-138%)			
Carbon disulfide	250			260	ug/kg		104	(68%-133%)			
Carbon tetrachloride	50.0			49.3	ug/kg		99	(70%-136%)			
Chlorobenzene	50.0			46.1	ug/kg		92	(73%-118%)			
Chloroethane	50.0			35.8	ug/kg		72	(67%-125%)			
Chloroform	50.0			45.2	ug/kg		90	(75%-124%)			
Chloromethane	50.0			37.7	ug/kg		75	(55%-131%)			
Cyclohexane	50.0			43.3	ug/kg		87	(63%-128%)			
Dibromochloromethane	50.0			46.2	ug/kg		92	(72%-130%)			
Dichlorodifluoromethane	50.0			50.6	ug/kg		101	(48%-156%)			
Ethylbenzene	50.0			47.7	ug/kg		95	(71%-118%)			
Isopropylbenzene	50.0			47.8	ug/kg		96	(70%-122%)			
Methyl acetate	250			259	ug/kg		104	(61%-134%)			
Methylcyclohexane	50.0			45.3	ug/kg		91	(65%-127%)			

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QC Summary

Workorder: 549629

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS											
Batch	2155277										
Methylene chloride	50.0			44.1	ug/kg		88	(70%-120%)	JM6	07/28/21	22:17
Styrene	50.0			50.8	ug/kg		102	(72%-124%)			
Tetrachloroethylene	50.0			49.3	ug/kg		99	(70%-125%)			
Toluene	50.0			44.9	ug/kg		90	(71%-119%)			
Trichloroethylene	50.0			44.6	ug/kg		89	(72%-117%)			
Trichlorofluoromethane	50.0			42.6	ug/kg		85	(65%-131%)			
Vinyl chloride	50.0			41.4	ug/kg		83	(64%-132%)			
cis-1,2-Dichloroethylene	50.0			41.3	ug/kg		83	(71%-124%)			
cis-1,3-Dichloropropylene	50.0			44.0	ug/kg		88	(74%-129%)			
m,p-Xylenes	100			99.5	ug/kg		100	(71%-120%)			
o-Xylene	50.0			49.1	ug/kg		98	(71%-122%)			
tert-Butyl methyl ether	50.0			42.6	ug/kg		85	(64%-130%)			
trans-1,2-Dichloroethylene	50.0			39.1	ug/kg		78	(71%-122%)			
trans-1,3-Dichloropropylene	50.0			44.2	ug/kg		88	(74%-125%)			
**1,2-Dichloroethane-d4	50.0			47.1	ug/L		94	(76%-127%)			

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QC Summary

Workorder: 549629

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS											
Batch	2155277										
**Bromofluorobenzene	50.0			44.3	ug/L		89	(70%-130%)	JM6	07/28/21	22:17
**Toluene-d8	50.0			50.2	ug/L		100	(81%-120%)			
QC1204872898 LCSD											
1,1,1-Trichloroethane	50.0			42.2	ug/kg	5	84	(0%-20%)		07/27/21	09:47
1,1,2,2-Tetrachloroethane	50.0			41.6	ug/kg	2	83	(0%-20%)			
1,1,2-Trichloroethane	50.0			40.9	ug/kg	4	82	(0%-20%)			
1,1-Dichloroethane	50.0			42.1	ug/kg	5	84	(0%-20%)			
1,1-Dichloroethylene	50.0			34.9	ug/kg	8	70	(0%-20%)			
1,2,3-Trichlorobenzene	50.0			41.9	ug/kg	11	84	(0%-20%)			
1,2,4-Trichlorobenzene	50.0			43.0	ug/kg	11	86	(0%-20%)			
1,2-Dibromo-3-chloropropane	50.0			33.8	ug/kg	3	68	(0%-20%)			
1,2-Dibromoethane	50.0			42.2	ug/kg	4	84	(0%-20%)			
1,2-Dichlorobenzene	50.0			44.8	ug/kg	8	90	(0%-20%)			
1,2-Dichloroethane	50.0			41.5	ug/kg	4	83	(0%-20%)			
1,2-Dichloropropane	50.0			41.4	ug/kg	6	83	(0%-20%)			
1,3-Dichlorobenzene	50.0			45.5	ug/kg	8	91	(0%-20%)			

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QC Summary

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS											
Batch	2155277										
1,4-Dichlorobenzene	50.0			44.9	ug/kg	9	90	(0%-20%)	JM6	07/27/21	09:47
2-Butanone	250			201	ug/kg	1	80	(0%-20%)			
2-Hexanone	250			238	ug/kg	3	95	(0%-20%)			
4-Methyl-2-pentanone	250			220	ug/kg	1	88	(0%-20%)			
Acetone	250			197	ug/kg	2	79	(0%-20%)			
Benzene	50.0			42.2	ug/kg	6	84	(0%-20%)			
Bromochloromethane	50.0			42.1	ug/kg	4	84	(0%-20%)			
Bromodichloromethane	50.0			42.9	ug/kg	4	86	(0%-20%)			
Bromoform	50.0			35.1	ug/kg	1	70	(0%-20%)			
Bromomethane	50.0			49.0	ug/kg	7	98	(0%-20%)			
Carbon disulfide	250			235	ug/kg	9	94	(0%-20%)			
Carbon tetrachloride	50.0			45.1	ug/kg	5	90	(0%-20%)			
Chlorobenzene	50.0			43.3	ug/kg	8	87	(0%-20%)			
Chloroethane	50.0			39.2	ug/kg	10	78	(0%-20%)			
Chloroform	50.0			41.3	ug/kg	5	83	(0%-20%)			

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QC Summary

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS											
Batch	2155277										
Chloromethane	50.0			45.7	ug/kg	13	91	(0%-20%)	JM6	07/27/21	09:47
Cyclohexane	50.0			41.4	ug/kg	10	83	(0%-20%)			
Dibromochloromethane	50.0			40.4	ug/kg	4	81	(0%-20%)			
Dichlorodifluoromethane	50.0			49.4	ug/kg	12	99	(0%-20%)			
Ethylbenzene	50.0			47.4	ug/kg	9	95	(0%-20%)			
Isopropylbenzene	50.0			47.3	ug/kg	8	95	(0%-20%)			
Methyl acetate	250			217	ug/kg	3	87	(0%-20%)			
Methylcyclohexane	50.0			44.7	ug/kg	10	89	(0%-20%)			
Methylene chloride	50.0			39.3	ug/kg	5	79	(0%-20%)			
Styrene	50.0			48.6	ug/kg	9	97	(0%-20%)			
Tetrachloroethylene	50.0			46.7	ug/kg	10	93	(0%-20%)			
Toluene	50.0			44.3	ug/kg	7	89	(0%-20%)			
Trichloroethylene	50.0			42.6	ug/kg	7	85	(0%-20%)			
Trichlorofluoromethane	50.0			45.9	ug/kg	11	92	(0%-20%)			
Vinyl chloride	50.0			53.0	ug/kg	13	106	(0%-20%)			

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QC Summary

Workorder: 549629

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS											
Batch	2155277										
cis-1,2-Dichloroethylene	50.0			38.6	ug/kg	5	77	(0%-20%)	JM6	07/27/21	09:47
cis-1,3-Dichloropropylene	50.0			40.4	ug/kg	5	81	(0%-20%)			
m,p-Xylenes	100			98.0	ug/kg	9	98	(0%-20%)			
o-Xylene	50.0			48.1	ug/kg	9	96	(0%-20%)			
tert-Butyl methyl ether	50.0			35.9	ug/kg	2	72	(0%-20%)			
trans-1,2-Dichloroethylene	50.0			37.1	ug/kg	5	74	(0%-20%)			
trans-1,3-Dichloropropylene	50.0			40.6	ug/kg	5	81	(0%-20%)			
**1,2-Dichloroethane-d4	50.0			45.4	ug/L		91	(76%-127%)			
**Bromofluorobenzene	50.0			44.5	ug/L		89	(70%-130%)			
**Toluene-d8	50.0			51.2	ug/L		102	(81%-120%)			
QC1204872882 MB											
1,1,1-Trichloroethane			U	ND	ug/kg					07/27/21	11:28
1,1,2,2-Tetrachloroethane			U	ND	ug/kg						
1,1,2-Trichloroethane			U	ND	ug/kg						
1,1-Dichloroethane			U	ND	ug/kg						
1,1-Dichloroethylene			U	ND	ug/kg						

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QC Summary

Workorder: 549629

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS											
Batch	2155277										
1,2,3-Trichlorobenzene			U	ND	ug/kg				JM6	07/27/21	11:28
1,2,4-Trichlorobenzene			U	ND	ug/kg						
1,2-Dibromo-3-chloropropane			U	ND	ug/kg						
1,2-Dibromoethane			U	ND	ug/kg						
1,2-Dichlorobenzene			U	ND	ug/kg						
1,2-Dichloroethane			U	ND	ug/kg						
1,2-Dichloropropane			U	ND	ug/kg						
1,3-Dichlorobenzene			U	ND	ug/kg						
1,4-Dichlorobenzene			U	ND	ug/kg						
1,4-Dioxane			U	ND	ug/kg						
2-Butanone			U	ND	ug/kg						
2-Hexanone			U	ND	ug/kg						
4-Methyl-2-pentanone			U	ND	ug/kg						
Acetone			U	ND	ug/kg						
Benzene			U	ND	ug/kg						

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Parname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS											
Batch	2155277										
Bromochloromethane			U	ND	ug/kg				JM6	07/27/21	11:28
Bromodichloromethane			U	ND	ug/kg						
Bromoform			U	ND	ug/kg						
Bromomethane			U	ND	ug/kg						
Carbon disulfide			U	ND	ug/kg						
Carbon tetrachloride			U	ND	ug/kg						
Chlorobenzene			U	ND	ug/kg						
Chloroethane			U	ND	ug/kg						
Chloroform			U	ND	ug/kg						
Chloromethane			U	ND	ug/kg						
Cyclohexane			U	ND	ug/kg						
Dibromochloromethane			U	ND	ug/kg						
Dichlorodifluoromethane			U	ND	ug/kg						
Ethylbenzene			U	ND	ug/kg						
Isopropylbenzene			U	ND	ug/kg						

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QC Summary

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS											
Batch	2155277										
Methyl acetate			U	ND	ug/kg				JM6	07/27/21	11:28
Methylcyclohexane			U	ND	ug/kg						
Methylene chloride			U	ND	ug/kg						
Styrene			U	ND	ug/kg						
Tetrachloroethylene			U	ND	ug/kg						
Toluene			U	ND	ug/kg						
Trichloroethylene			U	ND	ug/kg						
Trichlorofluoromethane			U	ND	ug/kg						
Trichlorotrifluoroethane			U	ND	ug/kg						
Vinyl chloride			U	ND	ug/kg						
cis-1,2-Dichloroethylene			U	ND	ug/kg						
cis-1,3-Dichloropropylene			U	ND	ug/kg						
m,p-Xylenes			U	ND	ug/kg						
o-Xylene			U	ND	ug/kg						
tert-Butyl methyl ether			U	ND	ug/kg						

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QC Summary

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS											
Batch	2155277										
trans-1,2-Dichloroethylene			U	ND	ug/kg				JM6	07/27/21	11:28
trans-1,3-Dichloropropylene			U	ND	ug/kg						
**1,2-Dichloroethane-d4	50.0			47.1	ug/L		94	(76%-127%)			
**Bromofluorobenzene	50.0			46.7	ug/L		93	(70%-130%)			
**Toluene-d8	50.0			51.4	ug/L		103	(81%-120%)			
QC1204872883 MB											
1,1,1-Trichloroethane			U	ND	ug/kg					07/28/21	23:57
1,1,2,2-Tetrachloroethane			U	ND	ug/kg						
1,1,2-Trichloroethane			U	ND	ug/kg						
1,1-Dichloroethane			U	ND	ug/kg						
1,1-Dichloroethylene			U	ND	ug/kg						
1,2,3-Trichlorobenzene			U	ND	ug/kg						
1,2,4-Trichlorobenzene			U	ND	ug/kg						
1,2-Dibromo-3-chloropropane			U	ND	ug/kg						
1,2-Dibromoethane			U	ND	ug/kg						
1,2-Dichlorobenzene			U	ND	ug/kg						

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QC Summary

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Parname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS											
Batch	2155277										
1,2-Dichloroethane			U	ND	ug/kg				JM6	07/28/21	23:57
1,2-Dichloropropane			U	ND	ug/kg						
1,3-Dichlorobenzene			U	ND	ug/kg						
1,4-Dichlorobenzene			U	ND	ug/kg						
1,4-Dioxane			U	ND	ug/kg						
2-Butanone			U	ND	ug/kg						
2-Hexanone			U	ND	ug/kg						
4-Methyl-2-pentanone			U	ND	ug/kg						
Acetone			U	ND	ug/kg						
Benzene			U	ND	ug/kg						
Bromochloromethane			U	ND	ug/kg						
Bromodichloromethane			U	ND	ug/kg						
Bromoform			U	ND	ug/kg						
Bromomethane			U	ND	ug/kg						
Carbon disulfide			U	ND	ug/kg						

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QC Summary

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS											
Batch	2155277										
Carbon tetrachloride			U	ND	ug/kg				JM6	07/28/21	23:57
Chlorobenzene			U	ND	ug/kg						
Chloroethane			U	ND	ug/kg						
Chloroform			U	ND	ug/kg						
Chloromethane			U	ND	ug/kg						
Cyclohexane			U	ND	ug/kg						
Dibromochloromethane			U	ND	ug/kg						
Dichlorodifluoromethane			U	ND	ug/kg						
Ethylbenzene			U	ND	ug/kg						
Isopropylbenzene			U	ND	ug/kg						
Methyl acetate			U	ND	ug/kg						
Methylcyclohexane			U	ND	ug/kg						
Methylene chloride			U	ND	ug/kg						
Styrene			U	ND	ug/kg						
Tetrachloroethylene			U	ND	ug/kg						

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QC Summary

Workorder: 549629

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS											
Batch	2155277										
Toluene			U	ND	ug/kg				JM6	07/28/21	23:57
Trichloroethylene			U	ND	ug/kg						
Trichlorofluoromethane			U	ND	ug/kg						
Trichlorotrifluoroethane			U	ND	ug/kg						
Vinyl chloride			U	ND	ug/kg						
cis-1,2-Dichloroethylene			U	ND	ug/kg						
cis-1,3-Dichloropropylene			U	ND	ug/kg						
m,p-Xylenes			U	ND	ug/kg						
o-Xylene			U	ND	ug/kg						
tert-Butyl methyl ether			U	ND	ug/kg						
trans-1,2-Dichloroethylene			U	ND	ug/kg						
trans-1,3-Dichloropropylene			U	ND	ug/kg						
**1,2-Dichloroethane-d4	50.0			45.4	ug/L		91	(76%-127%)			
**Bromofluorobenzene	50.0			44.4	ug/L		89	(70%-130%)			
**Toluene-d8	50.0			48.4	ug/L		97	(81%-120%)			

Notes:

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QC Summary

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
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The Qualifiers in this report are defined as follows:

- ** Analyte is a surrogate compound
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B The target analyte was detected in the associated blank.
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- E Concentration of the target analyte exceeds the instrument calibration range
- H Analytical holding time was exceeded
- J See case narrative for an explanation
- J Value is estimated
- JNX Non Calibrated Compound
- N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
- N Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
- N/A RPD or %Recovery limits do not apply.
- 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
- P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, the difference is >70%.
- 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.
- UJ Compound cannot be extracted
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- Y QC Samples were not spiked with this compound
- ^ 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.

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QC Summary

Report Date: August 11, 2021

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Westinghouse Electric Company
5801 Bluff Road
Hopkins, South Carolina

Contact: Cynthia Teague

Workorder: 549629

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Alpha Spec											
Batch	2158332										
QC1204879127	549629001		DUP								
Uranium-233/234		1.78		0.994	pCi/g	56.6		(0% - 100%)	MP2	08/09/21	12:35
	Uncertainty	+/-0.615		+/-0.597							
Uranium-235/236	U	0.0716	U	0.181	pCi/g	N/A		N/A			
	Uncertainty	+/-0.212		+/-0.266							
Uranium-238		1.85		1.24	pCi/g	39.6		(0% - 100%)			
	Uncertainty	+/-0.562		+/-0.531							
QC1204879128	LCS										
Uranium-233/234				24.0	pCi/g					08/07/21	11:00
	Uncertainty			+/-1.32							
Uranium-235/236				0.967	pCi/g						
	Uncertainty			+/-0.306							
Uranium-238	24.8			24.6	pCi/g		99.2	(75%-125%)			
	Uncertainty			+/-1.33							
QC1204879126	MB										
Uranium-233/234			U	-0.211	pCi/g					08/07/21	11:00
	Uncertainty			+/-0.167							
Uranium-235/236			U	0.0203	pCi/g						
	Uncertainty			+/-0.0888							
Uranium-238			U	-0.0820	pCi/g						
	Uncertainty			+/-0.107							
Rad Liquid Scintillation											
Batch	2150573										
QC1204864062	549628001		DUP								
Technetium-99	U	0.286	U	0.233	pCi/g	N/A		N/A	JJ3	07/26/21	05:39
	Uncertainty	+/-0.328		+/-0.303							
QC1204864063	LCS										
Technetium-99		32.5		29.3	pCi/g		90.4	(75%-125%)		07/26/21	06:41
	Uncertainty			+/-1.73							

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QC Summary

Workorder: 549629

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Liquid Scintillation											
Batch	2150573										
QC1204864061	MB										
Technetium-99			U	-0.116	pCi/g				JJ3	07/26/21	04:36
	Uncertainty			+/-0.246							

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.
- NI 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

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QC Summary

Workorder: 549629

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<u>Parmname</u>	<u>NOM</u>	<u>Sample Qual</u>	<u>QC</u>	<u>Units</u>	<u>RPD%</u>	<u>REC%</u>	<u>Range</u>	<u>Anlst</u>	<u>Date</u>	<u>Time</u>
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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.

Technical Case Narrative
Westinghouse Electric Company PO
SDG #: 549629

GC/MS Volatile

Product: Volatile Organic Compounds (VOC) by Gas Chromatograph/Mass Spectrometer

Analytical Method: SW846 8260D

Analytical Procedure: GL-OA-E-038 REV# 28

Analytical Batch: 2155277

Preparation Method: SW846 5035

Preparation Procedure: GL-OA-E-039 REV# 13

Preparation Batch: 2155274

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
549629001	S-22-1
549629005	S-23-5
549629009	S-24-9
549629011	S-25-11
549629013	S-26-13
1204872881	Laboratory Control Sample (LCS)
1204872882	Method Blank (MB)
1204872883	Method Blank (MB)
1204872898	Laboratory Control Sample Duplicate (LCSD)
1204880614	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on a "dry weight" basis.

Data Summary:

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, with the following exceptions.

Calibration Information

Continuing Calibration Verification Requirements

All Calibration Verification Standards (CCV) did not meet the acceptance criteria as outlined in Method 8260D for samples and the associated QC. However, the method allows for a designated number of outliers dependent on the requested analyte list. This SDG satisfied the 8260D outlier acceptance criteria. The results are reported.

Technical Information

Holding Time Specifications

GEL assigns holding times based on the associated methodology, which assigns the date and time from sample collection or sample receipt. Those holding times expressed in hours are calculated in the ALPHALIMS system. Those holding times expressed as days expire at midnight on the day of expiration. Samples (See Below) were re-analyzed out of holding due to unacceptable recoveries and/or RPD criteria in the initial analysis. The results are qualified accordingly.

Sample	Analyte	Value
549629005 (S-23-5)		Received 14-JUL-21, within holding, analyzed 29-JUL-21, out of holding 27-JUL-21
		Received 14-JUL-21, within holding, prepped 28-JUL-21, out of holding 27-JUL-21
549629013 (S-26-13)		Received 14-JUL-21, within holding, analyzed 29-JUL-21, out of holding 27-JUL-21
		Received 14-JUL-21, within holding, prepped 28-JUL-21, out of holding 27-JUL-21

Sample Dilutions/Methanol Dilutions

Sample 549629013 (S-26-13) required re-analysis due to internal standard failures. The Methanol vial was analyzed and reported because the second water vial was broken. It was analyzed 50X.

	549629
Analyte	013
Several	50X

Sample Re-extraction/Re-analysis

Samples 549629005 (S-23-5) and 549629013 (S-26-13) were re-analyzed due to unacceptable surrogate or internal standard recoveries in the initial analysis. The re-analyses confirmed/and or passed and were reported.

Radiochemistry

Product: Alphaspec U, Soil/Veg

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

Analytical Procedure: GL-RAD-A-011 REV# 28

Analytical Batch: 2158332

Preparation Method: Dry Soil Prep

Preparation Procedure: GL-RAD-A-021 REV# 24

Preparation Batch: 2150374

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
549629001	S-22-1
549629002	S-22-2
549629003	S-22-3
549629004	S-23-4
549629005	S-23-5
549629006	S-23-6
549629007	S-24-7
549629008	S-24-8
549629009	S-24-9
549629010	S-25-10
549629011	S-25-11

549629012	S-25-12
549629013	S-26-13
549629014	S-26-14
549629015	S-26-15
1204879126	Method Blank (MB)
1204879127	549629001(S-22-1) Sample Duplicate (DUP)
1204879128	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on a "dry weight" basis.

Data Summary:

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, with the following exceptions.

Technical Information

Sample Re-prep/Re-analysis

Samples were re-prepped due to low carrier/tracer yield. The re-analysis is being reported.

Recounts

Samples 1204879127 (S-22-1DUP) and 549629001 (S-22-1) were recounted due to high relative percent difference/relative error ratio. The recounts are reported.

Product: Dry Weight

Preparation Method: ASTM D 2216 (Modified)

Preparation Procedure: GL-OA-E-020 REV# 13

Preparation Batch: 2150374

Preparation Method: Dry Soil Prep

Preparation Procedure: GL-RAD-A-021 REV# 24

Preparation Batch: 2150374

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
549629001	S-22-1
549629002	S-22-2
549629003	S-22-3
549629004	S-23-4
549629005	S-23-5
549629006	S-23-6
549629007	S-24-7
549629008	S-24-8
549629009	S-24-9
549629010	S-25-10
549629011	S-25-11
549629012	S-25-12
549629013	S-26-13

549629014	S-26-14
549629015	S-26-15
1204863714	549629001(S-22-1) Sample Duplicate (DUP)

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: 2150573

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
549629001	S-22-1
549629002	S-22-2
549629003	S-22-3
549629004	S-23-4
549629005	S-23-5
549629006	S-23-6
549629007	S-24-7
549629008	S-24-8
549629009	S-24-9
549629010	S-25-10
549629011	S-25-11
549629012	S-25-12
549629013	S-26-13
549629014	S-26-14
549629015	S-26-15
1204864061	Method Blank (MB)
1204864062	549628001(NonSDG) Sample Duplicate (DUP)
1204864063	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.

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.

Page: 1 of 2
 Subject # _____
 CL Quote #: _____
 COC Number (1): _____
 PO Number: 450822910 LNT/1
 GEL Laboratories, LLC
 Chemistry | Radiochemistry | Radiobioassay | Specialty Analytics
 Chain of Custody and Analytical Request
 2040 Savage Road
 Charleston, SC 29407
 Phone: (843) 556-8171
 Fax: (843) 766-1178

Client Name: Westinghouse
 Project/Site Name: Sealand Soil S-22 through S-25
 Address: 5801 Bluff Rd, Hopkins, SC 29061
 Collected By: R. Crews
 Send Results To: rcrew@westinghouse.com

Sample ID	*Date Collected (mm-dd-yy)	*Matrix Collected (Military (thruam))	QC Code (2)	Field Filtered (3)	Sample Matrix (4)	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	
								(7) Known or possible hazards	isotope info			
S-22-1	07-13-21	0910	G		SO		5	X	X			
S-22-2	07-13-21	0950	G		SO		1	X	X			
S-22-3	07-13-21	0953	G		SO		1	X	X			
S-23-4	07-13-21	0930	G		SO		1	X	X			
S-23-5	07-13-21	0959	G		SO		5	X	X			
S-23-6	07-13-21	1011	G		SO		1	X	X			
S-24-7	07-13-21	0935	G		SO		1	X	X			
S-24-8	07-13-21	1015	G		SO		1	X	X			
S-24-9	07-13-21	1019	G		SO		5	X	X			
S-25-10	07-13-21	0938	G		SO		1	X	X			

Chain of Custody Signatures
 Relinquished By (Signed) _____ Date _____ Time _____
 Received by (signed) _____ Date _____ Time _____
 1. R. Crews 7/14/21 1022
 2. SZCWA Loc 7/14/21 1056
 3. M. St... 7/14/21 1625

Additional Remarks:
 For Lab Receiving Use Only: Custody Seal Intact? Yes No Cooler Temp: 2 °C
 TAT Requested: Normal: Rush: _____ Specify: _____
 Fax Results: Yes No
 Select Deliverable: C of A OC Summary Level 1 Level 2 Level 3 Level 4
 Sample Collection Time Zone: Eastern Pacific Mountain Other: _____
 1.) Chain of Custody Number = Client Determined
 2.) QC Codes: N = Normal Sample, TB = Trip Blank, FB = 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=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.) Are there any known or possible hazards associated with these samples?
 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.)

RCRA Metals: As = Arsenic, Hg = Mercury, Ba = Barium, Se = Selenium, Cd = Cadmium, Ag = Silver, Cr = Chromium, MR = Miscellaneous, Pb = Lead, CRCA metals: TSCA Regulated, PCB = Polychlorinated biphenyls

Client Name: Westinghouse
 Project/Site Name: Sealand Soil S-22 through S-26
 Address: 5801 Bluff Rd, Hopkins, SC 29061
 Contacted By: R. Crews
 Phone # 803-312-4171
 Fax # _____
 GEL Work Order Number: 450822910 Lvl 1
 GEL Project Manager: Sam Hogan

Sample ID	Date Collected (non-idustry)	Collected (Military)	QC Code	Field Filtered	Field Sample Matrix	Should this sample be considered:	Total number of containers	Comments
S-25-11	07-13-21	1032	G		SO	Known or possible hazards	5	Note: extra sample is required for sample specific QC
S-25-12	07-13-21	1036	G		SO		1	
S-26-13	07-13-21	0943	G		SO		5	
S-26-14	07-13-21	1040	G		SO		1	
S-26-15	07-13-21	1042	G		SO		1	

Chain of Custody Signatures

Relinquished By (Signed)	Date	Received by (signed)	Date	Time
<u>R. Crews</u>	<u>7/14/21</u>	<u>157 (see location)</u>	<u>7/14/21</u>	<u>10:22</u>
<u>S. Stone</u>	<u>7/14/21</u>	<u>2</u>	<u>7/14/21</u>	<u>10:56</u>
<u>DRP</u>	<u>7/14/21</u>	<u>3</u>	<u>7/14/21</u>	<u>16:25</u>

TAT Requested: Normal: Rush: _____ Specify: _____
 Fax Results: Yes No
 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: 2 °C
 Sample Collection Time Zone: Eastern Pacific Central Mountain Other

1.) Chain of Custody Number = Client Determined
 2.) QC Codes: N = Normal Sample, FB = 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=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urne, 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.) Are there any known or possible hazards associated with these samples?
 Characteristic Hazards: FL = Flammable/Ignitable LW = Listed Waste
 CO = Corrosive (F, K, P and U-listed wastes)
 RE = Reactive Waste code(s): _____
 TSCA Regulated PCB = Polychlorinated biphenyls
 RCRA Metals: As = Arsenic Hg = Mercury
 Ba = Barium Se = Selenium
 Cd = Cadmium Ag = Silver
 Cr = Chromium MR = Miscellaneous
 Pb = Lead RCRA metals
 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.)



Laboratories LLC

SAMPLE RECEIPT & REVIEW FORM

SH

Client: <u>WJMC</u>		SDG/AR/COC/Work Order: <u>549629</u>				
Received By: <u>MLS</u>		Date Received: <u>7.14.21</u>				
Carrier and Tracking Number		Circle Applicable: FedEx Express FedEx Ground UPS Field Services <u>Courier</u> Other				
Suspected Hazard Information		Yes	No			
*If Net Counts > 100cpm on samples not marked "radioactive", 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>CPM</u> /mR/Hr Classified as <u>Rad 1</u> 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: <u>Wet Ice</u> Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: <u>2°C</u>	
4	Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>			Temperature Device Serial #: <u>IR3-19</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 ___	
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 by use of GEL labels?	<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):						

PM (or PMA) review: Initials GTB Date 7/15/21 Page 1 of 1

List of current GEL Certifications as of 11 August 2021

State	Certification
Alabama	42200
Alaska	17-018
Alaska Drinking Water	SC00012
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
Massachusetts PFAS Approv	Letter
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122021-1
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	2019-165
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S. Carolina Radiochem	10120002
Sanitation Districts of L	9255651
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-21-19
Utah NELAP	SC000122021-35
Vermont	VT87156
Virginia NELAP	460202
Washington	C780