

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-22-22

April 5, 2022

Subject: March 2022 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 **March 8, 2022.** The following progress report is for work occurring from **March 1- 31, 2022**:

- (a) Actions during the previous month:
  - Completed the following to support completion of the **RI Report**, **Item 6** of the CA:
    - Conducted soil sampling under two intermodal container storage sheds (S-04 and S-06) removed from the Southern Storage Area Operable Unit.
    - Scheduled a groundwater to surface water conceptual model discussion with DHEC personnel.

- Completed the following to support Cultural Resources Survey Activities:
  - CFFF modified its Cultural Resources Procedures, RA-432 and associated sketch RAS-432-1 to incorporate the recommendations resulting from the cultural resources survey.
  - CFFF extended the fence on the eastern boundary of the Denley Cemetery an additional ten feet as recommended in the cultural resources survey report.
- (b) Results of sampling and tests:

### Soil Sampling Results Under Sheds S-04 and S-06

- On March 4, 2022, Westinghouse conducted systematic soil sampling in accordance with the approved SSA OU Soil Sampling Work Plan in the former footprint of two sheds (S-04 and S-06). Final analytical results were received from the external laboratory in March. 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:

- Ship the last two trailers containing legacy UF<sub>6</sub> cylinders following Nuclear Regulatory Commission (NRC) approval of the Alternate Disposal Request on March 18, 2022.
- Continue working on item #6 of the Consent Agreement, the Remedial Investigation Report.
- Complete draft Baseline Risk Assessment and begin CFFF internal review.
- Revise the draft cultural resources report to include recommendations made by the State Historic Preservation Office (SHPO) & other stakeholders and resubmit the draft for final review by the SHPO.
- Conduct semi-annual groundwater sampling (118 wells).

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

- 55% of the **RI Report** scope is completed.
- 100% of Phase II field work scope completed.
- Currently there are no anticipated delays.

Respectfully,

Monty

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-04 and S-06

## Attachment A

### Soil Sampling Results Under Sheds S-04 and S-06

Tabulated Soil Sampling Results and Sum of Fractions Calculations

Soil Sampling Location Map

GEL Laboratory Results Sampling conducted: March 4, 2022 GEL Work Order: 572654 Report Date: March 22, 2022

## Attachment A

Soil Sampling Results Under Sheds S-04 and S-06

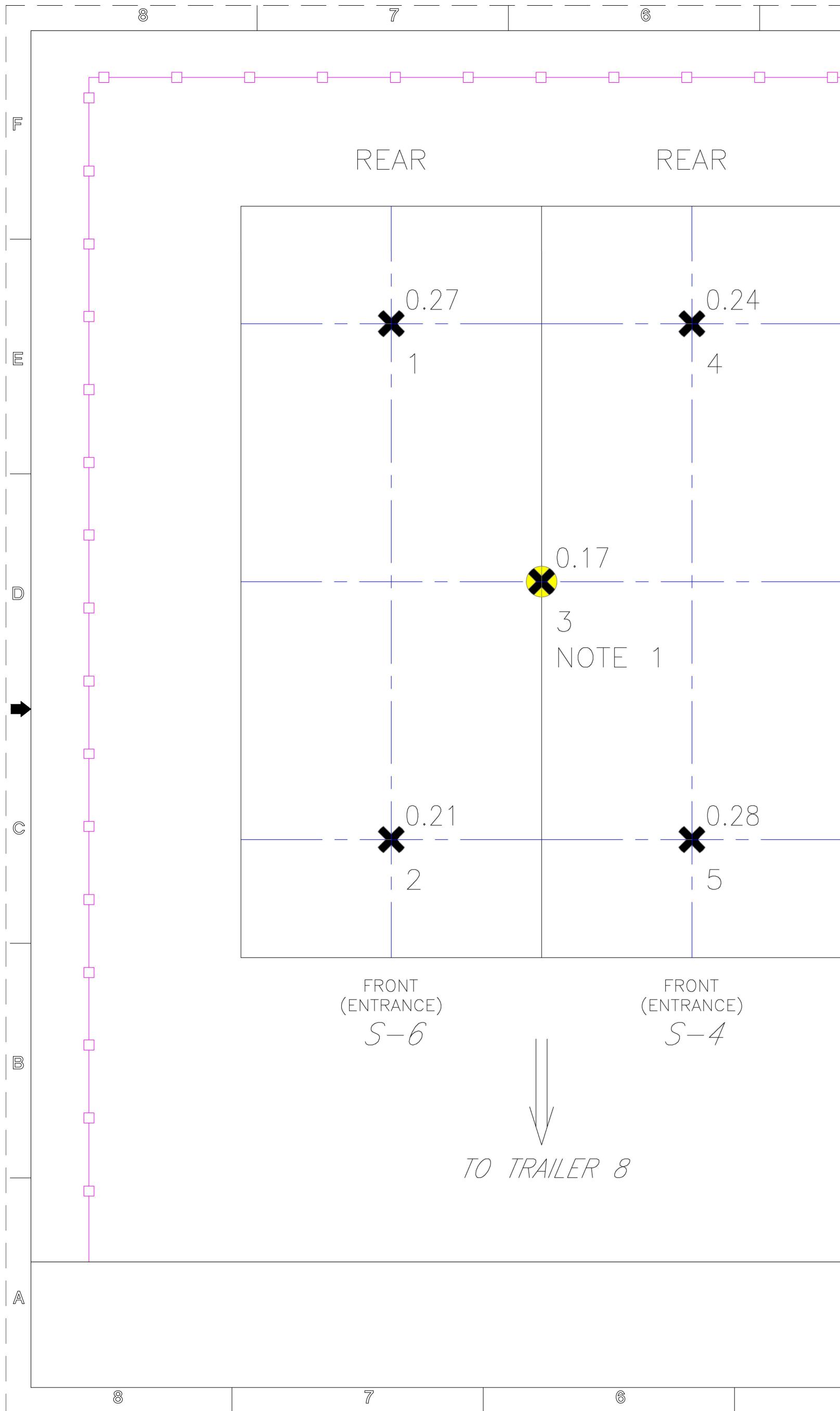
Sample		SOF	SOF								
ID	U-234 U-235 DL U-235 U-238 Sum U Tc-99 DL Tc-99										Ind.
S-6-1	1.68	<	0.231	0.229	1.51	3.42	<	0.734	0	0.27	0.01
S-6-2	1.39	<	0.247	0	1.45	2.84	<	0.771	0	0.21	0.01
S-4/6-3	1.36	<	0.141	0.0471	0.813	2.22	<	0.706	0	0.17	0.01
S-4-4	1.65	<	0.216	0.0984	1.41	3.16	<	0.667	0	0.24	0.01
S-4-5	1.60	<	0.213	0.211	1.86	3.67	<	0.686	0	0.28	0.02

### Notes:

Negative values reflected as zero

All VOC results, including tetrachloroethylene were non-detectable.

Residential Limits in	n Soil (per RA-433)
U234	13 pCi/g
U235	8 pCi/g
U238	14 pCi/g
Tc-99	19 pCi/g
Tetrachloroethylene	0.0023 mg/kg



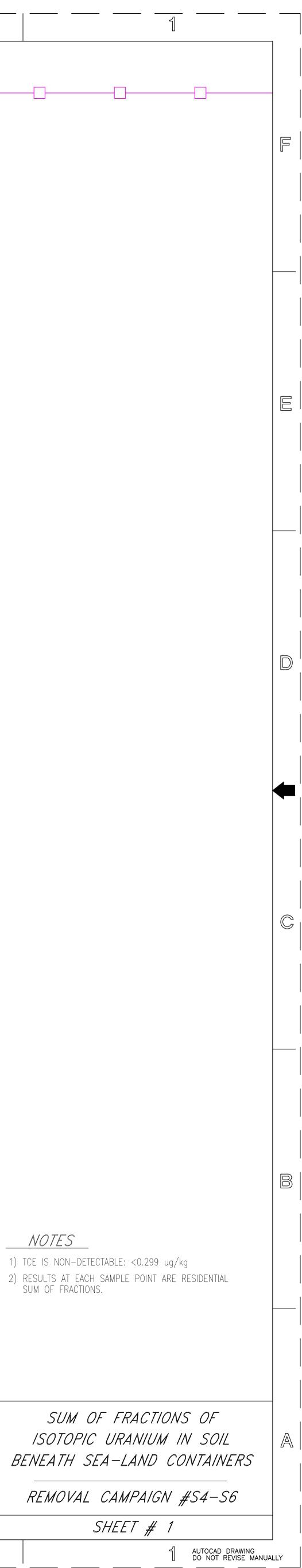
<u> </u>	5	 	3	 

关 BIAS SAMPLE X SYSTEMATIC SAMPLE SYSTEMATIC SAMPLE WITH VOC CONTAMINATED SOIL REMOVED TO 2 FEET DEPTH 5

NOTES

1) TCE IS NON-DETECTABLE: <0.299 ug/kg

		SUM OF FRA ISOTOPIC URA BENEATH SEA-LA
		REMOVAL CAMP
1		SHEET
3	2	





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March 22, 2022

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

Re: Sealand Soil Sampling Work Order: 572654

Dear Ms. Teague:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on March 09, 2022. 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,

clary Stone

Delaney Stone for Samuel Hogan Project Manager

Purchase Order: 4500822910 Ln 1 Enclosures



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### Certificate of Analysis Report for

WNUC010 Westinghouse Electric Company PO (4500822910)

Client SDG: 572654 GEL Work Order: 572654

### 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
- B The target analyte was detected in the associated blank.
- 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.

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.

Pelary Stone

Reviewed by



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# **Analytical Detections Summary**

SDG/Report# 572654 Project ID Sealand		Soil Sampling	Client		Westinghouse Electric Company PO (4500822910)					
GEL ID Client	Sample ID	Method	CAS	Analy	te	Result	Q			
572654001 S-6-1		DOE EML HASL-300, U-02-RC Modified	13968-55-3/1 3966-29-5 7440-61-1		um-233/234 um-238	1.68 pCi/g 1.51 pCi/g				
72654002 S-6-2		DOE EML HASL-300, U-02-RC Modified	13968-55-3/1 3966-29-5	Uranium-233/234		1.39 pCi/g				
			7440-61-1	Uranium-238		1.45 pCi/g				
572654003 S-4/6-3	6	DOE EML HASL-300, U-02-RC Modified	13968-55-3/1 3966-29-5	Uranium-233/234		1.36 pCi/g				
			7440-61-1	Uraniu	um-238	0.813 pCi/g				
572654004 S-4-4		DOE EML HASL-300, U-02-RC Modified	13968-55-3/1 3966-29-5	Uraniu	um-233/234	1.65 pCi/g				
			7440-61-1	Uraniu	um-238	1.41 pCi/g				
572654005 S-4-5		DOE EML HASL-300, U-02-RC Modified	13968-55-3/1 3966-29-5	Uraniu	um-233/234	1.6 pCi/g				
			7440-61-1	Uraniu	um-238	1.86 pCi/g				

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# **Certificate of Analysis**

		Certificate of Analysis									March 22, 2022		
Compan Address	•		stinghouse Electric Drawer R	c Company, LLC					Kej	port Date:	March 22, .	2022	
		Col	umbia, South Caro	lina 29205									
Contact:			Cynthia Teague	lina 27205									
Project:			land Soil Sampling	T									
	1. ID		1 0	>		D	••••		MUNIT	1001000			
	mple ID:						oject:			JC01222			
Sample I	D:		654003			Cli	ient ID	:	WNU	JC010			
Matrix:		Soil											
Collect I	Date:	04-1	MAR-22 09:51										
Receive	Date:	09-1	MAR-22										
Collector		Clie											
Moisture	:	11%	)										
Parameter	Quali	fier	Result	DL	RL	Units	PF	DF	Anal	yst Date	Time Batch	Method	
Volatile Organics	-									-			
SW846 8260D VOC	"Dry Weig	oht C	orrected"										
1,1,1,2-Tetrachloroethane	Digwei	U	ND	0.299	0.898	ug/kg	0.800	1	JM6	03/16/22	1428 2241941	1	
1,1,1-Trichloroethane		U	ND	0.299	0.898	ug/kg	0.800		01110	00/10/22	1120 2211911	-	
1,1,2,2-Tetrachloroethane		U	ND	0.299	0.898	ug/kg	0.800						
1,1,2-Trichloroethane		Ū	ND	0.299	0.898	ug/kg	0.800						
1,1-Dichloroethane		U	ND	0.299	0.898	ug/kg	0.800						
1,1-Dichloroethylene		U	ND	0.299	0.898	ug/kg	0.800	1					
1,2,3-Trichloropropane		U	ND	0.299	0.898	ug/kg	0.800	1					
1,2,4-Trichlorobenzene		U	ND	0.299	0.898	ug/kg	0.800						
1,2-Dibromo-3-chloroprop	ane	U	ND	0.449	0.898	ug/kg	0.800						
1,2-Dibromoethane		U	ND	0.299	0.898	ug/kg	0.800						
1,2-Dichloroethane		U	ND	0.299	0.898	ug/kg	0.800						
1,2-Dichloropropane		U	ND	0.299	0.898	ug/kg	0.800						
2-Butanone		U	ND	1.50	4.49	ug/kg	0.800						
2-Chloro-1,3-butadiene		U	ND	0.299	0.898	ug/kg	0.800						
2-Hexanone		U	ND	1.50	4.49	ug/kg	0.800						
4-Methyl-2-pentanone Acetone		U	ND ND	1.50	4.49	ug/kg	0.800						
Acetonitrile		U U	ND ND	1.50 7.49	4.49 22.5	ug/kg	0.800 0.800						
Acrolein		U	ND	1.50	4.49	ug/kg ug/kg	0.800						
Acrylonitrile		U	ND	1.50	4.49	ug/kg ug/kg	0.800						
Allyl chloride		U	ND	1.50	4.49	ug/kg	0.800						
Benzene		Ŭ	ND	0.299	0.898	ug/kg	0.800						
Bromodichloromethane		Ū	ND	0.299	0.898	ug/kg	0.800						
Bromoform		U	ND	0.299	0.898	ug/kg	0.800						
Bromomethane		U	ND	0.299	0.898	ug/kg	0.800						
Carbon disulfide		U	ND	1.50	4.49	ug/kg	0.800	1					
Carbon tetrachloride		U	ND	0.299	0.898	ug/kg	0.800	1					
Chlorobenzene		U	ND	0.299	0.898	ug/kg	0.800						
Chloroethane		U	ND	0.299	0.898	ug/kg	0.800						
Chloroform		U	ND	0.299	0.898	ug/kg	0.800						
Chloromethane		U	ND	0.299	0.898	ug/kg	0.800						
Dibromochloromethane		U	ND	0.299	0.898	ug/kg	0.800						
Dibromomethane		U	ND	0.299	0.898	ug/kg	0.800						
Dichlorodifluoromethane		U	ND	0.299	0.898	ug/kg	0.800						
Ethyl methacrylate		U	ND ND	1.50	4.49	ug/kg	0.800						
Ethylbenzene		U	ND	0.299	0.898	ug/kg	0.800	1					

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# **Certificate of Analysis**

Report Date: March 22, 2022

Company : Address :	Westinghouse Electric Company, LLC PO Drawer R		
Contact: Project:	Columbia, South Carolina 29205 Ms. Cynthia Teague Sealand Soil Sampling		
Client Sample ID: Sample ID:	S-4/6-3 572654003	Project: Client ID:	WNUC01222 WNUC010

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst Date	Time Batch	Method
Volatile Organics										
SW846 8260D VOC "Dr	y Weight Co	orrected"								
Iodomethane	U	ND	1.50	4.49	ug/kg	g 0.800	1			
Isobutyl alcohol	U	ND	15.0	44.9	ug/kg	g 0.800	1			
Methacrylonitrile	U	ND	1.50	4.49	ug/kg	g 0.800	1			
Methyl methacrylate	U	ND	1.50	4.49	ug/kg	g 0.800	1			
Methylene chloride	U	ND	1.50	4.49	ug/kg	g 0.800	1			
Pentachloroethane	U	ND	1.50	4.49	ug/kg	g 0.800	1			
Propionitrile	U	ND	1.50	4.49	ug/kg	g 0.800	1			
Styrene	U	ND	0.299	0.898	0.					
Tetrachloroethylene	U	ND	0.299	0.898	0.	-				
Toluene	U	ND	0.299	0.898	0.					
Trichloroethylene	U	ND	0.299	0.898	0.					
Trichlorofluoromethane	U	ND	0.299	0.898	0.					
Vinyl acetate	U	ND	1.50	4.49	0.0					
Vinyl chloride	U	ND	0.299	0.898	0.					
Xylenes (total)	U	ND	0.898	2.70	0.0					
bis(2-Chloro-1-methylethyl)eth		ND	1.50	4.49	0.	-				
cis-1,3-Dichloropropylene	U	ND	0.299	0.898	0.0					
trans-1,2-Dichloroethylene	U	ND	0.299	0.898	0.	-				
trans-1,3-Dichloropropylene	U	ND	0.299	0.898	0.	-				
trans-1,4-Dichloro-2-butene	U	ND	1.50	4.49	ug/kg	g 0.800	1			
The following Prep Meth	ods were pe	rformed:								
Method	Description			Analyst	Date		Time	Prep Batch	1	
SW846 5035	5035 Prep			JM6	03/04/2	2	0951	2241938		
The following Analytica	l Methods w	ere performe	d:							
Method	Description					Analys	t Cor	nments		
	SW846 8260D									
Surrogate/Tracer Recover	ry Test				Result	Nomin	al	Recovery%	Acceptable L	imits
1,2-Dichloroethane-d4	SW846	8260D VOC "Dr	y Weight Corrected"		43.1 ug/kg	50	0.0	96	(76%-127%)	)
Bromofluorobenzene	SW846	8260D VOC "Dr	y Weight Corrected"		47.1 ug/kg	50	0.0	105	(70%-130%)	)
Toluene-d8	SW846	8260D VOC "Dr	y Weight Corrected"		44.6 ug/kg	50	0.0	99	(81%-120%)	)

Notes:

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# **Certificate of Analysis**

			Report Date:	March 22, 2022
Company :	Westinghouse Electric Company, LLC			
Address :	PO Drawer R			
	Columbia, South Carolina 29205			
Contact:	Ms. Cynthia Teague			
Project:	Sealand Soil Sampling			
Client Sample ID:	S-4/6-3	Project:	WNUC01222	
Sample ID:	572654003	Client ID:	WNUC010	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF Analyst Date	Time Batch Method
Column headers a	re defined as follo	ws:						
DF: Dilution Factor			Lc/LC: Critical Level					
DL: Detection Lin	nit		PF: Prep Factor					
MDA · Minimum	Detectable Activit	V	RI · Reporting Limit					

MDA: Minimum Detectable Activity MDC: Minimum Detectable Concentration

RL: Reporting Limit SQL: Sample Quantitation Limit

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# **Certificate of Analysis**

					man	UI AIId	ai y 515			Report Date:	March 22,	2022
	Company : Address :		inghouse Drawer R	Electric Compa	any, LLC							
	Contact: Project:	Ms. (	Cynthia T	uth Carolina 29 Feague Sampling	205							
	Client Sample ID:	S-6-1	l				Р	roject:	V	WNUC01222		
	Sample ID:	5726	54001				C	lient ID:	V	WNUC010		
	Matrix:	Soil										
	Collect Date:	04-M	IAR-22 0	9:37								
	Receive Date:	09-N	IAR-22									
	Collector:	Clier	it									
Parameter	Qualit	fior	Docult	Uncertainty	MDC	RL	Units	PF I		Analyst Date	Time Batch	Mathad
	· · · ·	llei	Kesult	Uncertainty	MDC	KL	Units	ГГІ		Analyst Date	Time Batch	Method
	pec Analysis											
Uranium-233/2	J, "Dry Weight Con	rrected	1.68	+/-0.526	0.346	0.500	nCi/a		T	BV1 03/19/22	1104 2239281	1
Uranium-235/2 Uranium-235/2		U	0.229	+/-0.233	0.346	0.500	pCi/g pCi/g		1	BVI 03/19/22	1104 2239281	1
Uranium-238		U	1.51	+/-0.491	0.273	0.500	pCi/g					
Rad Liquid S	Scintillation Analys	is					1 0					
-	Tc99, Soil "As Red											
Technetium-99		U	-0.0556	+/-0.428	0.734	1.00	pCi/g		1	AG2 03/16/22	2222 2239256	2
The following	ng Prep Methods we	ere per	formed:									
Method	Descr	iption				Analyst	Date	Ti	ime	Prep Batch		
Dry Soil Prep			GL-RAD-A	-021		AA1	03/10/22	2 08	815	2239274		
The followi	ng Analytical Meth	ods w	ere perfo	rmed:								
Method	Descri							Analyst (	Com	ments		
1				02-RC Modified								
2	DOE EI	ML HAS	SL-300, Tc	-02-RC Modified								
Surrogate/Tr	acer Recovery	Test					Result	Nominal	[]	Recovery%	Acceptable L	imits
Uranium-232 T				Weight Corrected"						90.8	(15%-125%	
Technetium-99	m Tracer L	iquid So	cint Tc99, S	Soil "As Received"						77.8	(15%-125%	)
<b>Notes:</b> Counting Ur	ncertainty is calcula	ted at	the 95%	confidence level	l (1.96-si	gma).						

Column headers are defined as follows:

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# **Certificate of Analysis**

				Certi	mate	UI Alla	aly 515			Rep	oort Date:	March 22,	2022
	Company : Address :		tinghouse Drawer R	e Electric Compa	any, LLC	2							
	Contact: Project:	Ms.	Cynthia 🛛	uth Carolina 29 Feague Sampling	0205								
	Client Sample ID:	S-6-2	2				Р	roject:		WNU	C01222		
	Sample ID:	572654002 Clien								WNU	C010		
	Matrix:	Soil	Soil										
	Collect Date:	04-N	IAR-22 (	)9:42									
	Receive Date:	09-N	1AR-22										
	Collector:	Clie	nt										
Parameter	Quali	fier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analy	yst Date	Time Batch	Method
	Spec Analysis		1000010		1120	112	emis		21	<u> </u>	50 2 400	Third Dutch	
-	J, "Dry Weight Co	rrected	1"										
Uranium-233/2		meetee	1.39	+/-0.454	0.268	0.500	pCi/g			BV1	03/19/22	1104 223928	l 1
Uranium-235/2	236	U	-0.0214	+/-0.0947	0.247	0.500	pCi/g						
Uranium-238	a		1.45	+/-0.460	0.221	0.500	pCi/g						
-	Scintillation Analys												
	t Tc99, Soil "As Re			0. 445	0 771	1.00	<b>C</b> '/			1.00	02/16/22	2225 222025	
Technetium-99	ng Prep Methods w	U oro po	-0.280	+/-0.445	0.771	1.00	pCi/g			AG2	03/10/22	2325 2239250	5 2
Method		ription				Analyst	Date		Time	. Pi	rep Batch		
Dry Soil Prep			GL-RAD-A	-021		Anaryst	03/10/22		0815		39274		
	ing Analytical Meth	-					00/10/2	-	0010				
Method	Descri		ere perio	inicu.				Analys	t Cor	nment	s		
1			SL-300, U-	02-RC Modified				1 mary c			.5		
2	DOE E	ML HA	SL-300, Tc	-02-RC Modified									
Surrogate/T	racer Recovery	Test					Result	Nomir	nal	Reco	very%	Acceptable L	imits
Uranium-232 T Technetium-99				Weight Corrected" Soil "As Received"							98.8 73.7	(15%-125%) (15%-125%)	
<b>Notes:</b> Counting U	ncertainty is calcula	ited at	the 95%	confidence leve	l (1.96-si	igma).							

Column headers are defined as follows:

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# **Certificate of Analysis**

				Certi	meate		a1y515			Re	oort Date:	March 22,	2022
	Company : Address :		stinghous Drawer R	e Electric Comp	any, LLC	2				-			
	Contact: Project:	Ms	umbia, Sc . Cynthia ' lland Soil l		9205								
	Client Sample ID	): S-4	/6-3				Р	roject:		WNU	JC01222		
	Sample ID:	572	654003				С	lient II	D:	WNU	JC010		
	Matrix:	Soi	1										
	Collect Date:	04-	MAR-22 (	09:51									
	Receive Date:	09-	MAR-22										
	Collector:	Cli	ent										
	Moisture:	119	6										
Parameter	Qua	lifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Anal	yst Date	Time Batch	Method
Rad Alpha	Spec Analysis										, 		
-	U, "Dry Weight C	orrect	ed"										
Uranium-233			1.36	+/-0.476	0.360	0.500	pCi/g			BV1	03/19/22	1104 223928	1 1
Uranium-235		U	0.0471	+/-0.133	0.141	0.500	pCi/g						
Uranium-238 Rod Liquid		voio	0.813	+/-0.370	0.295	0.500	pCi/g						
-	l Scintillation Anal nt Tc99, Soil "As F	•	d"										
Technetium-9		U	-0.00648	+/-0.413	0.706	1.00	pCi/g			AG2	03/17/22	0027 223925	5 2
	ing Prep Methods			.,			r 8						-
Method	• •	criptio				Analyst	Date		Time	e P	rep Batch		
Dry Soil Prep	Dry	Soil Prep	GL-RAD-A	A-021		AA1	03/10/22	2	0815	22	239274		
The follow	ving Analytical Me	thods	were perfo	ormed:									
Method		cription						Analy	st Cor	nmen	ts		
1				-02-RC Modified									
2		EML H	ASL-300, To	e-02-RC Modified									
	Fracer Recovery	Test					Result	Nomi	nal	Reco	very%	Acceptable I	
Uranium-232 Technetium-9				Weight Corrected" Soil "As Received"							90.7 79.8	(15%-125%) (15%-125%)	
<b>Notes:</b> Counting U	Incertainty is calcu	lated a	t the 95%	confidence leve	el (1.96-s	igma).							
Column he	eaders are defined a	as folle	WS:		.1.11								

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# **Certificate of Analysis**

				man	<b>OI AII</b>	a1 y 515			Repor	t Date:	March 22,	2022
Company : Address :		inghouse Prawer R	Electric Compa	any, LLC								
Contact: Project:	Ms. C	nbia, Sou Cynthia Te nd Soil S		205								
Client Sample ID	S-4-4					Р	roject:		WNUC	01222		
Sample ID:	57265	54004				С	lient ID	:	WNUC	010		
Matrix:	Soil											
Collect Date:	04-M	AR-22 10	):08									
Receive Date:	09-M	AR-22										
Collector:	Clien	t										
Parameter Qual	ifian	Decult 1	Uncertainty	MDC	RL	Units	PF	DE	Analyst	Data	Time Batch	Mathad
	mer	Result	Jucentality	MDC	KL	Units	РГ	DF	Anarysi	Date	Time Batch	Method
Rad Alpha Spec Analysis												
Alphaspec U, "Dry Weight Co	orrected		0. 160	0.000	0.500	<b>C</b> :/			DV1 (	2/10/22	1104 000000	1
Uranium-233/234 Uranium-235/236	U	1.65 0.0984	+/-0.460 +/-0.156	0.239 0.216	0.500 0.500	1 0			BV1 (	)3/19/22	1104 2239281	. 1
Uranium-238	U	1.41	+/-0.421	0.175	0.500							
Rad Liquid Scintillation Analy	vsis					1 0						
Liquid Scint Tc99, Soil "As Re		•										
Technetium-99	U	-0.107	+/-0.388	0.667	1.00	pCi/g			AG2 (	03/17/22	0130 2239256	5 2
The following Prep Methods v	vere per	formed:										
¥ .	ription				Analyst	Date		Time	Prep	Batch		
		L-RAD-A-	021		AA1	03/10/22		0815	2239			
The following Analytical Met	hods we	ere perfor	med:									
	ription						Analys	t Con	nments			
			2-RC Modified									
	EML HAS	SL-300, Tc-0	2-RC Modified									
Surrogate/Tracer Recovery	Test					Result	Nomin	al	Recove	ry%	Acceptable L	
			Veight Corrected"						72		(15%-125%	
Technetium-99m Tracer	Liquid Sc	int Tc99, So	il "As Received"						85	.5	(15%-125%	)
<b>Notes:</b> Counting Uncertainty is calcul	ated at t	he 95% c	onfidence level	l (1.96-si	gma).							

Column headers are defined as follows:

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# **Certificate of Analysis**

				mait	OI Alla	a1 y 515			Repo	ort Date:	March 22,	2022
Company : Address :		inghouse I rawer R	Electric Compa	any, LLC								
Contact: Project:	Ms. C	nbia, Sout Cynthia Te nd Soil Sa		205								
Client Sample ID	S-4-5					P	roject:		WNUC	01222		
Sample ID:	57265	54005				С	lient ID	:	WNUC	2010		
Matrix:	Soil											
Collect Date:	04-M	AR-22 10	:17									
Receive Date:		AR-22										
Collector:	Client											
	1 C'	D., 1/ I	T			TT. '			A 1	( D. (	T'	M. (1 1
Parameter Qual	iner	Result U	Incertainty	MDC	RL	Units	PF	DF	Analys	st Date	Time Batch	Method
Rad Alpha Spec Analysis												
Alphaspec U, "Dry Weight Co	prrected'											
Uranium-233/234		1.60	+/-0.497	0.350	0.500	pCi/g			BV1	03/19/22	1104 2239281	1
Uranium-235/236 Uranium-238	U	0.211 1.86	+/-0.215 +/-0.513	0.213 0.172	0.500 0.500	pCi/g pCi/g						
Rad Liquid Scintillation Analy	rsis	1.00	17-0.515	0.172	0.500	pen/g						
Liquid Scint Tc99, Soil "As Re		,										
Technetium-99	U	0.00816	+/-0.401	0.686	1.00	pCi/g			AG2	03/17/22	0345 2239256	2
The following Prep Methods v	-		.,	0.000	1100	Pers				00/1//22	0010 220/200	-
	ription	iorinica.			Analyst	Date	,	Time	Pre	p Batch		
		L-RAD-A-0	)21		AA1	03/10/22		0815		9274		
The following Analytical Met	-											
Method Desc	ription						Analyst	t Con	nments			
1 DOE I	EML HAS	SL-300, U-02	2-RC Modified				2					
2 DOE I	EML HAS	SL-300, Tc-0	2-RC Modified									
Surrogate/Tracer Recovery	Test					Result	Nomin	al	Recov	ery%	Acceptable L	
			eight Corrected"							2.7	(15%-125%)	
Technetium-99m Tracer	Liquid Sci	int Tc99, Soi	il "As Received"						8	0.7	(15%-125%)	
Notes: Counting Uncertainty is calcul		he 95% co	onfidence level	l (1.96-si	igma).							

Column headers are defined as follows:

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# **QC Summary**

Report Date: March 22, 2022

Page 1 of 15

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

Workorder: 572654

**Contact:** 

Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS Batch 2241941										
QC1205042651 LCS 1,1,1,2-Tetrachloroethane	50.0		47.2	ug/kg		94	(75%-126%)	JM6	03/16/22	2 08:35
1,1,1-Trichloroethane	50.0		48.0	ug/kg		96	(71%-131%)			
1,1,2,2-Tetrachloroethane	50.0		54.2	ug/kg		108	(69%-123%)			
1,1,2-Trichloroethane	50.0		49.6	ug/kg		99	(73%-117%)			
1,1-Dichloroethane	50.0		48.5	ug/kg		97	(72%-121%)			
1,1-Dichloroethylene	50.0		43.5	ug/kg		87	(68%-128%)			
1,2,3-Trichloropropane	50.0		52.6	ug/kg		105	(72%-120%)			
1,2,4-Trichlorobenzene	50.0		48.0	ug/kg		96	(66%-128%)			
1,2-Dibromo-3-chloropropane	50.0		44.7	ug/kg		89	(61%-134%)			
1,2-Dibromoethane	50.0		48.5	ug/kg		97	(76%-122%)			
1,2-Dichloroethane	50.0		47.2	ug/kg		94	(66%-119%)			
1,2-Dichloropropane	50.0		51.0	ug/kg		102	(71%-120%)			
2-Butanone	250		234	ug/kg		94	(61%-134%)			
2-Hexanone	250		232	ug/kg		93	(58%-146%)			

				<u>· · · · · · · · · · · · · · · · · · · </u>						
Workorder: 572654										2 of 15
Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Volatile-GC/MSBatch2241941										I
4-Methyl-2-pentanone	250		234	ug/kg		93	(65%-126%)	JM6	03/16/2	22 08:35
Acetone	250	В	243	ug/kg		97	(60%-138%)			
Acetonitrile	1250		1310	ug/kg		105	(56%-124%)			
Benzene	50.0		53.0	ug/kg		106	(71%-120%)			
Bromodichloromethane	50.0		47.3	ug/kg		95	(72%-130%)			
Bromoform	50.0		47.1	ug/kg		94	(65%-134%)			
Bromomethane	50.0		46.5	ug/kg		93	(61%-138%)			
Carbon disulfide	250		258	ug/kg		103	(68%-133%)			
Carbon tetrachloride	50.0		47.9	ug/kg		96	(70%-136%)			
Chlorobenzene	50.0		49.5	ug/kg		99	(73%-118%)			
Chloroethane	50.0		47.1	ug/kg		94	(67%-125%)			
Chloroform	50.0		50.2	ug/kg		100	(75%-124%)			
Chloromethane	50.0		47.8	ug/kg		96	(55%-131%)			
Dibromochloromethane	50.0		43.9	ug/kg		88	(72%-130%)			
Dibromomethane	50.0		51.2	ug/kg		102	(74%-121%)			

Workorder: 572654		<u><u>x</u> •</u>		<u> </u>						
	NOM	Sample Qual					Danga	Anlat		3 of 15
ParmnameVolatile-GC/MSBatch2241941	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Dichlorodifluoromethane	50.0		42.4	ug/kg		85	(48%-156%)	JM6	03/16/2	22 08:35
Ethylbenzene	50.0		50.5	ug/kg		101	(71%-118%)			
Iodomethane	250		253	ug/kg		101	(70%-127%)			
Methylene chloride	50.0		45.6	ug/kg		91	(70%-120%)	i -		
Styrene	50.0		49.4	ug/kg		99	(72%-124%)	1		
Tetrachloroethylene	50.0		47.4	ug/kg		95	(70%-125%)	i		
Toluene	50.0		50.9	ug/kg		102	(71%-119%)	1		
Trichloroethylene	50.0		52.9	ug/kg		106	(72%-117%)	1		
Trichlorofluoromethane	50.0		45.2	ug/kg		90	(65%-131%)	i		
Vinyl acetate	250		213	ug/kg		85	(59%-136%)	i		
Vinyl chloride	50.0		43.6	ug/kg		87	(64%-132%)	i -		
Xylenes (total)	150		154	ug/kg		103	(68%-124%)	i -		
cis-1,3-Dichloropropylene	50.0		47.3	ug/kg		95	(74%-129%)	i		
trans-1,2-Dichloroethylene	50.0		45.9	ug/kg		92	(71%-122%)	1		
trans-1,3-Dichloropropylene	50.0		45.5	ug/kg		91	(74%-125%)	1		

Workordon 550654				<u></u>					
Workorder: 572654									Page 4 of 15
Parmname Volatile-GC/MS	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Batch 2241941									
**1,2-Dichloroethane-d4	50.0		45.9	ug/L		92	(76%-127%)	JM6	03/16/22 08:35
**Bromofluorobenzene	50.0		50.9	ug/L		102	(70%-130%)	)	
**Toluene-d8	50.0		47.7	ug/L		95	(81%-120%)	)	
QC1205042652 MB 1,1,1,2-Tetrachloroethane		U	ND	ug/kg					03/16/22 10:23
1,1,1-Trichloroethane		U	ND	ug/kg					
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-Trichloropropane		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-Dichloroethane		U	ND	ug/kg					
1,2-Dichloropropane		U	ND	ug/kg					

				<u></u>						
Workorder: 572654									Page 5 of	
Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Tin	<u>ne</u>
Volatile-GC/MS Batch 2241941										
2-Butanone		U	ND	ug/kg				JM6	03/16/22 10	):23
2-Chloro-1,3-butadiene		U	ND	ug/kg						
2-Hexanone		U	ND	ug/kg						
4-Methyl-2-pentanone		U	ND	ug/kg						
Acetone		J	3.95	ug/kg						
Acetonitrile		U	ND	ug/kg						
		Ţ	ND.	a						
Acrolein		U	ND	ug/kg						
Acrylonitrile		U	ND	ug/kg						
Actyloniume		U	ΝD	ug/ng						
Allyl chloride		U	ND	ug/kg						
				<b>4</b> 9, <b>1</b> 9						
Benzene		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						
Carbon tetrachloride		U	ND	ug/kg						

Workorder: 572654									Page 6	
Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Date T	l'ime
Volatile-GC/MS Batch 2241941										ļ
Chlorobenzene		U	ND	ug/kg				JM6	03/16/22	10:23
Chloroethane		U	ND	ug/kg						ļ
Chloroemane		0		ug/rg						I
		ŤŢ		a						
Chloroform		U	ND	ug/kg						I
										ļ
Chloromethane		U	ND	ug/kg						ľ
										ļ
Dibromochloromethane		U	ND	ug/kg						ļ
										ļ
Dibromomethane		U	ND	ug/kg						
Dichlorodifluoromethane		U	ND	ug/kg						
Ethyl methacrylate		U	ND	ug/kg						
Ethylbenzene		U	ND	ug/kg						
Luijieuleu				~~6						
Iodomethane		U	ND	יוס/גם						l
Iodomemane		0		ug/kg						I
		ŤŢ	ND	а						l
Isobutyl alcohol		U	ND	ug/kg						l
Methacrylonitrile		U	ND	ug/kg						
Methyl methacrylate		U	ND	ug/kg						
Methylene chloride		U	ND	ug/kg						
Pentachloroethane		U	ND	ug/kg						

Workorder: 572654									_
Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range	Anlst	Page 7 of 15 Date Time
Volatile-GC/MS       Batch     2241941	110111	Sampie Quai	<u></u> vv		<b>NI 1</b> /0	KEC /u	Kange	Allist	
Propionitrile		U	ND	ug/kg				JM6	03/16/22 10:23
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					
Vinyl acetate		U	ND	ug/kg					
Vinyl chloride		U	ND	ug/kg					
Xylenes (total)		U	ND	ug/kg					
bis(2-Chloro-1-methylethyl)ether		U	ND	ug/kg					
cis-1,3-Dichloropropylene		U	ND	ug/kg					
trans-1,2-Dichloroethylene		U	ND	ug/kg					
trans-1,3-Dichloropropylene		U	ND	ug/kg					
trans-1,4-Dichloro-2-butene		U	ND	ug/kg					
**1,2-Dichloroethane-d4	50.0		47.2	ug/L		94	(76%-127%	,)	

Workordon 550(54							
Workorder: 572654							Page 8 of 15
Parmname	NOM	Sample Qual	QC	Units	RPD% REC%	<b>6 Range Anlst</b>	Date Time
Volatile-GC/MSBatch2241941							
**Bromofluorobenzene	50.0		51.0	ug/L	102	(70%-130%) JM6	6 03/16/22 10:23
**Toluene-d8	50.0		49.1	ug/L	98	(81%-120%)	
QC1205042653 572443001 PS			20.0	~	-		
1,1,1,2-Tetrachloroethane	50.0 U	ND	39.3	ug/L	79	(52%-129%)	03/16/22 17:12
			20.0	~			
1,1,1-Trichloroethane	50.0 U	ND	38.2	ug/L	76	(60%-135%)	
		_		_			
1,1,2,2-Tetrachloroethane	50.0 U	ND	55.4	ug/L	111	(53%-130%)	
1,1,2-Trichloroethane	50.0 U	ND	52.3	ug/L	105	(51%-132%)	
		_		_			
1,1-Dichloroethane	50.0 U	ND	45.8	ug/L	92	(62%-124%)	
	0 **		24.0	~			
1,1-Dichloroethylene	50.0 U	ND	34.0	ug/L	68	(53%-136%)	
	<b>7</b> 0 0 II			σ			
1,2,3-Trichloropropane	50.0 U	ND	57.0	ug/L	114	(60%-130%)	
			22.2	σ			
1,2,4-Trichlorobenzene	50.0 U	ND	38.3	ug/L	77	(29%-142%)	
	<b>7</b> 0 0 H			σ			
1,2-Dibromo-3-chloropropane	50.0 U	ND	41.1	ug/L	82	(42%-135%)	
			10 -	~			
1,2-Dibromoethane	50.0 U	ND	48.5	ug/L	97	(55%-129%)	
			15 4	σ			
1,2-Dichloroethane	50.0 U	ND	45.6	ug/L	91	(58%-122%)	
	<b>7</b> 0 0 H		1.5 5	σ			
1,2-Dichloropropane	50.0 U	ND	46.5	ug/L	93	(56%-121%)	
	<b>220 1</b>		221	σ			
2-Butanone	250 U	ND	221	ug/L	88	(36%-139%)	

Workorder: 572654				<u></u>			Page 9 of 15
Parmname	NOM	Sample Qual	QC	Units	RPD% REC%	Range Anlst	Date Time
Volatile-GC/MS Batch 2241941							
2-Hexanone	250 U	ND	231	ug/L	92	(32%-146%) JM6	03/16/22 17:12
4-Methyl-2-pentanone	250 U	ND	245	ug/L	98	(48%-131%)	
Acetone	250 BJ	3.43 B	217	ug/L	86	(33%-148%)	
Acetonitrile	1250 U	ND	961	ug/L	77	(42%-135%)	
Benzene	50.0 U	ND	47.1	ug/L	94	(54%-126%)	
Bromodichloromethane	50.0 U	ND	43.1	ug/L	86	(56%-130%)	
Bromoform	50.0 U	ND	52.5	ug/L	105	(50%-136%)	
Bromomethane	50.0 U	ND	32.0	ug/L	64	(33%-139%)	
Carbon disulfide	250 U	ND	193	ug/L	77	(49%-139%)	
Carbon tetrachloride	50.0 U	ND	37.6	ug/L	75	(51%-138%)	
Chlorobenzene	50.0 U	ND	43.3	ug/L	87	(46%-126%)	
Chloroethane	50.0 U	ND	28.2	ug/L	56	(48%-126%)	
Chloroform	50.0 U	ND	46.7	ug/L	93	(61%-126%)	
Chloromethane	50.0 U	ND	35.4	ug/L	71	(44%-143%)	
Dibromochloromethane	50.0 U	ND	44.3	ug/L	89	(53%-132%)	

Workorder: 572654				<u></u>			Page 10 of 15
Parmname	NOM	Sample Qual	QC	Units F	RPD% REC%	Range Anlst	Date Time
Volatile-GC/MS Batch 2241941		Dampie Law	<u> </u>			Mange Amor	Date Time
Dibromomethane	50.0 U	ND	45.2	ug/L	90	(59%-122%) JM6	03/16/22 17:12
Dichlorodifluoromethane	50.0 U	ND	23.6	ug/L	47	(45%-149%)	
Ethylbenzene	50.0 U	ND	42.7	ug/L	85	(43%-128%)	
Iodomethane	250 U	ND	198	ug/L	79	(50%-135%)	
Methylene chloride	50.0 J	2.02	40.6	ug/L	77	(56%-124%)	
Styrene	50.0 U	ND	39.2	ug/L	78	(39%-132%)	
Tetrachloroethylene	50.0 U	ND	41.9	ug/L	84	(46%-134%)	
Toluene	50.0 J	0.430	50.6	ug/L	100	(52%-127%)	
Trichloroethylene	50.0 U	ND	46.0	ug/L	92	(52%-132%)	
Trichlorofluoromethane	50.0 U	ND	30.0	ug/L	60	(52%-130%)	
Vinyl acetate	250 U	ND	70.0	ug/L	28*	(38%-136%)	
Vinyl chloride	50.0 U	ND	30.0	ug/L	60	(53%-138%)	
Xylenes (total)	150		123	ug/L	82	(40%-132%)	
cis-1,3-Dichloropropylene	50.0 U	ND	42.1	ug/L	84	(49%-133%)	
trans-1,2-Dichloroethylene	50.0 U	ND	41.0	ug/L	82	(54%-126%)	

Workenden 553454				<u></u>				
Workorder: 572654								Page 11 of 15
Parmname Volatile-GC/MS	NOM	Sample Qual	QC	Units	RPD%	REC%	Range Anlst	Date Time
Batch 2241941								
trans-1,3-Dichloropropylene	50.0 U	ND	47.8	ug/L		96	(49%-134%) JM	<b>1</b> 6 03/16/22 17:12
**1,2-Dichloroethane-d4	50.0	46.7	47.9	ug/L		96	(76%-127%)	
**Bromofluorobenzene	50.0	50.6	57.6	ug/L		115	(70%-130%)	
**Toluene-d8	50.0	47.8	52.4	ug/L		105	(81%-120%)	
QC1205042654 572443001 PSD 1,1,1,2-Tetrachloroethane	500 U	ND	41.6		ć	83	(09/ 209/)	02/16/22 17:20
1,1,1,2-1etrachioroethane	50.0 U	ND	41.6	ug/L	6	83	(0%-20%)	03/16/22 17:39
1,1,1-Trichloroethane	50.0 U	ND	42.1	ug/L	10	84	(0%-20%)	
1,1,2,2-Tetrachloroethane	50.0 U	ND	52.3	ug/L	6	105	(0%-20%)	
1,1,2-Trichloroethane	50.0 U	ND	49.3	ug/L	6	99	(0%-20%)	
1,1-Dichloroethane	50.0 U	ND	45.6	ug/L	0	91	(0%-20%)	
1,1-Dichloroethylene	50.0 U	ND	38.4	ug/L	12	77	(0%-20%)	
1,2,3-Trichloropropane	50.0 U	ND	53.0	ug/L	7	106	(0%-20%)	
1,2,4-Trichlorobenzene	50.0 U	ND	33.8	ug/L	13	68	(0%-20%)	
1,2-Dibromo-3-chloropropane	50.0 U	ND	40.8	ug/L	1	82	(0%-20%)	
1,2-Dibromoethane	50.0 U	ND	46.9	ug/L	3	94	(0%-20%)	
1,2-Dichloroethane	50.0 U	ND	45.6	ug/L	0	91	(0%-20%)	

Workorder: 572654			<b>د</b>			<u></u>				Page 12 of 15
Parmname	NOM	(	Sample	Qual	QC	Units	RPD%	REC%	Range Anlst	Date Time
Volatile-GC/MS Batch 2241941										
1,2-Dichloropropane	50.0	U	ND		47.0	ug/L	1	94	(0%-20%) JM6	6 03/16/22 17:39
2-Butanone	250	U	ND		224	ug/L	1	90	(0%-20%)	
2-Hexanone	250	U	ND		233	ug/L	1	93	(0%-20%)	
4-Methyl-2-pentanone	250	U	ND		235	ug/L	4	94	(0%-20%)	
Acetone	250	BJ	3.43	В	229	ug/L	5	90	(0%-20%)	
Acetonitrile	1250	U	ND		1140	ug/L	17	91	(0%-20%)	
Benzene	50.0	U	ND		47.6	ug/L	1	95	(0%-20%)	
Bromodichloromethane	50.0	U	ND		44.0	ug/L	2	88	(0%-20%)	
Bromoform	50.0	U	ND		46.9	ug/L	11	94	(0%-20%)	
Bromomethane	50.0	U	ND		46.3	ug/L	37*	93	(0%-20%)	
Carbon disulfide	250	U	ND		226	ug/L	16	90	(0%-20%)	
Carbon tetrachloride	50.0	U	ND		40.7	ug/L	8	81	(0%-20%)	
Chlorobenzene	50.0	U	ND		43.7	ug/L	1	87	(0%-20%)	
Chloroethane	50.0	U	ND		37.7	ug/L	29*	75	(0%-20%)	
Chloroform	50.0	U	ND		46.9	ug/L	1	94	(0%-20%)	

Workorder: 572654								Page 13 of 15
Parmname	NOM	Sample Q	Qual QC	Units	RPD%	REC%	Range Anlst	Date Time
Volatile-GC/MS Batch 2241941								
Chloromethane	50.0 U	ND	47.2	ug/L	28*	94	(0%-20%) JM6	6 03/16/22 17:39
Dibromochloromethane	50.0 U	ND	42.5	ug/L	4	85	(0%-20%)	
Dibromomethane	50.0 U	ND	47.0	ug/L	4	94	(0%-20%)	
Dichlorodifluoromethane	50.0 U	ND	32.4	ug/L	32*	65	(0%-20%)	
Ethylbenzene	50.0 U	ND	43.3	ug/L	1	87	(0%-20%)	
Iodomethane	250 U	ND	229	ug/L	15	92	(0%-20%)	
Methylene chloride	50.0 J	2.02	44.4	ug/L	9	85	(0%-20%)	
Styrene	50.0 U	ND	41.5	ug/L	6	83	(0%-20%)	
Tetrachloroethylene	50.0 U	ND	40.4	ug/L	4	81	(0%-20%)	
Toluene	50.0 J	0.430	48.1	ug/L	5	95	(0%-20%)	
Trichloroethylene	50.0 U	ND	46.5	ug/L	1	93	(0%-20%)	
Trichlorofluoromethane	50.0 U	ND	36.6	ug/L	20	73	(0%-20%)	
Vinyl acetate	250 U	ND	65.1	ug/L	7	26*	(0%-20%)	
Vinyl chloride	50.0 U	ND	40.6	ug/L	30*	81	(0%-20%)	
Xylenes (total)	150		129	ug/L	5	86	(0%-20%)	

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## **QC Summary**

Workorder: 572654								Page 14 of 15
Parmname	NOM	Sample Qual	QC	Units	RPD%	REC%	Range Anlst	Date Time
Volatile-GC/MSBatch2241941								
cis-1,3-Dichloropropylene	50.0 U	ND	43.4	ug/L	3	87	(0%-20%) JM	6 03/16/22 17:39
trans-1,2-Dichloroethylene	50.0 U	ND	40.7	ug/L	1	81	(0%-20%)	
trans-1,3-Dichloropropylene	50.0 U	ND	44.6	ug/L	7	89	(0%-20%)	
**1,2-Dichloroethane-d4	50.0	46.7	47.1	ug/L		94	(76%-127%)	
**Bromofluorobenzene	50.0	50.6	53.8	ug/L		108	(70%-130%)	
**Toluene-d8	50.0	47.8	49.4	ug/L		99	(81%-120%)	

### Notes:

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

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## **QC Summary**

				<b>ZOD</b>	ummu	<u>J</u>						
Workor	rder: 572654										Page	15 of 15
Parmna	me	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Р	OrganicsThe concentration	ons between the prim	ary and confi	irmation of	columns/det	ectors is >	40% differen	t. For HPLO	C, the differ	ence is >7	70%.	
Q	One or more quality contro	l criteria have not be	en met. Refe	r to the ap	oplicable na	rative or I	DER.					
R	Sample results are rejected											
U	Analyte was analyzed for, b	out not detected abov	e the MDL, I	MDA, M	DC or LOD							
UJ	Compound cannot be extra	cted										
Х	Consult Case Narrative, Da	ata Summary package	e, or Project N	Manager	concerning t	his qualifi	er					
Y	QC Samples were not spike	ed with this compour	d									
^	RPD of sample and duplica	te evaluated using +	-RL. Conce	ntrations	are <5X the	RL. Qual	ifier Not App	licable for l	Radiochemi	stry.		
h	Preparation or preservation	holding time was ex	ceeded									
^ The R five tim	licates that spike recovery lin celative Percent Difference (F les (5X) the contract required sed to evaluate the DUP resu	RPD) obtained from t detection limit (RL)	he sample du	uplicate (	DUP) is eva	luated aga	inst the accep	ptance criter	ia when the	e sample is	s greater	

\* 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: March 22, 2022

Page 1 of 3

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

Workorder: 572654

**Contact:** 

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range Anlst	Date Time
Rad Alpha Spec Batch 2239281 —									
QC1205037871 572654001 DUF Uranium-233/234	0	1.68		1.63	pCi/g	3.55		(0%-20%) BV1	03/19/22 11:04
Uranium-235/236	U	0.229	U	0.0310	pCi/g	N/A		N/A	
Uranium-238		1.51		1.32	pCi/g	13.1		(0%-20%)	
QC1205037872 LCS Uranium-233/234				12.5	pCi/g				03/19/22 11:04
Uranium-235/236				0.849	pCi/g				
Uranium-238	13.5			13.7	pCi/g		102	(75%-125%)	
QC1205037870 MB Uranium-233/234			U	-0.0589	pCi/g				03/19/22 11:04
Uranium-235/236			U	-0.00706	pCi/g				
Uranium-238			U	-0.00476	pCi/g				
Rad Liquid Scintillation Batch 2239256 —									
QC1205037853 572654001 DUF Technetium-99	U U	-0.0556	U	-0.195	pCi/g	N/A		N/A AG2	03/17/22 05:50
QC1205037854 LCS Technetium-99	22.5			22.3	pCi/g		99	(75%-125%)	03/17/22 06:52

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## **QC** Summary

Workorder: 572654		_								Page	2 of 3
Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Liquid ScintillationBatch2239256											
QC1205037852 MB Technetium-99			U	-0.287	pCi/g				AG2	03/17/2	2 04:47

### Notes:

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
- Results are either below the MDC or tracer recovery is low BD
- FA Failed analysis.
- Η Analytical holding time was exceeded
- J See case narrative for an explanation
- J Value is estimated
- Κ 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 if above MDC and less than LLD Μ
- REMP Result > MDC/CL and < RDL Μ
- 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
- One or more quality control criteria have not been met. Refer to the applicable narrative or DER. Q
- 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.
- Х Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- Other specific qualifiers were required to properly define the results. Consult case narrative. Y
- ٨ 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:	572654								Page 3 of 3
Parmname		NOM	Sample Qual	QC	Units	RPD%	REC%	Range Anlst	Date Time

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 #: 572654

### **GC/MS Volatile**

<u>Product:</u> Volatile Organic Compounds (VOC) by Gas Chromatograph/Mass Spectrometer <u>Analytical Method:</u> SW846 8260D <u>Analytical Procedure:</u> GL-OA-E-038 REV# 28 <u>Analytical Batch:</u> 2241941

<u>Preparation Method:</u> SW846 5035 <u>Preparation Procedure:</u> GL-OA-E-039 REV# 13 <u>Preparation Batch:</u> 2241938

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

<u>GEL Sample ID#</u>	Client Sample Identification
572654003	S-4/6-3
1205042651	Laboratory Control Sample (LCS)
1205042652	Method Blank (MB)
1205042653	572443001(NonSDG) Post Spike (PS)
1205042654	572443001(NonSDG) Post Spike Duplicate (PSD)

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 sample 572654003 (S-4/6-3) 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.

### **Quality Control (QC) Information**

### Matrix Spike/Matrix Spike Duplicate Recovery Statement

The spike and/or spike duplicate (See Below) recoveries were not all within the acceptance limits. The recoveries were similar. It is believed possible matrix interference has been demonstrated.

Sample	Analyte	Value
1205042653 (Non SDG 572443001PS)	Vinyl acetate	28* (38%-136%)
1205042654 (Non SDG 572443001PSD)	Vinyl acetate	26* (38%-136%)

### **Relative Percent Difference (RPD) Statement**

The RPD between the matrix spike pair (See Below) were not all within the acceptance limits. However, the spike recoveries passed. The unacceptable RPD may be attributed to matrix interference and/or sample non-homogeneity.

Sample	Analyte	Value
1205042653PS and 1205042654PSD (Non SDG 572443001)	Bromomethane	RPD 37* (0%-20%)
	Chloroethane	RPD 29* (0%-20%)
	Chloromethane	RPD 28* (0%-20%)
	Dichlorodifluoromethane	RPD 32* (0%-20%)
	Vinyl chloride	RPD 30* (0%-20%)

### **Radiochemistry**

Product: Alphaspec U, Analytical Method: DOE EML HASL-300, U-02-RC Modified Analytical Procedure: GL-RAD-A-011 REV# 28 Analytical Batch: 2239281

**Preparation Method:** Dry Soil Prep **Preparation Procedure:** GL-RAD-A-021 REV# 24 **Preparation Batch:** 2239274

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

<u>GEL Sample ID#</u>	Client Sample Identification
572654001	S-6-1
572654002	S-6-2
572654003	S-4/6-3
572654004	S-4-4
572654005	S-4-5
1205037870	Method Blank (MB)
1205037871	572654001(S-6-1) Sample Duplicate (DUP)
1205037872	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.

### **Miscellaneous Information**

### **Additional Comments**

The tracer peak centroid for sample 1205037872 (LCS) is greater than 50 keV from the expected library energy

value for the tracer; however, the tracer yield requirement was met and the tracer peak is within the tracer region of interest.

<u>Preparation Method:</u> ASTM D 2216 (Modified) <u>Preparation Procedure:</u> GL-OA-E-020 REV# 13 <u>Preparation Batch:</u> 2239274

**Preparation Method:** Dry Soil Prep **Preparation Procedure:** GL-RAD-A-021 REV# 24 **Preparation Batch:** 2239274

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

<u>GEL Sample ID#</u>	Client Sample Identification
572654001	S-6-1
572654002	S-6-2
572654003	S-4/6-3
572654004	S-4-4
572654005	S-4-5
1205037868	572654001(S-6-1) 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: 2239256

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

<u>GEL Sample ID#</u>	<b><u>Client Sample Identification</u></b>
572654001	S-6-1
572654002	S-6-2
572654003	S-4/6-3
572654004	S-4-4
572654005	S-4-5
1205037852	Method Blank (MB)
1205037853	572654001(S-6-1) Sample Duplicate (DUP)

### 1205037854 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.

### **<u>Certification Statement</u>**

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: of Bicot # SEA ANCL Soil SAMOL into		PSHC 572(54 GEL Laboratories, LLC	
GEL Quote #: CSC Ni(1)	gel.com Chemistry I Radiochemistry	ialty Analytics	
500822910 LU 1	GEL Work Order Number: GEI Protory Manager		
સ શ્	CO. Phone # 803-3	Sample Analysis Requested <sup>(5)</sup> (Fill in the number of containers for each teer)	for each test)
Slatan	しいいて		
OI BLUFF Rd.	Hopkins SC 29061	sample be considered:	
lected By: R. Crews gen	Send Results To: C. Teague	00 10 . . 01 CO	Comments
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and the Her Her De Int	Dedium'	ing Use Only: Custody Seal Intact? [] Yes [] No	Cooler Temp: Z_°C
<ol> <li>Chain of Custody Number = Client Determined</li> <li>Choin of Custody Number = Client Determined</li> <li>QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = M</li> </ol>	<ul> <li><sup>1</sup> or consistent and print and print of the second prediction of the second second state of a pacific of the second secon</li></ul>	Santyre Collection Time Zone: [] Eastern [] Pacific [] Central [] Mountain [] Other: de, 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=Water, M=Water, MI=Mise Linuid SO	sample was field filtered or - N - for sample was not field filtered. ace Water, WW=Waster Water, W=Water, ML=Misc Lionid, SD=Soil SD=Soil	<ol> <li>Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.</li> <li>Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Suffice Water, WW=Water, WM=Water, ML=Mise Limid, SD=Soil S</li></ol>	
<ol> <li>Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided 5) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascor</li> </ol>	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). 5) 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	ous or oues, oor out waste, O=On, r=ritter, r=wipe, U=Orme, r=recat, N=Nasat 108/74704 - 1). ≈ Sodium Thiosulfate, If no preservative is added = leave field blank	
1) Are there any known or possible hazards [Chan associated with these samples? FL =	Characteristic Hazards Listed Waste FL = Flammable/Ignitable LW= Listed Waste		Please provide any additional details
CO = <u>RCRA Metals</u> <u>As = Ansenic Hg= Mercury</u>	CO = Corrosive (F, K, P and U-listed wastes.) RE = Reactive Waste code(s):	w p.H. asbestos, beryllium, irritants, other hazards, etc.)	octors regutants national unicor asposat concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.)
See Selenium m Ag= Silver	TSCA Regulated PCB = Polychimated	Description:	
n MR= Miscellaneous RCRA metals	biphenyls		

		DEVIEW FORM	- the
Laboratories LLC	SAMPLE RECE	IPT & REVIEW FORM	e Cet
Leng Land	SDG/AR/COC/Work Order	150	
Client: DAUC	Date Received:	Circle Applicable	es Couriet Other
Received By: TYE	Fed2	x Express FedEx Ground UPS Field Service	
Received 53.			
		• 13	
Carrier and Tracking Number			for further investigation.
		samples not marked "radioactive", contact the Radiation	Safety Group for Future
	3 2 *If Net Counts > 100cpm of	samples not marked	
Suspected Hazard Information	Hazard Class Shipped:	UN#: s the Radioactive Shipment Survey Compliant? Yes1	No
	Hazara Class onepr If UN2910, I	s the Radioactive Suprisition	
A)Shipped as a DOT Hazardous?	1 diagetis	e stickers on containers equal client designation.	ED
A)Shipped as a Doce B) Did the client designate the samples are to be	COC notation or radioacut	Ama Background Counts): .	CPM/mR/Hr
B) Did the client designate are the received as radioactive?	Maximum Net Counts 9	schweit* (Observed Counts - Area Background Counts): . Rad 1 Rad 2 Rad 3	
C) Did the RSO classify the samples as			
C) Did the RSO classify no 1007 radioactive?	Coc contain or hazard I	abels on containers equal client designation.	
	is?	Bervilli	um Other:
D) Did the client designate samples are bazard	PCB's Flamm	Formign Soil RURA	
		Comments/Qualifiers (Required for Non-C	Conforming Reads)
E) Did the RSO identify possible hazards?	S Z Z	Comments/Qualifiers (Required for Not Seals broken Damaged container Leaking container C	
Sample Receipt Criteria	Id Circle Application.	COC created upon	receipt
Shipping containers received intact		Client contacted and provided	0.0
1 sealed? Chain of custody documents includ		None Uner.	TEMP:
2 [with shipment?	Preservation Mic	the Wet Ice Ice Packs Divice area to recorded in Celsius	
3 Samples requiring cold preservation			
3 Samples requiring over $(0 \le 6 \deg. C)$ ?*	Temperature I	avice Senill #+11 states that	
Daily check performed and passes	on IR Secondary Tem	perature Device Serial # (If Applicatic). : Seals broken Damaged container Leaking container	Other (describe)
" temperature gun?		: Seas oroxen	
5 Sample containers intact and seal		Contait.ers Affected:	and the second
Samples requiring chemical pres	dam la	Containers Attended moded, Louff: mores or Soil Kits present for Solids? Yes_LNONA to read contain acid preservation? YesNoNA	(If yes, take to VOAIFreezer) 1
5 at proper pil?	If Presenation	cores or Soil Kits present for Solids? res_ No_ NA_	(If unknown, select No)
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Dc any samples require Vo	tile Are liquid Vo	ed containers affected:	<u>r 4 s s</u>
Analysis?			
		s affected:	
8 Samples received within holding	time? V	tainers affected:	
8 Gamperson	A MARKET		COC missing info Other (describe)
9 Sample ID's on COC match II bottles?	son	licable: No dates on containers No times on containers	
Date & time on COC match o	e & time	Other (describe)	
10 Ion bottles?	Circle Ap	slicable: No container count on COC Other (describe)	
- f containers receiv	match		
	1235		
Are sample containers ident		oplicable: Not relinquished Other (describe)	5
12 GEL provided by use of one	in Chele A	· • •	
Comments (Use Continuation For	t necdca):		
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	PM (or PMA) review: Initials	NRL- Date JIUJan	GL-CHL-SR-0
	PM (or PMA) review: Initials _		GL-CHL-SH-U

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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	SC000122021–36	
Vermont	VT87156	
Virginia NELAP	460202	
Virginia NECA400202WashingtonC780		
Washington	C/80	

List of current GEL Certifications as of 22 March 2022