



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-23-55

September 8, 2023

Subject: **August** 2023 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 9, 2023**. The following progress report is for work occurring from **August 1- 31, 2023**:

- (a) Actions during the previous month:

In accordance with **Item 7** of the Consent Agreement and to support completion of the **Feasibility Study (FS) Work Plan Report** due on or before November 30, 2024, Westinghouse continued work as follows:

- Conducted soil and sediment sampling within the site's Middle Ditch in accordance with the approved work plan.
- Particle tracking was conducted under two separate scenarios to assess if either scenario would mimic current CVOC plume configurations.

(b) Results of sampling and tests:

- On August 3, 2023 soil and sediment sampling was conducted within the Middle Ditch. The tabulated results, sampling location map, and laboratory reports are included in this monthly report as **Attachment A**. A formal report on the Middle Ditch soil and sediment sampling event will be submitted to the Department on or before November 15, 2023.

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

- Continue to develop site specific remedial goals for radionuclide impact assessment.
- Continue particle tracking for site COPCs in the groundwater fate and transport model.
- Begin analyzing and assessing the soil and sediment data from the middle ditch sampling event.

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

- 100% of the **Remedial Investigation** is complete.
- 100% of the **Groundwater Flow Model** is completed.
- 100% of the **Feasibility Study Work Plan** is completed
- 5% of the **Groundwater Fate and Transport Model** is 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
S. Subosits, Licensing Engineer
ENOVIA Records

Attachment A

Middle Ditch Soil and Sediment Sampling Results

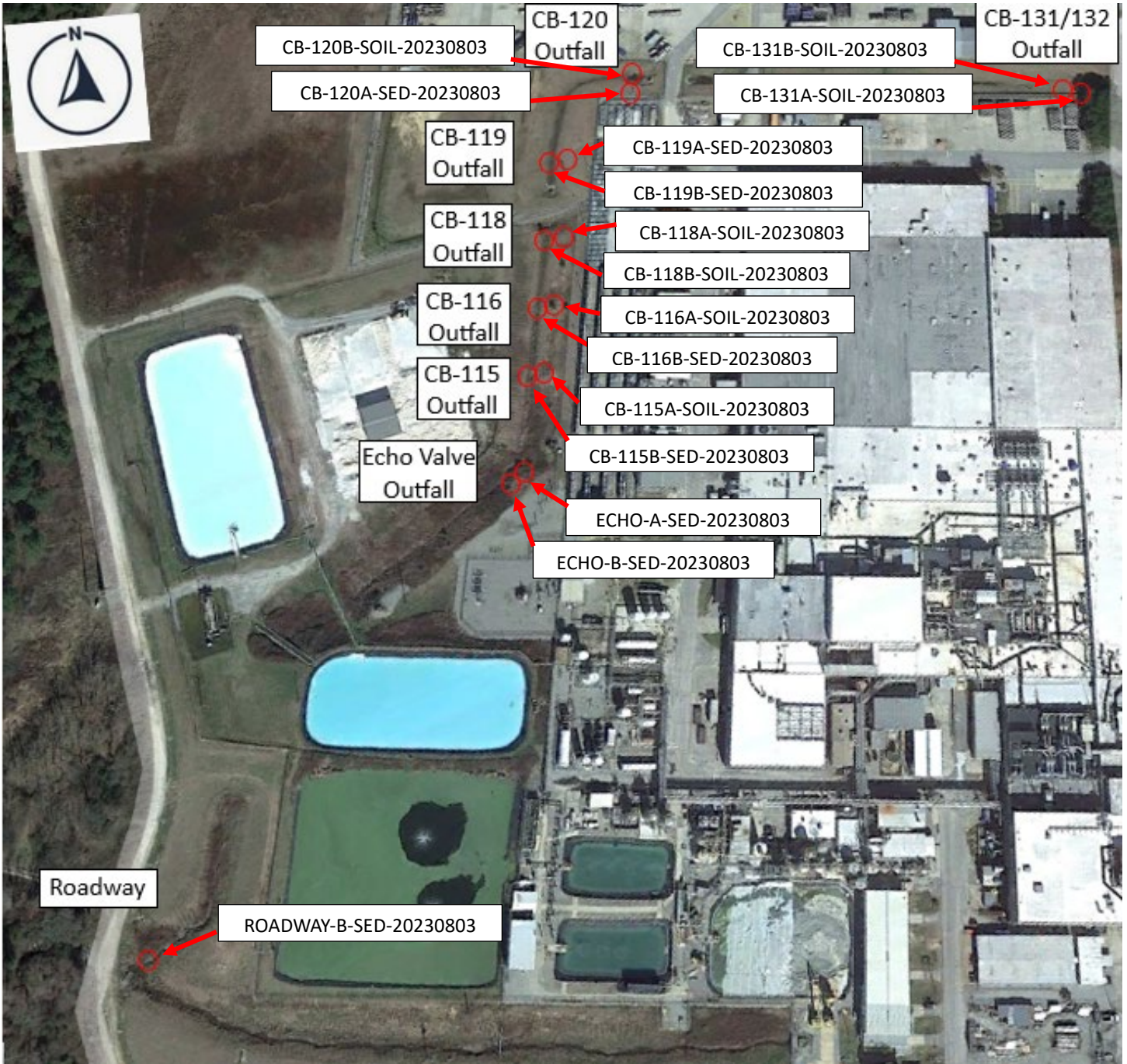
Tabulated Sampling Results and Sum of Fractions Calculations

Sampling Location Map

GEL Laboratory Results
Sampling conducted: August 3, 2023
GEL Work Order: 632081
Report Date: August 21, 2023

Tabulated Sampling Results and Sum of Fractions Calculations

Sampling Event:		Middle Ditch - 8/3/23				Total Sample Count:	15	
		Analyte (pCi/g)				Calculated Enrichment (%)	SOF Residential	SOF Industrial
		U-234	U-235	U-238	Tc-99			
Minimum Result:		0.4	0.0	0.5	-0.4	0.2	0.1	0.0
Average Result:		27.1	1.5	6.0	0.2	2.7	2.7	0.1
Maximum Result:		140.0	7.5	27.6	3.1	4.6	13.7	0.4
#	Sample ID	Gross Analyte Activity (pCi/g)				Calculated Enrichment (%)	SOF Residential	SOF Industrial
		U-234	U-235	U-238	Tc-99			
1	CB-131A-SOIL-20230803	1.2	0.1	0.7	-0.1	2.5	0.2	0.0
2	CB-131A-SOIL-20230803LR	1.3	0.0	0.8	0.0	0.9	0.2	0.0
3	CB-120A-SED-20230803	2.3	0.2	2.3	0.3	1.5	0.4	0.0
4	CB-120B-SOIL-20230803	2.2	0.0	2.1	0.0	0.2	0.3	0.0
5	CB-119A-SED-20230803	0.4	0.0	0.5	0.1	1.4	0.1	0.0
6	CB-119B-SED-20230803	0.7	0.2	1.1	-0.3	3.3	0.2	0.0
7	CB-118A-SOIL-20230803	1.2	0.2	1.1	0.2	2.4	0.2	0.0
8	CB-118B-SOIL-20230803	2.1	0.1	1.6	0.0	1.1	0.3	0.0
9	CB-116A-SOIL-20230803	67.7	3.5	16.0	0.0	3.3	6.8	0.2
10	CB-116B-SED-20230803	4.5	0.3	1.5	0.0	3.1	0.5	0.0
11	CB-115A-SOIL-20230803	44.7	2.4	8.2	-0.4	4.4	4.3	0.1
12	CB-115B-SED-20230803	27.4	1.3	4.6	0.0	4.2	2.6	0.1
13	ECHO-A-SED-20230803	140.0	7.5	27.6	0.1	4.1	13.7	0.4
14	ECHO-B-SED-20230803	70.1	4.3	14.2	0.3	4.6	7.0	0.2
15	ROADWAY-B-SED-20230803	41.1	2.3	8.3	3.1	4.1	4.2	0.1



OUTFALL SAMPLE ("A")	SAMPLE TIME	CORRESPONDING DITCH SAMPLE ("B")	SAMPLE TIME
CB-131A-SOIL-20230803	1013	CB-131B-SOIL-20230803	1017
CB-120A-SED-20230803	1030	CB-120B-SOIL-20230803	1041
CB-119A-SED-20230803	1050	CB-119B-SED-20230803	1059
CB-118A-SOIL-20230803	0846	CB-118B-SOIL-20230803	0856
CB-116A-SOIL-20230803	0910	CB-116B-SED-20230803	0916
CB-115A-SOIL-20230803	0932	CB-115B-SED-20230803	0938
ECHO-A-SED-20230803	0830	ECHO-B-SED-20230803	0835
		ROADWAY-B-SED-20230803	1121



August 21, 2023

Diana Joyner
Westinghouse Electric Co. LLC
5801 Bluff Road
Hopkins, South Carolina 29061

Re: Middle Ditch
Work Order: 632081

Dear Diana Joyner:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on August 03, 2023. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

The samples were delivered with proper chain of custody documentation and signatures. The samples were screened according to GEL Standard Operating Procedure. All sample containers arrived without any visible signs of tampering or breakage. Containers were checked for pH, where appropriate, and matched the preservative as documented on the accompanying chain of custody. Shipping container temperatures were checked, documented, and within specifications. Samples were received within the specified holding time. There are no additional comments concerning sample receipt.

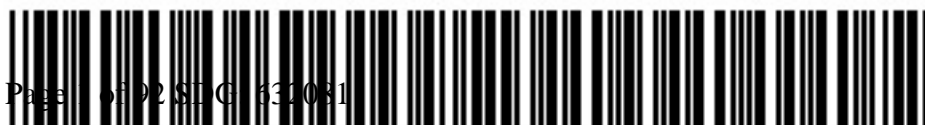
Test results for NELAP or ISO 17025 accredited tests are verified to meet the requirements of those standards, with any exceptions noted. The results reported relate only to the items tested and to the sample as received by the laboratory. These results may not be reproduced except as full reports without 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. 1614.

Sincerely,

Delaney Stone
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: 632081 GEL Work Order: 632081

The Qualifiers in this report are defined as follows:

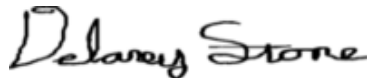
- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a Tracer compound
- ** Analyte is a surrogate compound
- B Either presence of analyte detected in the associated blank, or MDL/IDL < sample value < PQL
- J Value is estimated
- U Analyte was analyzed for, 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, Delaney Stone.

Reviewed by



GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: August 21, 2023

Company : Westinghouse Electric Co. LLC
Address : 5801 Bluff Road

Hopkins, South Carolina 29061

Contact: Diana Joyner
Project: Middle Ditch

Client Sample ID: CB-131A-SOIL-20230803 Project: WNUC01223
Sample ID: 632081001 Client ID: WNUC010
Matrix: Soil
Collect Date: 03-AUG-23 10:13
Receive Date: 03-AUG-23
Collector: Client
Moisture: 15.8%

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride and Nitrate "Dry Weight Corrected"												
Fluoride		4.24	0.403	1.18	mg/kg	9.98	1	JLD1	08/04/23	1210	2471784	1
Nitrate-N	J	0.448	0.391	1.18	mg/kg	9.98	1					
Metals Analysis-ICP-MS												
TCLP ICP-MS Metals "As Received"												
Nickel		0.0282	0.00600	0.0200	mg/L	10.0	1	BCD1	08/17/23	0947	2472541	2
Nutrient Analysis												
EPA 350.1 Nitrogen, Ammonia "Dry Weight Corrected"												
Nitrogen, Ammonia		82.1	5.45	15.2	mg/kg	51.0	5	AXH3	08/09/23	1403	2471486	3
Volatile Organics												
SW846 8260 Volatiles "Dry Weight Corrected"												
1,1,1-Trichloroethane	U	0.358	0.358	1.08	ug/kg	0.906	1	PXY1	08/13/23	1210	2475725	4
1,1,2,2-Tetrachloroethane	U	0.358	0.358	1.08	ug/kg	0.906	1					
1,1,2-Trichloroethane	U	0.358	0.358	1.08	ug/kg	0.906	1					
1,1-Dichloroethane	U	0.358	0.358	1.08	ug/kg	0.906	1					
1,1-Dichloroethylene	U	0.358	0.358	1.08	ug/kg	0.906	1					
1,2,3-Trichlorobenzene	U	0.358	0.358	1.08	ug/kg	0.906	1					
1,2,4-Trichlorobenzene	U	0.358	0.358	1.08	ug/kg	0.906	1					
1,2-Dibromo-3-chloropropane	U	0.538	0.538	1.08	ug/kg	0.906	1					
1,2-Dibromoethane	U	0.358	0.358	1.08	ug/kg	0.906	1					
1,2-Dichlorobenzene	U	0.358	0.358	1.08	ug/kg	0.906	1					
1,2-Dichloroethane	U	0.358	0.358	1.08	ug/kg	0.906	1					
1,2-Dichloropropane	U	0.358	0.358	1.08	ug/kg	0.906	1					
1,3-Dichlorobenzene	U	0.358	0.358	1.08	ug/kg	0.906	1					
1,4-Dichlorobenzene	U	0.358	0.358	1.08	ug/kg	0.906	1					
1-Chlorohexane	U	0.358	0.358	1.08	ug/kg	0.906	1					
2-Butanone	U	1.79	1.79	5.38	ug/kg	0.906	1					
2-Hexanone	U	1.79	1.79	5.38	ug/kg	0.906	1					
4-Methyl-2-pentanone	U	1.79	1.79	5.38	ug/kg	0.906	1					
Acetone	U	1.79	1.79	5.38	ug/kg	0.906	1					
Benzene	U	0.358	0.358	1.08	ug/kg	0.906	1					
Bromochloromethane	U	0.358	0.358	1.08	ug/kg	0.906	1					
Bromodichloromethane	U	0.358	0.358	1.08	ug/kg	0.906	1					
Bromoform	U	0.358	0.358	1.08	ug/kg	0.906	1					
Bromomethane	U	0.358	0.358	1.08	ug/kg	0.906	1					

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: August 21, 2023

Company : Westinghouse Electric Co. LLC
Address : 5801 Bluff Road

Hopkins, South Carolina 29061

Contact: Diana Joyner
Project: Middle Ditch

Client Sample ID: CB-131A-SOIL-20230803
Sample ID: 632081001

Project: WNUC01223
Client ID: WNUC010

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
SW846 8260 Volatiles "Dry Weight Corrected"												
Carbon disulfide	U	1.79	1.79	5.38	ug/kg	0.906	1					
Carbon tetrachloride	U	0.358	0.358	1.08	ug/kg	0.906	1					
Chlorobenzene	U	0.358	0.358	1.08	ug/kg	0.906	1					
Chloroethane	U	0.358	0.358	1.08	ug/kg	0.906	1					
Chloroform	U	0.358	0.358	1.08	ug/kg	0.906	1					
Chloromethane	U	0.358	0.358	1.08	ug/kg	0.906	1					
Cyclohexane	U	0.358	0.358	1.08	ug/kg	0.906	1					
Dibromochloromethane	U	0.358	0.358	1.08	ug/kg	0.906	1					
Dichlorodifluoromethane	U	0.358	0.358	1.08	ug/kg	0.906	1					
Ethylbenzene	U	0.358	0.358	1.08	ug/kg	0.906	1					
Isopropylbenzene	U	0.358	0.358	1.08	ug/kg	0.906	1					
Methyl acetate	U	1.79	1.79	5.38	ug/kg	0.906	1					
Methylcyclohexane	U	0.358	0.358	1.08	ug/kg	0.906	1					
Methylene chloride	U	1.79	1.79	5.38	ug/kg	0.906	1					
Naphthalene	U	0.358	0.358	1.08	ug/kg	0.906	1					
Styrene	U	0.358	0.358	1.08	ug/kg	0.906	1					
Tetrachloroethylene	U	0.358	0.358	1.08	ug/kg	0.906	1					
Toluene	U	0.358	0.358	1.08	ug/kg	0.906	1					
Trichloroethylene	U	0.358	0.358	1.08	ug/kg	0.906	1					
Trichlorofluoromethane	U	0.358	0.358	1.08	ug/kg	0.906	1					
Trichlorotrifluoroethane	U	1.79	1.79	5.38	ug/kg	0.906	1					
Vinyl chloride	U	0.358	0.358	1.08	ug/kg	0.906	1					
cis-1,2-Dichloroethylene	U	0.358	0.358	1.08	ug/kg	0.906	1					
cis-1,3-Dichloropropylene	U	0.358	0.358	1.08	ug/kg	0.906	1					
m,p-Xylenes	U	0.718	0.718	2.15	ug/kg	0.906	1					
o-Xylene	U	0.358	0.358	1.08	ug/kg	0.906	1					
tert-Butyl methyl ether	U	0.358	0.358	1.08	ug/kg	0.906	1					
trans-1,2-Dichloroethylene	U	0.358	0.358	1.08	ug/kg	0.906	1					
trans-1,3-Dichloropropylene	U	0.358	0.358	1.08	ug/kg	0.906	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 5035	5035 Prep	PXY1	08/03/23	1013	2475724
EPA 350.1 Modified Prep	EPA 350.1 Mod. Ammonia Nitrogen Prep	ES2	08/09/23	1132	2471485
SW846 3010A	TCLP SW 846 3010 Acid Digestion	EM2	08/08/23	1545	2472540
SW846 1311	SW846 1311 TCLP Leaching	RXB5	08/07/23	1420	2471840

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Certificate of Analysis

Report Date: August 21, 2023

Company : Westinghouse Electric Co. LLC
Address : 5801 Bluff Road

Hopkins, South Carolina 29061
Contact: Diana Joyner
Project: Middle Ditch

Client Sample ID: CB-131A-SOIL-20230803 Project: WNUC01223
Sample ID: 632081001 Client ID: WNUC010

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
SW846 9056A	SW846 9056A	Total Anions in Soil		VN1	08/04/23		1818		2471783		

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	SW846 9056A		
2	SW846 3010A/6020B		
3	EPA 350.1 Modified SC		
4	SW846 8260D		

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Bromofluorobenzene	SW846 8260 Volatiles "Dry Weight Corrected"	54.1 ug/kg	50.0	101	(70%-130%)
1,2-Dichloroethane-d4	SW846 8260 Volatiles "Dry Weight Corrected"	53.9 ug/kg	50.0	100	(76%-127%)
Toluene-d8	SW846 8260 Volatiles "Dry Weight Corrected"	54.3 ug/kg	50.0	101	(81%-120%)

Notes:

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 21, 2023

Company : Westinghouse Electric Co. LLC
Address : 5801 Bluff Road

Hopkins, South Carolina 29061

Contact: Diana Joyner
Project: Middle Ditch

Client Sample ID: CB-131B-SOIL-20230803	Project: WNUC01223
Sample ID: 632081002	Client ID: WNUC010
Matrix: Soil	
Collect Date: 03-AUG-23 10:17	
Receive Date: 03-AUG-23	
Collector: Client	
Moisture: 11.4%	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride and Nitrate "Dry Weight Corrected"												
Fluoride		1.29	0.381	1.12	mg/kg	9.93	1	JLD1	08/04/23	2148	2471784	1
Nitrate-N	J	0.576	0.370	1.12	mg/kg	9.93	1					
Metals Analysis-ICP-MS												
TCLP ICP-MS Metals "As Received"												
Nickel	J	0.00764	0.00600	0.0200	mg/L	10.0	1	BCD1	08/17/23	1001	2472541	2
Nutrient Analysis												
EPA 350.1 Nitrogen, Ammonia "Dry Weight Corrected"												
Nitrogen, Ammonia		67.0	4.03	11.2	mg/kg	39.7	5	AXH3	08/09/23	1407	2471486	3
Volatile Organics												
SW846 8260 Volatiles "Dry Weight Corrected"												
1,1,1-Trichloroethane	U	0.340	0.340	1.02	ug/kg	0.904	1	PXY1	08/13/23	1240	2475725	4
1,1,2,2-Tetrachloroethane	U	0.340	0.340	1.02	ug/kg	0.904	1					
1,1,2-Trichloroethane	U	0.340	0.340	1.02	ug/kg	0.904	1					
1,1-Dichloroethane	U	0.340	0.340	1.02	ug/kg	0.904	1					
1,1-Dichloroethylene	U	0.340	0.340	1.02	ug/kg	0.904	1					
1,2,3-Trichlorobenzene	U	0.340	0.340	1.02	ug/kg	0.904	1					
1,2,4-Trichlorobenzene	U	0.340	0.340	1.02	ug/kg	0.904	1					
1,2-Dibromo-3-chloropropane	U	0.510	0.510	1.02	ug/kg	0.904	1					
1,2-Dibromoethane	U	0.340	0.340	1.02	ug/kg	0.904	1					
1,2-Dichlorobenzene	U	0.340	0.340	1.02	ug/kg	0.904	1					
1,2-Dichloroethane	U	0.340	0.340	1.02	ug/kg	0.904	1					
1,2-Dichloropropane	U	0.340	0.340	1.02	ug/kg	0.904	1					
1,3-Dichlorobenzene	U	0.340	0.340	1.02	ug/kg	0.904	1					
1,4-Dichlorobenzene	U	0.340	0.340	1.02	ug/kg	0.904	1					
1-Chlorohexane	U	0.340	0.340	1.02	ug/kg	0.904	1					
2-Butanone	U	1.70	1.70	5.10	ug/kg	0.904	1					
2-Hexanone	U	1.70	1.70	5.10	ug/kg	0.904	1					
4-Methyl-2-pentanone	U	1.70	1.70	5.10	ug/kg	0.904	1					
Acetone	J	2.09	1.70	5.10	ug/kg	0.904	1					
Benzene	U	0.340	0.340	1.02	ug/kg	0.904	1					
Bromochloromethane	U	0.340	0.340	1.02	ug/kg	0.904	1					
Bromodichloromethane	U	0.340	0.340	1.02	ug/kg	0.904	1					
Bromoform	U	0.340	0.340	1.02	ug/kg	0.904	1					
Bromomethane	U	0.340	0.340	1.02	ug/kg	0.904	1					

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: August 21, 2023

Company : Westinghouse Electric Co. LLC
Address : 5801 Bluff Road

Hopkins, South Carolina 29061
Contact: Diana Joyner
Project: Middle Ditch

Client Sample ID: CB-131B-SOIL-20230803
Sample ID: 632081002

Project: WNUC01223
Client ID: WNUC010

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
SW846 8260 Volatiles "Dry Weight Corrected"												
Carbon disulfide	U	1.70	1.70	5.10	ug/kg	0.904	1					
Carbon tetrachloride	U	0.340	0.340	1.02	ug/kg	0.904	1					
Chlorobenzene	U	0.340	0.340	1.02	ug/kg	0.904	1					
Chloroethane	U	0.340	0.340	1.02	ug/kg	0.904	1					
Chloroform	U	0.340	0.340	1.02	ug/kg	0.904	1					
Chloromethane	U	0.340	0.340	1.02	ug/kg	0.904	1					
Cyclohexane	U	0.340	0.340	1.02	ug/kg	0.904	1					
Dibromochloromethane	U	0.340	0.340	1.02	ug/kg	0.904	1					
Dichlorodifluoromethane	U	0.340	0.340	1.02	ug/kg	0.904	1					
Ethylbenzene	U	0.340	0.340	1.02	ug/kg	0.904	1					
Isopropylbenzene	U	0.340	0.340	1.02	ug/kg	0.904	1					
Methyl acetate	U	1.70	1.70	5.10	ug/kg	0.904	1					
Methylcyclohexane	U	0.340	0.340	1.02	ug/kg	0.904	1					
Methylene chloride	U	1.70	1.70	5.10	ug/kg	0.904	1					
Naphthalene	U	0.340	0.340	1.02	ug/kg	0.904	1					
Styrene	U	0.340	0.340	1.02	ug/kg	0.904	1					
Tetrachloroethylene	U	0.340	0.340	1.02	ug/kg	0.904	1					
Toluene	U	0.340	0.340	1.02	ug/kg	0.904	1					
Trichloroethylene	U	0.340	0.340	1.02	ug/kg	0.904	1					
Trichlorofluoromethane	U	0.340	0.340	1.02	ug/kg	0.904	1					
Trichlorotrifluoroethane	U	1.70	1.70	5.10	ug/kg	0.904	1					
Vinyl chloride	U	0.340	0.340	1.02	ug/kg	0.904	1					
cis-1,2-Dichloroethylene	U	0.340	0.340	1.02	ug/kg	0.904	1					
cis-1,3-Dichloropropylene	U	0.340	0.340	1.02	ug/kg	0.904	1					
m,p-Xylenes	U	0.681	0.681	2.04	ug/kg	0.904	1					
o-Xylene	U	0.340	0.340	1.02	ug/kg	0.904	1					
tert-Butyl methyl ether	U	0.340	0.340	1.02	ug/kg	0.904	1					
trans-1,2-Dichloroethylene	U	0.340	0.340	1.02	ug/kg	0.904	1					
trans-1,3-Dichloropropylene	U	0.340	0.340	1.02	ug/kg	0.904	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 350.1 Modified Prep	EPA 350.1 Mod. Ammonia Nitrogen Prep	ES2	08/09/23	1132	2471485
SW846 3010A	TCLP SW 846 3010 Acid Digestion	EM2	08/08/23	1545	2472540
SW846 9056A	SW846 9056A Total Anions in Soil	VN1	08/04/23	1818	2471783
SW846 1311	SW846 1311 TCLP Leaching	RXB5	08/07/23	1420	2471840

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: August 21, 2023

Company : Westinghouse Electric Co. LLC
Address : 5801 Bluff Road

Hopkins, South Carolina 29061
Contact: Diana Joyner
Project: Middle Ditch

Client Sample ID: CB-131B-SOIL-20230803 Project: WNUC01223
Sample ID: 632081002 Client ID: WNUC010

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
SW846 5035	5035 Prep			PXY1	08/03/23		1017		2475724		

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	SW846 9056A		
2	SW846 3010A/6020B		
3	EPA 350.1 Modified SC		
4	SW846 8260D		

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Bromofluorobenzene	SW846 8260 Volatiles "Dry Weight Corrected"	51.6 ug/kg	50.0	101	(70%-130%)
1,2-Dichloroethane-d4	SW846 8260 Volatiles "Dry Weight Corrected"	52.3 ug/kg	50.0	103	(76%-127%)
Toluene-d8	SW846 8260 Volatiles "Dry Weight Corrected"	51.3 ug/kg	50.0	101	(81%-120%)

Notes:

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 21, 2023

Company : Westinghouse Electric Co. LLC
Address : 5801 Bluff Road

Hopkins, South Carolina 29061

Contact: Diana Joyner
Project: Middle Ditch

Client Sample ID: CB-120A-SED-20230803 Project: WNUC01223
Sample ID: 632081003 Client ID: WNUC010
Matrix: Solid
Collect Date: 03-AUG-23 10:30
Receive Date: 03-AUG-23
Collector: Client
Moisture: 31.8%

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride and Nitrate "Dry Weight Corrected"												
Fluoride		4.39	0.489	1.44	mg/kg	9.80	1	JLD1	08/04/23	2220	2471784	1
Nitrate-N	J	0.486	0.474	1.44	mg/kg	9.80	1					
Metals Analysis-ICP-MS												
TCLP ICP-MS Metals "As Received"												
Nickel		0.0226	0.00600	0.0200	mg/L	10.0	1	BCD1	08/17/23	1003	2472541	2
Nutrient Analysis												
EPA 350.1 Nitrogen, Ammonia "Dry Weight Corrected"												
Nitrogen, Ammonia		71.8	5.15	14.3	mg/kg	39.1	5	AXH3	08/09/23	1408	2471486	3
Volatile Organics												
SW846 8260 Volatiles "Dry Weight Corrected"												
1,1,1-Trichloroethane	U	0.457	0.457	1.37	ug/kg	0.936	1	PXY1	08/13/23	1310	2475725	4
1,1,2,2-Tetrachloroethane	U	0.457	0.457	1.37	ug/kg	0.936	1					
1,1,2-Trichloroethane	U	0.457	0.457	1.37	ug/kg	0.936	1					
1,1-Dichloroethane	U	0.457	0.457	1.37	ug/kg	0.936	1					
1,1-Dichloroethylene	U	0.457	0.457	1.37	ug/kg	0.936	1					
1,2,3-Trichlorobenzene	U	0.457	0.457	1.37	ug/kg	0.936	1					
1,2,4-Trichlorobenzene	U	0.457	0.457	1.37	ug/kg	0.936	1					
1,2-Dibromo-3-chloropropane	U	0.686	0.686	1.37	ug/kg	0.936	1					
1,2-Dibromoethane	U	0.457	0.457	1.37	ug/kg	0.936	1					
1,2-Dichlorobenzene	U	0.457	0.457	1.37	ug/kg	0.936	1					
1,2-Dichloroethane	U	0.457	0.457	1.37	ug/kg	0.936	1					
1,2-Dichloropropane	U	0.457	0.457	1.37	ug/kg	0.936	1					
1,3-Dichlorobenzene	U	0.457	0.457	1.37	ug/kg	0.936	1					
1,4-Dichlorobenzene	U	0.457	0.457	1.37	ug/kg	0.936	1					
1-Chlorohexane	U	0.457	0.457	1.37	ug/kg	0.936	1					
2-Butanone	J	2.42	2.29	6.86	ug/kg	0.936	1					
2-Hexanone	U	2.29	2.29	6.86	ug/kg	0.936	1					
4-Methyl-2-pentanone	U	2.29	2.29	6.86	ug/kg	0.936	1					
Acetone		21.4	2.29	6.86	ug/kg	0.936	1					
Benzene	U	0.457	0.457	1.37	ug/kg	0.936	1					
Bromochloromethane	U	0.457	0.457	1.37	ug/kg	0.936	1					
Bromodichloromethane	U	0.457	0.457	1.37	ug/kg	0.936	1					
Bromoform	U	0.457	0.457	1.37	ug/kg	0.936	1					
Bromomethane	U	0.457	0.457	1.37	ug/kg	0.936	1					

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Certificate of Analysis

Report Date: August 21, 2023

Company : Westinghouse Electric Co. LLC
Address : 5801 Bluff Road

Contact: Hopkins, South Carolina 29061
Diana Joyner
Project: Middle Ditch

Client Sample ID: CB-120A-SED-20230803
Sample ID: 632081003

Project: WNUC01223
Client ID: WNUC010

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
SW846 8260 Volatiles "Dry Weight Corrected"												
Carbon disulfide	U	2.29	2.29	6.86	ug/kg	0.936	1					
Carbon tetrachloride	U	0.457	0.457	1.37	ug/kg	0.936	1					
Chlorobenzene	U	0.457	0.457	1.37	ug/kg	0.936	1					
Chloroethane	U	0.457	0.457	1.37	ug/kg	0.936	1					
Chloroform	U	0.457	0.457	1.37	ug/kg	0.936	1					
Chloromethane	U	0.457	0.457	1.37	ug/kg	0.936	1					
Cyclohexane	U	0.457	0.457	1.37	ug/kg	0.936	1					
Dibromochloromethane	U	0.457	0.457	1.37	ug/kg	0.936	1					
Dichlorodifluoromethane	U	0.457	0.457	1.37	ug/kg	0.936	1					
Ethylbenzene	U	0.457	0.457	1.37	ug/kg	0.936	1					
Isopropylbenzene	U	0.457	0.457	1.37	ug/kg	0.936	1					
Methyl acetate	U	2.29	2.29	6.86	ug/kg	0.936	1					
Methylcyclohexane	U	0.457	0.457	1.37	ug/kg	0.936	1					
Methylene chloride	U	2.29	2.29	6.86	ug/kg	0.936	1					
Naphthalene	U	0.457	0.457	1.37	ug/kg	0.936	1					
Styrene	U	0.457	0.457	1.37	ug/kg	0.936	1					
Tetrachloroethylene	U	0.457	0.457	1.37	ug/kg	0.936	1					
Toluene	U	0.457	0.457	1.37	ug/kg	0.936	1					
Trichloroethylene	U	0.457	0.457	1.37	ug/kg	0.936	1					
Trichlorofluoromethane	U	0.457	0.457	1.37	ug/kg	0.936	1					
Trichlorotrifluoroethane	U	2.29	2.29	6.86	ug/kg	0.936	1					
Vinyl chloride	U	0.457	0.457	1.37	ug/kg	0.936	1					
cis-1,2-Dichloroethylene	U	0.457	0.457	1.37	ug/kg	0.936	1					
cis-1,3-Dichloropropylene	U	0.457	0.457	1.37	ug/kg	0.936	1					
m,p-Xylenes	U	0.915	0.915	2.74	ug/kg	0.936	1					
o-Xylene	U	0.457	0.457	1.37	ug/kg	0.936	1					
tert-Butyl methyl ether	U	0.457	0.457	1.37	ug/kg	0.936	1					
trans-1,2-Dichloroethylene	U	0.457	0.457	1.37	ug/kg	0.936	1					
trans-1,3-Dichloropropylene	U	0.457	0.457	1.37	ug/kg	0.936	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9056A	SW846 9056A Total Anions in Soil	VN1	08/04/23	1818	2471783
SW846 5035	5035 Prep	PXY1	08/03/23	1030	2475724
EPA 350.1 Modified Prep	EPA 350.1 Mod. Ammonia Nitrogen Prep	ES2	08/09/23	1132	2471485
SW846 3010A	TCLP SW 846 3010 Acid Digestion	EM2	08/08/23	1545	2472540

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Certificate of Analysis

Report Date: August 21, 2023

Company : Westinghouse Electric Co. LLC
Address : 5801 Bluff Road

Hopkins, South Carolina 29061
Contact: Diana Joyner
Project: Middle Ditch

Client Sample ID: CB-120A-SED-20230803 Project: WNUC01223
Sample ID: 632081003 Client ID: WNUC010

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
SW846 1311	SW846 1311	TCLP Leaching		RXB5	08/07/23		1420		2471840		

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	SW846 9056A		
2	SW846 3010A/6020B		
3	EPA 350.1 Modified SC		
4	SW846 8260D		

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Bromofluorobenzene	SW846 8260 Volatiles "Dry Weight Corrected"	68.8 ug/kg	50.0	100	(70%-130%)
1,2-Dichloroethane-d4	SW846 8260 Volatiles "Dry Weight Corrected"	71.1 ug/kg	50.0	104	(76%-127%)
Toluene-d8	SW846 8260 Volatiles "Dry Weight Corrected"	69.6 ug/kg	50.0	101	(81%-120%)

Notes:

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 21, 2023

Company : Westinghouse Electric Co. LLC
Address : 5801 Bluff Road

Hopkins, South Carolina 29061

Contact: Diana Joyner
Project: Middle Ditch

Client Sample ID: CB-120B-SOIL-20230803 Project: WNUC01223
Sample ID: 632081004 Client ID: WNUC010
Matrix: Soil
Collect Date: 03-AUG-23 10:41
Receive Date: 03-AUG-23
Collector: Client
Moisture: 26.3%

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride and Nitrate "Dry Weight Corrected"												
Fluoride	J	0.749	0.444	1.30	mg/kg	9.62	1	JLD1	08/04/23	2252	2471784	1
Nitrate-N	J	0.434	0.430	1.30	mg/kg	9.62	1					
Metals Analysis-ICP-MS												
TCLP ICP-MS Metals "As Received"												
Nickel		0.0528	0.00600	0.0200	mg/L	10.0	1	BCD1	08/17/23	1005	2472541	2
Nutrient Analysis												
EPA 350.1 Nitrogen, Ammonia "Dry Weight Corrected"												
Nitrogen, Ammonia		9.01	1.00	2.78	mg/kg	41.0	1	AXH3	08/09/23	1409	2471486	3
Volatile Organics												
SW846 8260 Volatiles "Dry Weight Corrected"												
1,1,1-Trichloroethane	U	0.401	0.401	1.20	ug/kg	0.888	1	PXY1	08/13/23	1339	2475725	4
1,1,2,2-Tetrachloroethane	U	0.401	0.401	1.20	ug/kg	0.888	1					
1,1,2-Trichloroethane	U	0.401	0.401	1.20	ug/kg	0.888	1					
1,1-Dichloroethane	U	0.401	0.401	1.20	ug/kg	0.888	1					
1,1-Dichloroethylene	U	0.401	0.401	1.20	ug/kg	0.888	1					
1,2,3-Trichlorobenzene	U	0.401	0.401	1.20	ug/kg	0.888	1					
1,2,4-Trichlorobenzene	U	0.401	0.401	1.20	ug/kg	0.888	1					
1,2-Dibromo-3-chloropropane	U	0.602	0.602	1.20	ug/kg	0.888	1					
1,2-Dibromoethane	U	0.401	0.401	1.20	ug/kg	0.888	1					
1,2-Dichlorobenzene	U	0.401	0.401	1.20	ug/kg	0.888	1					
1,2-Dichloroethane	U	0.401	0.401	1.20	ug/kg	0.888	1					
1,2-Dichloropropane	U	0.401	0.401	1.20	ug/kg	0.888	1					
1,3-Dichlorobenzene	U	0.401	0.401	1.20	ug/kg	0.888	1					
1,4-Dichlorobenzene	U	0.401	0.401	1.20	ug/kg	0.888	1					
1-Chlorohexane	U	0.401	0.401	1.20	ug/kg	0.888	1					
2-Butanone	U	2.01	2.01	6.02	ug/kg	0.888	1					
2-Hexanone	U	2.01	2.01	6.02	ug/kg	0.888	1					
4-Methyl-2-pentanone	U	2.01	2.01	6.02	ug/kg	0.888	1					
Acetone		26.0	2.01	6.02	ug/kg	0.888	1					
Benzene	U	0.401	0.401	1.20	ug/kg	0.888	1					
Bromochloromethane	U	0.401	0.401	1.20	ug/kg	0.888	1					
Bromodichloromethane	U	0.401	0.401	1.20	ug/kg	0.888	1					
Bromoform	U	0.401	0.401	1.20	ug/kg	0.888	1					
Bromomethane	U	0.401	0.401	1.20	ug/kg	0.888	1					

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Certificate of Analysis

Report Date: August 21, 2023

Company : Westinghouse Electric Co. LLC
Address : 5801 Bluff Road

Contact: Hopkins, South Carolina 29061
Diana Joyner
Project: Middle Ditch

Client Sample ID: CB-120B-SOIL-20230803
Sample ID: 632081004

Project: WNUC01223
Client ID: WNUC010

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
SW846 8260 Volatiles "Dry Weight Corrected"												
Carbon disulfide	U	2.01	2.01	6.02	ug/kg	0.888	1					
Carbon tetrachloride	U	0.401	0.401	1.20	ug/kg	0.888	1					
Chlorobenzene	U	0.401	0.401	1.20	ug/kg	0.888	1					
Chloroethane	U	0.401	0.401	1.20	ug/kg	0.888	1					
Chloroform	U	0.401	0.401	1.20	ug/kg	0.888	1					
Chloromethane	U	0.401	0.401	1.20	ug/kg	0.888	1					
Cyclohexane	U	0.401	0.401	1.20	ug/kg	0.888	1					
Dibromochloromethane	U	0.401	0.401	1.20	ug/kg	0.888	1					
Dichlorodifluoromethane	U	0.401	0.401	1.20	ug/kg	0.888	1					
Ethylbenzene	U	0.401	0.401	1.20	ug/kg	0.888	1					
Isopropylbenzene	U	0.401	0.401	1.20	ug/kg	0.888	1					
Methyl acetate	U	2.01	2.01	6.02	ug/kg	0.888	1					
Methylcyclohexane	U	0.401	0.401	1.20	ug/kg	0.888	1					
Methylene chloride	U	2.01	2.01	6.02	ug/kg	0.888	1					
Naphthalene	U	0.401	0.401	1.20	ug/kg	0.888	1					
Styrene	U	0.401	0.401	1.20	ug/kg	0.888	1					
Tetrachloroethylene	U	0.401	0.401	1.20	ug/kg	0.888	1					
Toluene	U	0.401	0.401	1.20	ug/kg	0.888	1					
Trichloroethylene	U	0.401	0.401	1.20	ug/kg	0.888	1					
Trichlorofluoromethane	U	0.401	0.401	1.20	ug/kg	0.888	1					
Trichlorotrifluoroethane	U	2.01	2.01	6.02	ug/kg	0.888	1					
Vinyl chloride	U	0.401	0.401	1.20	ug/kg	0.888	1					
cis-1,2-Dichloroethylene	U	0.401	0.401	1.20	ug/kg	0.888	1					
cis-1,3-Dichloropropylene	U	0.401	0.401	1.20	ug/kg	0.888	1					
m,p-Xylenes	U	0.804	0.804	2.41	ug/kg	0.888	1					
o-Xylene	U	0.401	0.401	1.20	ug/kg	0.888	1					
tert-Butyl methyl ether	U	0.401	0.401	1.20	ug/kg	0.888	1					
trans-1,2-Dichloroethylene	U	0.401	0.401	1.20	ug/kg	0.888	1					
trans-1,3-Dichloropropylene	U	0.401	0.401	1.20	ug/kg	0.888	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9056A	SW846 9056A Total Anions in Soil	VN1	08/04/23	1818	2471783
SW846 3010A	TCLP SW 846 3010 Acid Digestion	EM2	08/08/23	1545	2472540
SW846 5035	5035 Prep	PXY1	08/03/23	1041	2475724
SW846 1311	SW846 1311 TCLP Leaching	RXB5	08/07/23	1420	2471840

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: August 21, 2023

Company : Westinghouse Electric Co. LLC
Address : 5801 Bluff Road

Hopkins, South Carolina 29061
Contact: Diana Joyner
Project: Middle Ditch

Client Sample ID: CB-120B-SOIL-20230803 Project: WNUC01223
Sample ID: 632081004 Client ID: WNUC010

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
EPA 350.1 Modified Prep	EPA 350.1 Mod. Ammonia Nitrogen Prep		ES2		08/09/23		1132		2471485		

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	SW846 9056A		
2	SW846 3010A/6020B		
3	EPA 350.1 Modified SC		
4	SW846 8260D		

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Bromofluorobenzene	SW846 8260 Volatiles "Dry Weight Corrected"	61.6 ug/kg	50.0	102	(70%-130%)
1,2-Dichloroethane-d4	SW846 8260 Volatiles "Dry Weight Corrected"	61.4 ug/kg	50.0	102	(76%-127%)
Toluene-d8	SW846 8260 Volatiles "Dry Weight Corrected"	64.5 ug/kg	50.0	107	(81%-120%)

Notes:

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 21, 2023

Company : Westinghouse Electric Co. LLC
Address : 5801 Bluff Road

Hopkins, South Carolina 29061

Contact: Diana Joyner
Project: Middle Ditch

Client Sample ID: CB-119A-SED-20230803 Project: WNUC01223
Sample ID: 632081005 Client ID: WNUC010
Matrix: Solid
Collect Date: 03-AUG-23 10:50
Receive Date: 03-AUG-23
Collector: Client
Moisture: 21.5%

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride and Nitrate "Dry Weight Corrected"												
Fluoride		1.29	0.421	1.24	mg/kg	9.71	1	JLD1	08/04/23	2324	2471784	1
Nitrate-N	J	0.590	0.408	1.24	mg/kg	9.71	1					
Metals Analysis-ICP-MS												
TCLP ICP-MS Metals "As Received"												
Nickel	U	0.00600	0.00600	0.0200	mg/L	10.0	1	BCD1	08/17/23	1007	2472541	2
Nutrient Analysis												
EPA 350.1 Nitrogen, Ammonia "Dry Weight Corrected"												
Nitrogen, Ammonia		8.34	1.04	2.90	mg/kg	45.5	1	AXH3	08/09/23	1411	2471486	3
Volatile Organics												
SW846 8260 Volatiles "Dry Weight Corrected"												
1,1,1-Trichloroethane	U	0.321	0.321	0.965	ug/kg	0.758	1	PXY1	08/13/23	1409	2475725	4
1,1,2,2-Tetrachloroethane	U	0.321	0.321	0.965	ug/kg	0.758	1					
1,1,2-Trichloroethane	U	0.321	0.321	0.965	ug/kg	0.758	1					
1,1-Dichloroethane	U	0.321	0.321	0.965	ug/kg	0.758	1					
1,1-Dichloroethylene	U	0.321	0.321	0.965	ug/kg	0.758	1					
1,2,3-Trichlorobenzene	U	0.321	0.321	0.965	ug/kg	0.758	1					
1,2,4-Trichlorobenzene	U	0.321	0.321	0.965	ug/kg	0.758	1					
1,2-Dibromo-3-chloropropane	U	0.483	0.483	0.965	ug/kg	0.758	1					
1,2-Dibromoethane	U	0.321	0.321	0.965	ug/kg	0.758	1					
1,2-Dichlorobenzene	U	0.321	0.321	0.965	ug/kg	0.758	1					
1,2-Dichloroethane	U	0.321	0.321	0.965	ug/kg	0.758	1					
1,2-Dichloropropane	U	0.321	0.321	0.965	ug/kg	0.758	1					
1,3-Dichlorobenzene	U	0.321	0.321	0.965	ug/kg	0.758	1					
1,4-Dichlorobenzene	U	0.321	0.321	0.965	ug/kg	0.758	1					
1-Chlorohexane	U	0.321	0.321	0.965	ug/kg	0.758	1					
2-Butanone	U	1.61	1.61	4.83	ug/kg	0.758	1					
2-Hexanone	U	1.61	1.61	4.83	ug/kg	0.758	1					
4-Methyl-2-pentanone	U	1.61	1.61	4.83	ug/kg	0.758	1					
Acetone	U	1.61	1.61	4.83	ug/kg	0.758	1					
Benzene	U	0.321	0.321	0.965	ug/kg	0.758	1					
Bromochloromethane	U	0.321	0.321	0.965	ug/kg	0.758	1					
Bromodichloromethane	U	0.321	0.321	0.965	ug/kg	0.758	1					
Bromoform	U	0.321	0.321	0.965	ug/kg	0.758	1					
Bromomethane	U	0.321	0.321	0.965	ug/kg	0.758	1					

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Certificate of Analysis

Report Date: August 21, 2023

Company : Westinghouse Electric Co. LLC
Address : 5801 Bluff Road

Hopkins, South Carolina 29061
Contact: Diana Joyner
Project: Middle Ditch

Client Sample ID: CB-119A-SED-20230803
Sample ID: 632081005

Project: WNUC01223
Client ID: WNUC010

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
SW846 8260 Volatiles "Dry Weight Corrected"												
Carbon disulfide	U	1.61	1.61	4.83	ug/kg	0.758	1					
Carbon tetrachloride	U	0.321	0.321	0.965	ug/kg	0.758	1					
Chlorobenzene	U	0.321	0.321	0.965	ug/kg	0.758	1					
Chloroethane	U	0.321	0.321	0.965	ug/kg	0.758	1					
Chloroform	U	0.321	0.321	0.965	ug/kg	0.758	1					
Chloromethane	U	0.321	0.321	0.965	ug/kg	0.758	1					
Cyclohexane	U	0.321	0.321	0.965	ug/kg	0.758	1					
Dibromochloromethane	U	0.321	0.321	0.965	ug/kg	0.758	1					
Dichlorodifluoromethane	U	0.321	0.321	0.965	ug/kg	0.758	1					
Ethylbenzene	U	0.321	0.321	0.965	ug/kg	0.758	1					
Isopropylbenzene	U	0.321	0.321	0.965	ug/kg	0.758	1					
Methyl acetate	U	1.61	1.61	4.83	ug/kg	0.758	1					
Methylcyclohexane	U	0.321	0.321	0.965	ug/kg	0.758	1					
Methylene chloride	U	1.61	1.61	4.83	ug/kg	0.758	1					
Naphthalene	U	0.321	0.321	0.965	ug/kg	0.758	1					
Styrene	U	0.321	0.321	0.965	ug/kg	0.758	1					
Tetrachloroethylene	U	0.321	0.321	0.965	ug/kg	0.758	1					
Toluene	U	0.321	0.321	0.965	ug/kg	0.758	1					
Trichloroethylene	U	0.321	0.321	0.965	ug/kg	0.758	1					
Trichlorofluoromethane	U	0.321	0.321	0.965	ug/kg	0.758	1					
Trichlorotrifluoroethane	U	1.61	1.61	4.83	ug/kg	0.758	1					
Vinyl chloride	U	0.321	0.321	0.965	ug/kg	0.758	1					
cis-1,2-Dichloroethylene	U	0.321	0.321	0.965	ug/kg	0.758	1					
cis-1,3-Dichloropropylene	U	0.321	0.321	0.965	ug/kg	0.758	1					
m,p-Xylenes	U	0.644	0.644	1.93	ug/kg	0.758	1					
o-Xylene	U	0.321	0.321	0.965	ug/kg	0.758	1					
tert-Butyl methyl ether	U	0.321	0.321	0.965	ug/kg	0.758	1					
trans-1,2-Dichloroethylene	U	0.321	0.321	0.965	ug/kg	0.758	1					
trans-1,3-Dichloropropylene	U	0.321	0.321	0.965	ug/kg	0.758	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 350.1 Modified Prep	EPA 350.1 Mod. Ammonia Nitrogen Prep	ES2	08/09/23	1132	2471485
SW846 9056A	SW846 9056A Total Anions in Soil	VN1	08/04/23	1818	2471783
SW846 5035	5035 Prep	PXY1	08/03/23	1050	2475724
SW846 1311	SW846 1311 TCLP Leaching	RXB5	08/07/23	1420	2471840

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Certificate of Analysis

Report Date: August 21, 2023

Company : Westinghouse Electric Co. LLC
Address : 5801 Bluff Road

Hopkins, South Carolina 29061
Contact: Diana Joyner
Project: Middle Ditch

Client Sample ID: CB-119A-SED-20230803 Project: WNUC01223
Sample ID: 632081005 Client ID: WNUC010

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
SW846 3010A	TCLP SW 846 3010	Acid Digestion		EM2	08/08/23		1545		2472540		

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	SW846 9056A		
2	SW846 3010A/6020B		
3	EPA 350.1 Modified SC		
4	SW846 8260D		

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Bromofluorobenzene	SW846 8260 Volatiles "Dry Weight Corrected"	48.1 ug/kg	50.0	100	(70%-130%)
1,2-Dichloroethane-d4	SW846 8260 Volatiles "Dry Weight Corrected"	49.1 ug/kg	50.0	102	(76%-127%)
Toluene-d8	SW846 8260 Volatiles "Dry Weight Corrected"	49.6 ug/kg	50.0	103	(81%-120%)

Notes:

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 21, 2023

Company : Westinghouse Electric Co. LLC
Address : 5801 Bluff Road

Hopkins, South Carolina 29061

Contact: Diana Joyner
Project: Middle Ditch

Client Sample ID: CB-119B-SED-20230803 Project: WNUC01223
Sample ID: 632081006 Client ID: WNUC010
Matrix: Solid
Collect Date: 03-AUG-23 10:59
Receive Date: 03-AUG-23
Collector: Client
Moisture: 16.7%

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride and Nitrate "Dry Weight Corrected"												
Fluoride	J	0.429	0.392	1.15	mg/kg	9.59	1	JLD1	08/04/23	2356	2471784	1
Nitrate-N	U	0.380	0.380	1.15	mg/kg	9.59	1					
Metals Analysis-ICP-MS												
TCLP ICP-MS Metals "As Received"												
Nickel	U	0.00600	0.00600	0.0200	mg/L	10.0	1	BCD1	08/17/23	1009	2472541	2
Nutrient Analysis												
EPA 350.1 Nitrogen, Ammonia "Dry Weight Corrected"												
Nitrogen, Ammonia		28.1	0.886	2.46	mg/kg	41.0	1	AXH3	08/09/23	1412	2471486	3
Volatile Organics												
SW846 8260 Volatiles "Dry Weight Corrected"												
1,1,1-Trichloroethane	U	0.369	0.369	1.11	ug/kg	0.923	1	PXY1	08/13/23	1439	2475725	4
1,1,2,2-Tetrachloroethane	U	0.369	0.369	1.11	ug/kg	0.923	1					
1,1,2-Trichloroethane	U	0.369	0.369	1.11	ug/kg	0.923	1					
1,1-Dichloroethane	U	0.369	0.369	1.11	ug/kg	0.923	1					
1,1-Dichloroethylene	U	0.369	0.369	1.11	ug/kg	0.923	1					
1,2,3-Trichlorobenzene	U	0.369	0.369	1.11	ug/kg	0.923	1					
1,2,4-Trichlorobenzene	U	0.369	0.369	1.11	ug/kg	0.923	1					
1,2-Dibromo-3-chloropropane	U	0.554	0.554	1.11	ug/kg	0.923	1					
1,2-Dibromoethane	U	0.369	0.369	1.11	ug/kg	0.923	1					
1,2-Dichlorobenzene	U	0.369	0.369	1.11	ug/kg	0.923	1					
1,2-Dichloroethane	U	0.369	0.369	1.11	ug/kg	0.923	1					
1,2-Dichloropropane	U	0.369	0.369	1.11	ug/kg	0.923	1					
1,3-Dichlorobenzene	U	0.369	0.369	1.11	ug/kg	0.923	1					
1,4-Dichlorobenzene	U	0.369	0.369	1.11	ug/kg	0.923	1					
1-Chlorohexane	U	0.369	0.369	1.11	ug/kg	0.923	1					
2-Butanone	U	1.85	1.85	5.54	ug/kg	0.923	1					
2-Hexanone	U	1.85	1.85	5.54	ug/kg	0.923	1					
4-Methyl-2-pentanone	U	1.85	1.85	5.54	ug/kg	0.923	1					
Acetone	J	2.50	1.85	5.54	ug/kg	0.923	1					
Benzene	U	0.369	0.369	1.11	ug/kg	0.923	1					
Bromochloromethane	U	0.369	0.369	1.11	ug/kg	0.923	1					
Bromodichloromethane	U	0.369	0.369	1.11	ug/kg	0.923	1					
Bromoform	U	0.369	0.369	1.11	ug/kg	0.923	1					
Bromomethane	U	0.369	0.369	1.11	ug/kg	0.923	1					

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Certificate of Analysis

Report Date: August 21, 2023

Company : Westinghouse Electric Co. LLC
Address : 5801 Bluff Road

Hopkins, South Carolina 29061

Contact: Diana Joyner
Project: Middle Ditch

Client Sample ID: CB-119B-SED-20230803
Sample ID: 632081006

Project: WNUC01223
Client ID: WNUC010

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
SW846 8260 Volatiles "Dry Weight Corrected"												
Carbon disulfide	U	1.85	1.85	5.54	ug/kg	0.923	1					
Carbon tetrachloride	U	0.369	0.369	1.11	ug/kg	0.923	1					
Chlorobenzene	U	0.369	0.369	1.11	ug/kg	0.923	1					
Chloroethane	U	0.369	0.369	1.11	ug/kg	0.923	1					
Chloroform	U	0.369	0.369	1.11	ug/kg	0.923	1					
Chloromethane	U	0.369	0.369	1.11	ug/kg	0.923	1					
Cyclohexane	U	0.369	0.369	1.11	ug/kg	0.923	1					
Dibromochloromethane	U	0.369	0.369	1.11	ug/kg	0.923	1					
Dichlorodifluoromethane	U	0.369	0.369	1.11	ug/kg	0.923	1					
Ethylbenzene	U	0.369	0.369	1.11	ug/kg	0.923	1					
Isopropylbenzene	U	0.369	0.369	1.11	ug/kg	0.923	1					
Methyl acetate	U	1.85	1.85	5.54	ug/kg	0.923	1					
Methylcyclohexane	U	0.369	0.369	1.11	ug/kg	0.923	1					
Methylene chloride	U	1.85	1.85	5.54	ug/kg	0.923	1					
Naphthalene	U	0.369	0.369	1.11	ug/kg	0.923	1					
Styrene	U	0.369	0.369	1.11	ug/kg	0.923	1					
Tetrachloroethylene	U	0.369	0.369	1.11	ug/kg	0.923	1					
Toluene	U	0.369	0.369	1.11	ug/kg	0.923	1					
Trichloroethylene	U	0.369	0.369	1.11	ug/kg	0.923	1					
Trichlorofluoromethane	U	0.369	0.369	1.11	ug/kg	0.923	1					
Trichlorotrifluoroethane	U	1.85	1.85	5.54	ug/kg	0.923	1					
Vinyl chloride	U	0.369	0.369	1.11	ug/kg	0.923	1					
cis-1,2-Dichloroethylene	U	0.369	0.369	1.11	ug/kg	0.923	1					
cis-1,3-Dichloropropylene	U	0.369	0.369	1.11	ug/kg	0.923	1					
m,p-Xylenes	U	0.739	0.739	2.22	ug/kg	0.923	1					
o-Xylene	U	0.369	0.369	1.11	ug/kg	0.923	1					
tert-Butyl methyl ether	U	0.369	0.369	1.11	ug/kg	0.923	1					
trans-1,2-Dichloroethylene	U	0.369	0.369	1.11	ug/kg	0.923	1					
trans-1,3-Dichloropropylene	U	0.369	0.369	1.11	ug/kg	0.923	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 350.1 Modified Prep	EPA 350.1 Mod. Ammonia Nitrogen Prep	ES2	08/09/23	1132	2471485
SW846 9056A	SW846 9056A Total Anions in Soil	VN1	08/04/23	1818	2471783
SW846 3010A	TCLP SW 846 3010 Acid Digestion	EM2	08/08/23	1545	2472540
SW846 1311	SW846 1311 TCLP Leaching	RXB5	08/07/23	1420	2471840

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: August 21, 2023

Company : Westinghouse Electric Co. LLC
Address : 5801 Bluff Road

Hopkins, South Carolina 29061
Contact: Diana Joyner
Project: Middle Ditch

Client Sample ID: CB-119B-SED-20230803 Project: WNUC01223
Sample ID: 632081006 Client ID: WNUC010

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
SW846 5035	5035 Prep			PXY1	08/03/23		1059		2475724		

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	SW846 9056A		
2	SW846 3010A/6020B		
3	EPA 350.1 Modified SC		
4	SW846 8260D		

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Bromofluorobenzene	SW846 8260 Volatiles "Dry Weight Corrected"	56.7 ug/kg	50.0	102	(70%-130%)
1,2-Dichloroethane-d4	SW846 8260 Volatiles "Dry Weight Corrected"	58.4 ug/kg	50.0	106	(76%-127%)
Toluene-d8	SW846 8260 Volatiles "Dry Weight Corrected"	56.4 ug/kg	50.0	102	(81%-120%)

Notes:

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 21, 2023

Company : Westinghouse Electric Co. LLC
Address : 5801 Bluff Road

Hopkins, South Carolina 29061

Contact: Diana Joyner
Project: Middle Ditch

Client Sample ID: CB-118A-SOIL-20230803 Project: WNUC01223
Sample ID: 632081007 Client ID: WNUC010
Matrix: Soil
Collect Date: 03-AUG-23 08:46
Receive Date: 03-AUG-23
Collector: Client
Moisture: 21.2%

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride and Nitrate "Dry Weight Corrected"												
Fluoride		3.11	0.432	1.27	mg/kg	10.0	1	JLD1	08/05/23	10131	2471784	1
Nitrate-N	U	0.419	0.419	1.27	mg/kg	10.0	1					
Metals Analysis-ICP-MS												
TCLP ICP-MS Metals "As Received"												
Nickel	J	0.00607	0.00600	0.0200	mg/L	10.0	1	BCD1	08/17/23	10111	2472541	2
Nutrient Analysis												
EPA 350.1 Nitrogen, Ammonia "Dry Weight Corrected"												
Nitrogen, Ammonia		40.4	1.14	3.17	mg/kg	50.0	1	AXH3	08/09/23	1416	2471486	3
Volatile Organics												
SW846 8260 Volatiles "Dry Weight Corrected"												
1,1,1-Trichloroethane	U	0.347	0.347	1.04	ug/kg	0.821	1	PXY1	08/13/23	1509	2475725	4
1,1,2,2-Tetrachloroethane	U	0.347	0.347	1.04	ug/kg	0.821	1					
1,1,2-Trichloroethane	U	0.347	0.347	1.04	ug/kg	0.821	1					
1,1-Dichloroethane	U	0.347	0.347	1.04	ug/kg	0.821	1					
1,1-Dichloroethylene	U	0.347	0.347	1.04	ug/kg	0.821	1					
1,2,3-Trichlorobenzene	U	0.347	0.347	1.04	ug/kg	0.821	1					
1,2,4-Trichlorobenzene	U	0.347	0.347	1.04	ug/kg	0.821	1					
1,2-Dibromo-3-chloropropane	U	0.521	0.521	1.04	ug/kg	0.821	1					
1,2-Dibromoethane	U	0.347	0.347	1.04	ug/kg	0.821	1					
1,2-Dichlorobenzene	U	0.347	0.347	1.04	ug/kg	0.821	1					
1,2-Dichloroethane	U	0.347	0.347	1.04	ug/kg	0.821	1					
1,2-Dichloropropane	U	0.347	0.347	1.04	ug/kg	0.821	1					
1,3-Dichlorobenzene	U	0.347	0.347	1.04	ug/kg	0.821	1					
1,4-Dichlorobenzene	U	0.347	0.347	1.04	ug/kg	0.821	1					
1-Chlorohexane	U	0.347	0.347	1.04	ug/kg	0.821	1					
2-Butanone	U	1.74	1.74	5.21	ug/kg	0.821	1					
2-Hexanone	U	1.74	1.74	5.21	ug/kg	0.821	1					
4-Methyl-2-pentanone	U	1.74	1.74	5.21	ug/kg	0.821	1					
Acetone	U	1.74	1.74	5.21	ug/kg	0.821	1					
Benzene	U	0.347	0.347	1.04	ug/kg	0.821	1					
Bromochloromethane	U	0.347	0.347	1.04	ug/kg	0.821	1					
Bromodichloromethane	U	0.347	0.347	1.04	ug/kg	0.821	1					
Bromoform	U	0.347	0.347	1.04	ug/kg	0.821	1					
Bromomethane	U	0.347	0.347	1.04	ug/kg	0.821	1					

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: August 21, 2023

Company : Westinghouse Electric Co. LLC
Address : 5801 Bluff Road

Contact: Hopkins, South Carolina 29061
Diana Joyner
Project: Middle Ditch

Client Sample ID: CB-118A-SOIL-20230803
Sample ID: 632081007

Project: WNUC01223
Client ID: WNUC010

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
SW846 8260 Volatiles "Dry Weight Corrected"												
Carbon disulfide	U	1.74	1.74	5.21	ug/kg	0.821	1					
Carbon tetrachloride	U	0.347	0.347	1.04	ug/kg	0.821	1					
Chlorobenzene	U	0.347	0.347	1.04	ug/kg	0.821	1					
Chloroethane	U	0.347	0.347	1.04	ug/kg	0.821	1					
Chloroform	U	0.347	0.347	1.04	ug/kg	0.821	1					
Chloromethane	U	0.347	0.347	1.04	ug/kg	0.821	1					
Cyclohexane	U	0.347	0.347	1.04	ug/kg	0.821	1					
Dibromochloromethane	U	0.347	0.347	1.04	ug/kg	0.821	1					
Dichlorodifluoromethane	U	0.347	0.347	1.04	ug/kg	0.821	1					
Ethylbenzene	U	0.347	0.347	1.04	ug/kg	0.821	1					
Isopropylbenzene	U	0.347	0.347	1.04	ug/kg	0.821	1					
Methyl acetate	U	1.74	1.74	5.21	ug/kg	0.821	1					
Methylcyclohexane	U	0.347	0.347	1.04	ug/kg	0.821	1					
Methylene chloride	U	1.74	1.74	5.21	ug/kg	0.821	1					
Naphthalene	U	0.347	0.347	1.04	ug/kg	0.821	1					
Styrene	U	0.347	0.347	1.04	ug/kg	0.821	1					
Tetrachloroethylene	U	0.347	0.347	1.04	ug/kg	0.821	1					
Toluene	U	0.347	0.347	1.04	ug/kg	0.821	1					
Trichloroethylene	U	0.347	0.347	1.04	ug/kg	0.821	1					
Trichlorofluoromethane	U	0.347	0.347	1.04	ug/kg	0.821	1					
Trichlorotrifluoroethane	U	1.74	1.74	5.21	ug/kg	0.821	1					
Vinyl chloride	U	0.347	0.347	1.04	ug/kg	0.821	1					
cis-1,2-Dichloroethylene	U	0.347	0.347	1.04	ug/kg	0.821	1					
cis-1,3-Dichloropropylene	U	0.347	0.347	1.04	ug/kg	0.821	1					
m,p-Xylenes	U	0.695	0.695	2.08	ug/kg	0.821	1					
o-Xylene	U	0.347	0.347	1.04	ug/kg	0.821	1					
tert-Butyl methyl ether	U	0.347	0.347	1.04	ug/kg	0.821	1					
trans-1,2-Dichloroethylene	U	0.347	0.347	1.04	ug/kg	0.821	1					
trans-1,3-Dichloropropylene	U	0.347	0.347	1.04	ug/kg	0.821	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3010A	TCLP SW 846 3010 Acid Digestion	EM2	08/08/23	1545	2472540
SW846 1311	SW846 1311 TCLP Leaching	RXB5	08/07/23	1420	2471840
SW846 5035	5035 Prep	PXY1	08/03/23	0846	2475724
EPA 350.1 Modified Prep	EPA 350.1 Mod. Ammonia Nitrogen Prep	ES2	08/09/23	1132	2471485

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Certificate of Analysis

Report Date: August 21, 2023

Company : Westinghouse Electric Co. LLC
Address : 5801 Bluff Road

Hopkins, South Carolina 29061
Contact: Diana Joyner
Project: Middle Ditch

Client Sample ID: CB-118A-SOIL-20230803 Project: WNUC01223
Sample ID: 632081007 Client ID: WNUC010

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
SW846 9056A	SW846 9056A	Total Anions in Soil		VN1	08/04/23		1818		2471783		

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	SW846 9056A		
2	SW846 3010A/6020B		
3	EPA 350.1 Modified SC		
4	SW846 8260D		

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Bromofluorobenzene	SW846 8260 Volatiles "Dry Weight Corrected"	53.3 ug/kg	50.0	102	(70%-130%)
1,2-Dichloroethane-d4	SW846 8260 Volatiles "Dry Weight Corrected"	55.8 ug/kg	50.0	107	(76%-127%)
Toluene-d8	SW846 8260 Volatiles "Dry Weight Corrected"	53.3 ug/kg	50.0	102	(81%-120%)

Notes:

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 21, 2023

Company : Westinghouse Electric Co. LLC
 Address : 5801 Bluff Road

Hopkins, South Carolina 29061

Contact: Diana Joyner
 Project: Middle Ditch

Client Sample ID: CB-118B-SOIL-20230803	Project: WNUC01223
Sample ID: 632081008	Client ID: WNUC010
Matrix: Soil	
Collect Date: 03-AUG-23 08:56	
Receive Date: 03-AUG-23	
Collector: Client	
Moisture: 20.7%	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride and Nitrate "Dry Weight Corrected"												
Fluoride		4.50	0.409	1.20	mg/kg	9.55	1	JLD1	08/05/23	0203	2471784	1
Nitrate-N	J	0.612	0.397	1.20	mg/kg	9.55	1					
Metals Analysis-ICP-MS												
TCLP ICP-MS Metals "As Received"												
Nickel	U	0.00600	0.00600	0.0200	mg/L	10.0	1	BCD1	08/17/23	1013	2472541	2
Nutrient Analysis												
EPA 350.1 Nitrogen, Ammonia "Dry Weight Corrected"												
Nitrogen, Ammonia		27.4	1.03	2.87	mg/kg	45.5	1	AXH3	08/09/23	1417	2471486	3
Volatile Organics												
SW846 8260 Volatiles "Dry Weight Corrected"												
1,1,1-Trichloroethane	U	0.334	0.334	1.00	ug/kg	0.795	1	PXY1	08/13/23	1538	2475725	4
1,1,2,2-Tetrachloroethane	U	0.334	0.334	1.00	ug/kg	0.795	1					
1,1,2-Trichloroethane	U	0.334	0.334	1.00	ug/kg	0.795	1					
1,1-Dichloroethane	U	0.334	0.334	1.00	ug/kg	0.795	1					
1,1-Dichloroethylene	U	0.334	0.334	1.00	ug/kg	0.795	1					
1,2,3-Trichlorobenzene	U	0.334	0.334	1.00	ug/kg	0.795	1					
1,2,4-Trichlorobenzene	U	0.334	0.334	1.00	ug/kg	0.795	1					
1,2-Dibromo-3-chloropropane	U	0.501	0.501	1.00	ug/kg	0.795	1					
1,2-Dibromoethane	U	0.334	0.334	1.00	ug/kg	0.795	1					
1,2-Dichlorobenzene	U	0.334	0.334	1.00	ug/kg	0.795	1					
1,2-Dichloroethane	U	0.334	0.334	1.00	ug/kg	0.795	1					
1,2-Dichloropropane	U	0.334	0.334	1.00	ug/kg	0.795	1					
1,3-Dichlorobenzene	U	0.334	0.334	1.00	ug/kg	0.795	1					
1,4-Dichlorobenzene	U	0.334	0.334	1.00	ug/kg	0.795	1					
1-Chlorohexane	U	0.334	0.334	1.00	ug/kg	0.795	1					
2-Butanone	U	1.67	1.67	5.01	ug/kg	0.795	1					
2-Hexanone	U	1.67	1.67	5.01	ug/kg	0.795	1					
4-Methyl-2-pentanone	U	1.67	1.67	5.01	ug/kg	0.795	1					
Acetone	U	1.67	1.67	5.01	ug/kg	0.795	1					
Benzene	U	0.334	0.334	1.00	ug/kg	0.795	1					
Bromochloromethane	U	0.334	0.334	1.00	ug/kg	0.795	1					
Bromodichloromethane	U	0.334	0.334	1.00	ug/kg	0.795	1					
Bromoform	U	0.334	0.334	1.00	ug/kg	0.795	1					
Bromomethane	U	0.334	0.334	1.00	ug/kg	0.795	1					

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Certificate of Analysis

Report Date: August 21, 2023

Company : Westinghouse Electric Co. LLC
Address : 5801 Bluff Road

Hopkins, South Carolina 29061
Contact: Diana Joyner
Project: Middle Ditch

Client Sample ID: CB-118B-SOIL-20230803
Sample ID: 632081008

Project: WNUC01223
Client ID: WNUC010

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
SW846 8260 Volatiles "Dry Weight Corrected"												
Carbon disulfide	U	1.67	1.67	5.01	ug/kg	0.795	1					
Carbon tetrachloride	U	0.334	0.334	1.00	ug/kg	0.795	1					
Chlorobenzene	U	0.334	0.334	1.00	ug/kg	0.795	1					
Chloroethane	U	0.334	0.334	1.00	ug/kg	0.795	1					
Chloroform	U	0.334	0.334	1.00	ug/kg	0.795	1					
Chloromethane	U	0.334	0.334	1.00	ug/kg	0.795	1					
Cyclohexane	U	0.334	0.334	1.00	ug/kg	0.795	1					
Dibromochloromethane	U	0.334	0.334	1.00	ug/kg	0.795	1					
Dichlorodifluoromethane	U	0.334	0.334	1.00	ug/kg	0.795	1					
Ethylbenzene	U	0.334	0.334	1.00	ug/kg	0.795	1					
Isopropylbenzene	U	0.334	0.334	1.00	ug/kg	0.795	1					
Methyl acetate	U	1.67	1.67	5.01	ug/kg	0.795	1					
Methylcyclohexane	U	0.334	0.334	1.00	ug/kg	0.795	1					
Methylene chloride	U	1.67	1.67	5.01	ug/kg	0.795	1					
Naphthalene	U	0.334	0.334	1.00	ug/kg	0.795	1					
Styrene	U	0.334	0.334	1.00	ug/kg	0.795	1					
Tetrachloroethylene	U	0.334	0.334	1.00	ug/kg	0.795	1					
Toluene	U	0.334	0.334	1.00	ug/kg	0.795	1					
Trichloroethylene	U	0.334	0.334	1.00	ug/kg	0.795	1					
Trichlorofluoromethane	U	0.334	0.334	1.00	ug/kg	0.795	1					
Trichlorotrifluoroethane	U	1.67	1.67	5.01	ug/kg	0.795	1					
Vinyl chloride	U	0.334	0.334	1.00	ug/kg	0.795	1					
cis-1,2-Dichloroethylene	U	0.334	0.334	1.00	ug/kg	0.795	1					
cis-1,3-Dichloropropylene	U	0.334	0.334	1.00	ug/kg	0.795	1					
m,p-Xylenes	U	0.669	0.669	2.01	ug/kg	0.795	1					
o-Xylene	U	0.334	0.334	1.00	ug/kg	0.795	1					
tert-Butyl methyl ether	U	0.334	0.334	1.00	ug/kg	0.795	1					
trans-1,2-Dichloroethylene	U	0.334	0.334	1.00	ug/kg	0.795	1					
trans-1,3-Dichloropropylene	U	0.334	0.334	1.00	ug/kg	0.795	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 5035	5035 Prep	PXY1	08/03/23	0856	2475724
EPA 350.1 Modified Prep	EPA 350.1 Mod. Ammonia Nitrogen Prep	ES2	08/09/23	1132	2471485
SW846 1311	SW846 1311 TCLP Leaching	RXB5	08/07/23	1420	2471840
SW846 9056A	SW846 9056A Total Anions in Soil	VN1	08/04/23	1818	2471783

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Certificate of Analysis

Report Date: August 21, 2023

Company : Westinghouse Electric Co. LLC
Address : 5801 Bluff Road

Hopkins, South Carolina 29061
Contact: Diana Joyner
Project: Middle Ditch

Client Sample ID: CB-118B-SOIL-20230803 Project: WNUC01223
Sample ID: 632081008 Client ID: WNUC010

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
SW846 3010A	TCLP SW 846 3010	Acid Digestion		EM2	08/08/23		1545		2472540		

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	SW846 9056A		
2	SW846 3010A/6020B		
3	EPA 350.1 Modified SC		
4	SW846 8260D		

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Bromofluorobenzene	SW846 8260 Volatiles "Dry Weight Corrected"	51.9 ug/kg	50.0	103	(70%-130%)
1,2-Dichloroethane-d4	SW846 8260 Volatiles "Dry Weight Corrected"	52.2 ug/kg	50.0	104	(76%-127%)
Toluene-d8	SW846 8260 Volatiles "Dry Weight Corrected"	50.8 ug/kg	50.0	101	(81%-120%)

Notes:

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 21, 2023

Company : Westinghouse Electric Co. LLC
Address : 5801 Bluff Road

Hopkins, South Carolina 29061

Contact: Diana Joyner
Project: Middle Ditch

Client Sample ID: CB-116A-SOIL-20230803 Project: WNUC01223
Sample ID: 632081009 Client ID: WNUC010
Matrix: Soil
Collect Date: 03-AUG-23 09:10
Receive Date: 03-AUG-23
Collector: Client
Moisture: 18.1%

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride and Nitrate "Dry Weight Corrected"												
Fluoride		3.86	0.406	1.19	mg/kg	9.78	1	JLD1	08/05/23	0235	2471784	1
Nitrate-N	J	0.599	0.394	1.19	mg/kg	9.78	1					
Metals Analysis-ICP-MS												
TCLP ICP-MS Metals "As Received"												
Nickel	J	0.0132	0.00600	0.0200	mg/L	10.0	1	BCD1	08/17/23	1015	2472541	2
Nutrient Analysis												
EPA 350.1 Nitrogen, Ammonia "Dry Weight Corrected"												
Nitrogen, Ammonia		38.4	0.886	2.46	mg/kg	40.3	1	AXH3	08/09/23	1419	2471486	3
Volatile Organics												
SW846 8260 Volatiles "Dry Weight Corrected"												
1,1,1-Trichloroethane	U	0.333	0.333	0.999	ug/kg	0.818	1	PXY1	08/13/23	1608	2475725	4
1,1,2,2-Tetrachloroethane	U	0.333	0.333	0.999	ug/kg	0.818	1					
1,1,2-Trichloroethane	U	0.333	0.333	0.999	ug/kg	0.818	1					
1,1-Dichloroethane	U	0.333	0.333	0.999	ug/kg	0.818	1					
1,1-Dichloroethylene	U	0.333	0.333	0.999	ug/kg	0.818	1					
1,2,3-Trichlorobenzene	U	0.333	0.333	0.999	ug/kg	0.818	1					
1,2,4-Trichlorobenzene	U	0.333	0.333	0.999	ug/kg	0.818	1					
1,2-Dibromo-3-chloropropane	U	0.500	0.500	0.999	ug/kg	0.818	1					
1,2-Dibromoethane	U	0.333	0.333	0.999	ug/kg	0.818	1					
1,2-Dichlorobenzene	U	0.333	0.333	0.999	ug/kg	0.818	1					
1,2-Dichloroethane	U	0.333	0.333	0.999	ug/kg	0.818	1					
1,2-Dichloropropane	U	0.333	0.333	0.999	ug/kg	0.818	1					
1,3-Dichlorobenzene	U	0.333	0.333	0.999	ug/kg	0.818	1					
1,4-Dichlorobenzene	U	0.333	0.333	0.999	ug/kg	0.818	1					
1-Chlorohexane	U	0.333	0.333	0.999	ug/kg	0.818	1					
2-Butanone	U	1.67	1.67	5.00	ug/kg	0.818	1					
2-Hexanone	U	1.67	1.67	5.00	ug/kg	0.818	1					
4-Methyl-2-pentanone	U	1.67	1.67	5.00	ug/kg	0.818	1					
Acetone		5.16	1.67	5.00	ug/kg	0.818	1					
Benzene	U	0.333	0.333	0.999	ug/kg	0.818	1					
Bromochloromethane	U	0.333	0.333	0.999	ug/kg	0.818	1					
Bromodichloromethane	U	0.333	0.333	0.999	ug/kg	0.818	1					
Bromoform	U	0.333	0.333	0.999	ug/kg	0.818	1					
Bromomethane	U	0.333	0.333	0.999	ug/kg	0.818	1					

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Certificate of Analysis

Report Date: August 21, 2023

Company : Westinghouse Electric Co. LLC
Address : 5801 Bluff Road

Hopkins, South Carolina 29061

Contact: Diana Joyner
Project: Middle Ditch

Client Sample ID: CB-116A-SOIL-20230803
Sample ID: 632081009

Project: WNUC01223
Client ID: WNUC010

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
SW846 8260 Volatiles "Dry Weight Corrected"												
Carbon disulfide	U	1.67	1.67	5.00	ug/kg	0.818	1					
Carbon tetrachloride	U	0.333	0.333	0.999	ug/kg	0.818	1					
Chlorobenzene	U	0.333	0.333	0.999	ug/kg	0.818	1					
Chloroethane	U	0.333	0.333	0.999	ug/kg	0.818	1					
Chloroform	U	0.333	0.333	0.999	ug/kg	0.818	1					
Chloromethane	U	0.333	0.333	0.999	ug/kg	0.818	1					
Cyclohexane	U	0.333	0.333	0.999	ug/kg	0.818	1					
Dibromochloromethane	U	0.333	0.333	0.999	ug/kg	0.818	1					
Dichlorodifluoromethane	U	0.333	0.333	0.999	ug/kg	0.818	1					
Ethylbenzene	U	0.333	0.333	0.999	ug/kg	0.818	1					
Isopropylbenzene	U	0.333	0.333	0.999	ug/kg	0.818	1					
Methyl acetate	U	1.67	1.67	5.00	ug/kg	0.818	1					
Methylcyclohexane	U	0.333	0.333	0.999	ug/kg	0.818	1					
Methylene chloride	U	1.67	1.67	5.00	ug/kg	0.818	1					
Naphthalene	U	0.333	0.333	0.999	ug/kg	0.818	1					
Styrene	U	0.333	0.333	0.999	ug/kg	0.818	1					
Tetrachloroethylene	U	0.333	0.333	0.999	ug/kg	0.818	1					
Toluene	U	0.333	0.333	0.999	ug/kg	0.818	1					
Trichloroethylene	U	0.333	0.333	0.999	ug/kg	0.818	1					
Trichlorofluoromethane	U	0.333	0.333	0.999	ug/kg	0.818	1					
Trichlorotrifluoroethane	U	1.67	1.67	5.00	ug/kg	0.818	1					
Vinyl chloride	U	0.333	0.333	0.999	ug/kg	0.818	1					
cis-1,2-Dichloroethylene	U	0.333	0.333	0.999	ug/kg	0.818	1					
cis-1,3-Dichloropropylene	U	0.333	0.333	0.999	ug/kg	0.818	1					
m,p-Xylenes	U	0.666	0.666	2.00	ug/kg	0.818	1					
o-Xylene	U	0.333	0.333	0.999	ug/kg	0.818	1					
tert-Butyl methyl ether	U	0.333	0.333	0.999	ug/kg	0.818	1					
trans-1,2-Dichloroethylene	U	0.333	0.333	0.999	ug/kg	0.818	1					
trans-1,3-Dichloropropylene	U	0.333	0.333	0.999	ug/kg	0.818	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 5035	5035 Prep	PXY1	08/03/23	0910	2475724
SW846 1311	SW846 1311 TCLP Leaching	RXB5	08/07/23	1420	2471840
SW846 3010A	TCLP SW 846 3010 Acid Digestion	EM2	08/08/23	1545	2472540
EPA 350.1 Modified Prep	EPA 350.1 Mod. Ammonia Nitrogen Prep	ES2	08/09/23	1132	2471485

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Certificate of Analysis

Report Date: August 21, 2023

Company : Westinghouse Electric Co. LLC
Address : 5801 Bluff Road

Hopkins, South Carolina 29061
Contact: Diana Joyner
Project: Middle Ditch

Client Sample ID: CB-116A-SOIL-20230803 Project: WNUC01223
Sample ID: 632081009 Client ID: WNUC010

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
SW846 9056A	SW846 9056A	Total Anions in Soil		VN1	08/04/23		1818		2471783		

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	SW846 9056A		
2	SW846 3010A/6020B		
3	EPA 350.1 Modified SC		
4	SW846 8260D		

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Bromofluorobenzene	SW846 8260 Volatiles "Dry Weight Corrected"	50.6 ug/kg	50.0	101	(70%-130%)
1,2-Dichloroethane-d4	SW846 8260 Volatiles "Dry Weight Corrected"	54.6 ug/kg	50.0	109	(76%-127%)
Toluene-d8	SW846 8260 Volatiles "Dry Weight Corrected"	49.6 ug/kg	50.0	99	(81%-120%)

Notes:

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 21, 2023

Company : Westinghouse Electric Co. LLC
Address : 5801 Bluff Road

Hopkins, South Carolina 29061

Contact: Diana Joyner
Project: Middle Ditch

Client Sample ID: CB-116B-SED-20230803 Project: WNUC01223
Sample ID: 632081010 Client ID: WNUC010
Matrix: Solid
Collect Date: 03-AUG-23 09:16
Receive Date: 03-AUG-23
Collector: Client
Moisture: 17.7%

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride and Nitrate "Dry Weight Corrected"												
Fluoride		7.03	0.397	1.17	mg/kg	9.62	1	JLD1	08/05/23	0307	2471784	1
Nitrate-N	U	0.386	0.386	1.17	mg/kg	9.62	1					
Metals Analysis-ICP-MS												
TCLP ICP-MS Metals "As Received"												
Nickel	U	0.00600	0.00600	0.0200	mg/L	10.0	1	BCD1	08/17/23	1016	2472541	2
Nutrient Analysis												
EPA 350.1 Nitrogen, Ammonia "Dry Weight Corrected"												
Nitrogen, Ammonia		17.6	0.960	2.67	mg/kg	43.9	1	AXH3	08/09/23	1420	2471486	3
Volatile Organics												
SW846 8260 Volatiles "Dry Weight Corrected"												
1,1,1-Trichloroethane	U	0.325	0.325	0.976	ug/kg	0.803	1	PXY1	08/13/23	1637	2475725	4
1,1,2,2-Tetrachloroethane	U	0.325	0.325	0.976	ug/kg	0.803	1					
1,1,2-Trichloroethane	U	0.325	0.325	0.976	ug/kg	0.803	1					
1,1-Dichloroethane	U	0.325	0.325	0.976	ug/kg	0.803	1					
1,1-Dichloroethylene	U	0.325	0.325	0.976	ug/kg	0.803	1					
1,2,3-Trichlorobenzene	U	0.325	0.325	0.976	ug/kg	0.803	1					
1,2,4-Trichlorobenzene	U	0.325	0.325	0.976	ug/kg	0.803	1					
1,2-Dibromo-3-chloropropane	U	0.488	0.488	0.976	ug/kg	0.803	1					
1,2-Dibromoethane	U	0.325	0.325	0.976	ug/kg	0.803	1					
1,2-Dichloroethane	U	0.325	0.325	0.976	ug/kg	0.803	1					
1,2-Dichloroethane	U	0.325	0.325	0.976	ug/kg	0.803	1					
1,2-Dichloropropane	U	0.325	0.325	0.976	ug/kg	0.803	1					
1,3-Dichlorobenzene	U	0.325	0.325	0.976	ug/kg	0.803	1					
1,4-Dichlorobenzene	U	0.325	0.325	0.976	ug/kg	0.803	1					
1-Chlorohexane	U	0.325	0.325	0.976	ug/kg	0.803	1					
2-Butanone	U	1.63	1.63	4.88	ug/kg	0.803	1					
2-Hexanone	U	1.63	1.63	4.88	ug/kg	0.803	1					
4-Methyl-2-pentanone	U	1.63	1.63	4.88	ug/kg	0.803	1					
Acetone		5.46	1.63	4.88	ug/kg	0.803	1					
Benzene	U	0.325	0.325	0.976	ug/kg	0.803	1					
Bromochloromethane	U	0.325	0.325	0.976	ug/kg	0.803	1					
Bromodichloromethane	U	0.325	0.325	0.976	ug/kg	0.803	1					
Bromoform	U	0.325	0.325	0.976	ug/kg	0.803	1					
Bromomethane	U	0.325	0.325	0.976	ug/kg	0.803	1					

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Certificate of Analysis

Report Date: August 21, 2023

Company : Westinghouse Electric Co. LLC
Address : 5801 Bluff Road

Contact: Hopkins, South Carolina 29061
Diana Joyner
Project: Middle Ditch

Client Sample ID: CB-116B-SED-20230803
Sample ID: 632081010

Project: WNUC01223
Client ID: WNUC010

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
SW846 8260 Volatiles "Dry Weight Corrected"												
Carbon disulfide	U	1.63	1.63	4.88	ug/kg	0.803	1					
Carbon tetrachloride	U	0.325	0.325	0.976	ug/kg	0.803	1					
Chlorobenzene	U	0.325	0.325	0.976	ug/kg	0.803	1					
Chloroethane	U	0.325	0.325	0.976	ug/kg	0.803	1					
Chloroform	U	0.325	0.325	0.976	ug/kg	0.803	1					
Chloromethane	U	0.325	0.325	0.976	ug/kg	0.803	1					
Cyclohexane	U	0.325	0.325	0.976	ug/kg	0.803	1					
Dibromochloromethane	U	0.325	0.325	0.976	ug/kg	0.803	1					
Dichlorodifluoromethane	U	0.325	0.325	0.976	ug/kg	0.803	1					
Ethylbenzene	U	0.325	0.325	0.976	ug/kg	0.803	1					
Isopropylbenzene	U	0.325	0.325	0.976	ug/kg	0.803	1					
Methyl acetate	U	1.63	1.63	4.88	ug/kg	0.803	1					
Methylcyclohexane	U	0.325	0.325	0.976	ug/kg	0.803	1					
Methylene chloride	U	1.63	1.63	4.88	ug/kg	0.803	1					
Naphthalene	U	0.325	0.325	0.976	ug/kg	0.803	1					
Styrene	U	0.325	0.325	0.976	ug/kg	0.803	1					
Tetrachloroethylene	U	0.325	0.325	0.976	ug/kg	0.803	1					
Toluene	U	0.325	0.325	0.976	ug/kg	0.803	1					
Trichloroethylene	U	0.325	0.325	0.976	ug/kg	0.803	1					
Trichlorofluoromethane	U	0.325	0.325	0.976	ug/kg	0.803	1					
Trichlorotrifluoroethane	U	1.63	1.63	4.88	ug/kg	0.803	1					
Vinyl chloride	U	0.325	0.325	0.976	ug/kg	0.803	1					
cis-1,2-Dichloroethylene	U	0.325	0.325	0.976	ug/kg	0.803	1					
cis-1,3-Dichloropropylene	U	0.325	0.325	0.976	ug/kg	0.803	1					
m,p-Xylenes	U	0.651	0.651	1.95	ug/kg	0.803	1					
o-Xylene	U	0.325	0.325	0.976	ug/kg	0.803	1					
tert-Butyl methyl ether	U	0.325	0.325	0.976	ug/kg	0.803	1					
trans-1,2-Dichloroethylene	U	0.325	0.325	0.976	ug/kg	0.803	1					
trans-1,3-Dichloropropylene	U	0.325	0.325	0.976	ug/kg	0.803	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 1311	SW846 1311 TCLP Leaching	RXB5	08/07/23	1420	2471840
EPA 350.1 Modified Prep	EPA 350.1 Mod. Ammonia Nitrogen Prep	ES2	08/09/23	1132	2471485
SW846 9056A	SW846 9056A Total Anions in Soil	VN1	08/04/23	1818	2471783
SW846 5035	5035 Prep	PXY1	08/03/23	0916	2475724

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: August 21, 2023

Company : Westinghouse Electric Co. LLC
Address : 5801 Bluff Road

Hopkins, South Carolina 29061
Contact: Diana Joyner
Project: Middle Ditch

Client Sample ID: CB-116B-SED-20230803 Project: WNUC01223
Sample ID: 632081010 Client ID: WNUC010

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
SW846 3010A	TCLP SW 846 3010	Acid Digestion		EM2	08/08/23		1545		2472540		

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	SW846 9056A		
2	SW846 3010A/6020B		
3	EPA 350.1 Modified SC		
4	SW846 8260D		

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Bromofluorobenzene	SW846 8260 Volatiles "Dry Weight Corrected"	49.8 ug/kg	50.0	102	(70%-130%)
1,2-Dichloroethane-d4	SW846 8260 Volatiles "Dry Weight Corrected"	50.7 ug/kg	50.0	104	(76%-127%)
Toluene-d8	SW846 8260 Volatiles "Dry Weight Corrected"	49.3 ug/kg	50.0	101	(81%-120%)

Notes:

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 21, 2023

Company : Westinghouse Electric Co. LLC
Address : 5801 Bluff Road

Hopkins, South Carolina 29061

Contact: Diana Joyner
Project: Middle Ditch

Client Sample ID: CB-115A-SOIL-20230803 Project: WNUC01223
Sample ID: 632081011 Client ID: WNUC010
Matrix: Soil
Collect Date: 03-AUG-23 09:32
Receive Date: 03-AUG-23
Collector: Client
Moisture: 17.9%

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride and Nitrate "Dry Weight Corrected"												
Fluoride		4.78	0.400	1.18	mg/kg	9.66	1	JLD1	08/05/23	0339	2471784	1
Nitrate-N		1.69	0.389	1.18	mg/kg	9.66	1					
Metals Analysis-ICP-MS												
TCLP ICP-MS Metals "As Received"												
Nickel		0.0466	0.00600	0.0200	mg/L	10.0	1	BCD1	08/17/23	1018	2472541	2
Nutrient Analysis												
EPA 350.1 Nitrogen, Ammonia "Dry Weight Corrected"												
Nitrogen, Ammonia		95.0	4.99	13.8	mg/kg	45.5	5	AXH3	08/09/23	1421	2471486	3
Volatile Organics												
SW846 8260 Volatiles "Dry Weight Corrected"												
1,1,1-Trichloroethane	U	0.339	0.339	1.02	ug/kg	0.835	1	PXY1	08/13/23	1707	2475725	4
1,1,2,2-Tetrachloroethane	U	0.339	0.339	1.02	ug/kg	0.835	1					
1,1,2-Trichloroethane	U	0.339	0.339	1.02	ug/kg	0.835	1					
1,1-Dichloroethane	U	0.339	0.339	1.02	ug/kg	0.835	1					
1,1-Dichloroethylene	U	0.339	0.339	1.02	ug/kg	0.835	1					
1,2,3-Trichlorobenzene	U	0.339	0.339	1.02	ug/kg	0.835	1					
1,2,4-Trichlorobenzene	U	0.339	0.339	1.02	ug/kg	0.835	1					
1,2-Dibromo-3-chloropropane	U	0.509	0.509	1.02	ug/kg	0.835	1					
1,2-Dibromoethane	U	0.339	0.339	1.02	ug/kg	0.835	1					
1,2-Dichlorobenzene	U	0.339	0.339	1.02	ug/kg	0.835	1					
1,2-Dichloroethane	U	0.339	0.339	1.02	ug/kg	0.835	1					
1,2-Dichloropropane	U	0.339	0.339	1.02	ug/kg	0.835	1					
1,3-Dichlorobenzene	U	0.339	0.339	1.02	ug/kg	0.835	1					
1,4-Dichlorobenzene	U	0.339	0.339	1.02	ug/kg	0.835	1					
1-Chlorohexane	U	0.339	0.339	1.02	ug/kg	0.835	1					
2-Butanone	U	1.70	1.70	5.09	ug/kg	0.835	1					
2-Hexanone	U	1.70	1.70	5.09	ug/kg	0.835	1					
4-Methyl-2-pentanone	U	1.70	1.70	5.09	ug/kg	0.835	1					
Acetone	U	1.70	1.70	5.09	ug/kg	0.835	1					
Benzene	U	0.339	0.339	1.02	ug/kg	0.835	1					
Bromochloromethane	U	0.339	0.339	1.02	ug/kg	0.835	1					
Bromodichloromethane	U	0.339	0.339	1.02	ug/kg	0.835	1					
Bromoform	U	0.339	0.339	1.02	ug/kg	0.835	1					
Bromomethane	U	0.339	0.339	1.02	ug/kg	0.835	1					

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: August 21, 2023

Company : Westinghouse Electric Co. LLC
Address : 5801 Bluff Road

Contact: Hopkins, South Carolina 29061
Diana Joyner
Project: Middle Ditch

Client Sample ID: CB-115A-SOIL-20230803
Sample ID: 632081011

Project: WNUC01223
Client ID: WNUC010

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
SW846 8260 Volatiles "Dry Weight Corrected"												
Carbon disulfide	U	1.70	1.70	5.09	ug/kg	0.835	1					
Carbon tetrachloride	U	0.339	0.339	1.02	ug/kg	0.835	1					
Chlorobenzene	U	0.339	0.339	1.02	ug/kg	0.835	1					
Chloroethane	U	0.339	0.339	1.02	ug/kg	0.835	1					
Chloroform	U	0.339	0.339	1.02	ug/kg	0.835	1					
Chloromethane	U	0.339	0.339	1.02	ug/kg	0.835	1					
Cyclohexane	U	0.339	0.339	1.02	ug/kg	0.835	1					
Dibromochloromethane	U	0.339	0.339	1.02	ug/kg	0.835	1					
Dichlorodifluoromethane	U	0.339	0.339	1.02	ug/kg	0.835	1					
Ethylbenzene	U	0.339	0.339	1.02	ug/kg	0.835	1					
Isopropylbenzene	U	0.339	0.339	1.02	ug/kg	0.835	1					
Methyl acetate	U	1.70	1.70	5.09	ug/kg	0.835	1					
Methylcyclohexane	U	0.339	0.339	1.02	ug/kg	0.835	1					
Methylene chloride	U	1.70	1.70	5.09	ug/kg	0.835	1					
Naphthalene	U	0.339	0.339	1.02	ug/kg	0.835	1					
Styrene	U	0.339	0.339	1.02	ug/kg	0.835	1					
Tetrachloroethylene	U	0.339	0.339	1.02	ug/kg	0.835	1					
Toluene	U	0.339	0.339	1.02	ug/kg	0.835	1					
Trichloroethylene	U	0.339	0.339	1.02	ug/kg	0.835	1					
Trichlorofluoromethane	U	0.339	0.339	1.02	ug/kg	0.835	1					
Trichlorotrifluoroethane	U	1.70	1.70	5.09	ug/kg	0.835	1					
Vinyl chloride	U	0.339	0.339	1.02	ug/kg	0.835	1					
cis-1,2-Dichloroethylene	U	0.339	0.339	1.02	ug/kg	0.835	1					
cis-1,3-Dichloropropylene	U	0.339	0.339	1.02	ug/kg	0.835	1					
m,p-Xylenes	U	0.678	0.678	2.03	ug/kg	0.835	1					
o-Xylene	U	0.339	0.339	1.02	ug/kg	0.835	1					
tert-Butyl methyl ether	U	0.339	0.339	1.02	ug/kg	0.835	1					
trans-1,2-Dichloroethylene	U	0.339	0.339	1.02	ug/kg	0.835	1					
trans-1,3-Dichloropropylene	U	0.339	0.339	1.02	ug/kg	0.835	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9056A	SW846 9056A Total Anions in Soil	VN1	08/04/23	1818	2471783
SW846 5035	5035 Prep	PXY1	08/03/23	0932	2475724
EPA 350.1 Modified Prep	EPA 350.1 Mod. Ammonia Nitrogen Prep	ES2	08/09/23	1132	2471485
SW846 1311	SW846 1311 TCLP Leaching	RXB5	08/07/23	1420	2471840

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: August 21, 2023

Company : Westinghouse Electric Co. LLC
Address : 5801 Bluff Road

Hopkins, South Carolina 29061
Contact: Diana Joyner
Project: Middle Ditch

Client Sample ID: CB-115A-SOIL-20230803 Project: WNUC01223
Sample ID: 632081011 Client ID: WNUC010

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
SW846 3010A	TCLP SW 846 3010	Acid Digestion		EM2	08/08/23		1545		2472540		

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	SW846 9056A		
2	SW846 3010A/6020B		
3	EPA 350.1 Modified SC		
4	SW846 8260D		

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Bromofluorobenzene	SW846 8260 Volatiles "Dry Weight Corrected"	52.2 ug/kg	50.0	103	(70%-130%)
1,2-Dichloroethane-d4	SW846 8260 Volatiles "Dry Weight Corrected"	52.1 ug/kg	50.0	102	(76%-127%)
Toluene-d8	SW846 8260 Volatiles "Dry Weight Corrected"	51.6 ug/kg	50.0	102	(81%-120%)

Notes:

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 21, 2023

Company : Westinghouse Electric Co. LLC
Address : 5801 Bluff Road

Hopkins, South Carolina 29061

Contact: Diana Joyner
Project: Middle Ditch

Client Sample ID: CB-115B-SED-20230803 Project: WNUC01223
Sample ID: 632081012 Client ID: WNUC010
Matrix: Solid
Collect Date: 03-AUG-23 09:38
Receive Date: 03-AUG-23
Collector: Client
Moisture: 20.9%

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride and Nitrate "Dry Weight Corrected"												
Fluoride		4.21	0.418	1.23	mg/kg	9.73	1	JLD1	08/05/23	0411	2471784	1
Nitrate-N	J	0.984	0.406	1.23	mg/kg	9.73	1					
Metals Analysis-ICP-MS												
TCLP ICP-MS Metals "As Received"												
Nickel	J	0.0133	0.00600	0.0200	mg/L	10.0	1	BCD1	08/17/23	1024	2472541	2
Nutrient Analysis												
EPA 350.1 Nitrogen, Ammonia "Dry Weight Corrected"												
Nitrogen, Ammonia		15.0	0.948	2.63	mg/kg	41.7	1	AXH3	08/09/23	1425	2471486	3
Volatile Organics												
SW846 8260 Volatiles "Dry Weight Corrected"												
1,1,1-Trichloroethane	U	0.390	0.390	1.17	ug/kg	0.926	1	PXY1	08/13/23	1736	2475725	4
1,1,2,2-Tetrachloroethane	U	0.390	0.390	1.17	ug/kg	0.926	1					
1,1,2-Trichloroethane	U	0.390	0.390	1.17	ug/kg	0.926	1					
1,1-Dichloroethane	U	0.390	0.390	1.17	ug/kg	0.926	1					
1,1-Dichloroethylene	U	0.390	0.390	1.17	ug/kg	0.926	1					
1,2,3-Trichlorobenzene	U	0.390	0.390	1.17	ug/kg	0.926	1					
1,2,4-Trichlorobenzene	U	0.390	0.390	1.17	ug/kg	0.926	1					
1,2-Dibromo-3-chloropropane	U	0.585	0.585	1.17	ug/kg	0.926	1					
1,2-Dibromoethane	U	0.390	0.390	1.17	ug/kg	0.926	1					
1,2-Dichlorobenzene	U	0.390	0.390	1.17	ug/kg	0.926	1					
1,2-Dichloroethane	U	0.390	0.390	1.17	ug/kg	0.926	1					
1,2-Dichloropropane	U	0.390	0.390	1.17	ug/kg	0.926	1					
1,3-Dichlorobenzene	U	0.390	0.390	1.17	ug/kg	0.926	1					
1,4-Dichlorobenzene	U	0.390	0.390	1.17	ug/kg	0.926	1					
1-Chlorohexane	U	0.390	0.390	1.17	ug/kg	0.926	1					
2-Butanone	U	1.95	1.95	5.85	ug/kg	0.926	1					
2-Hexanone	U	1.95	1.95	5.85	ug/kg	0.926	1					
4-Methyl-2-pentanone	U	1.95	1.95	5.85	ug/kg	0.926	1					
Acetone	J	3.57	1.95	5.85	ug/kg	0.926	1					
Benzene	U	0.390	0.390	1.17	ug/kg	0.926	1					
Bromochloromethane	U	0.390	0.390	1.17	ug/kg	0.926	1					
Bromodichloromethane	U	0.390	0.390	1.17	ug/kg	0.926	1					
Bromoform	U	0.390	0.390	1.17	ug/kg	0.926	1					
Bromomethane	U	0.390	0.390	1.17	ug/kg	0.926	1					

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: August 21, 2023

Company : Westinghouse Electric Co. LLC
Address : 5801 Bluff Road

Hopkins, South Carolina 29061

Contact: Diana Joyner
Project: Middle Ditch

Client Sample ID: CB-115B-SED-20230803
Sample ID: 632081012

Project: WNUC01223
Client ID: WNUC010

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
SW846 8260 Volatiles "Dry Weight Corrected"												
Carbon disulfide	U	1.95	1.95	5.85	ug/kg	0.926	1					
Carbon tetrachloride	U	0.390	0.390	1.17	ug/kg	0.926	1					
Chlorobenzene	U	0.390	0.390	1.17	ug/kg	0.926	1					
Chloroethane	U	0.390	0.390	1.17	ug/kg	0.926	1					
Chloroform	U	0.390	0.390	1.17	ug/kg	0.926	1					
Chloromethane	U	0.390	0.390	1.17	ug/kg	0.926	1					
Cyclohexane	U	0.390	0.390	1.17	ug/kg	0.926	1					
Dibromochloromethane	U	0.390	0.390	1.17	ug/kg	0.926	1					
Dichlorodifluoromethane	U	0.390	0.390	1.17	ug/kg	0.926	1					
Ethylbenzene	U	0.390	0.390	1.17	ug/kg	0.926	1					
Isopropylbenzene	U	0.390	0.390	1.17	ug/kg	0.926	1					
Methyl acetate	U	1.95	1.95	5.85	ug/kg	0.926	1					
Methylcyclohexane	U	0.390	0.390	1.17	ug/kg	0.926	1					
Methylene chloride	U	1.95	1.95	5.85	ug/kg	0.926	1					
Naphthalene	U	0.390	0.390	1.17	ug/kg	0.926	1					
Styrene	U	0.390	0.390	1.17	ug/kg	0.926	1					
Tetrachloroethylene	U	0.390	0.390	1.17	ug/kg	0.926	1					
Toluene	U	0.390	0.390	1.17	ug/kg	0.926	1					
Trichloroethylene	U	0.390	0.390	1.17	ug/kg	0.926	1					
Trichlorofluoromethane	U	0.390	0.390	1.17	ug/kg	0.926	1					
Trichlorotrifluoroethane	U	1.95	1.95	5.85	ug/kg	0.926	1					
Vinyl chloride	U	0.390	0.390	1.17	ug/kg	0.926	1					
cis-1,2-Dichloroethylene	U	0.390	0.390	1.17	ug/kg	0.926	1					
cis-1,3-Dichloropropylene	U	0.390	0.390	1.17	ug/kg	0.926	1					
m,p-Xylenes	U	0.781	0.781	2.34	ug/kg	0.926	1					
o-Xylene	U	0.390	0.390	1.17	ug/kg	0.926	1					
tert-Butyl methyl ether	U	0.390	0.390	1.17	ug/kg	0.926	1					
trans-1,2-Dichloroethylene	U	0.390	0.390	1.17	ug/kg	0.926	1					
trans-1,3-Dichloropropylene	U	0.390	0.390	1.17	ug/kg	0.926	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 5035	5035 Prep	PXY1	08/03/23	0938	2475724
SW846 9056A	SW846 9056A Total Anions in Soil	VN1	08/04/23	1818	2471783
SW846 3010A	TCLP SW 846 3010 Acid Digestion	EM2	08/08/23	1545	2472540
EPA 350.1 Modified Prep	EPA 350.1 Mod. Ammonia Nitrogen Prep	ES2	08/09/23	1132	2471485

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Certificate of Analysis

Report Date: August 21, 2023

Company : Westinghouse Electric Co. LLC
Address : 5801 Bluff Road

Hopkins, South Carolina 29061
Contact: Diana Joyner
Project: Middle Ditch

Client Sample ID: CB-115B-SED-20230803 Project: WNUC01223
Sample ID: 632081012 Client ID: WNUC010

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
SW846 1311	SW846 1311	TCLP Leaching		RXB5	08/07/23		1420		2471840		

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	SW846 9056A		
2	SW846 3010A/6020B		
3	EPA 350.1 Modified SC		
4	SW846 8260D		

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Bromofluorobenzene	SW846 8260 Volatiles "Dry Weight Corrected"	57.8 ug/kg	50.0	99	(70%-130%)
1,2-Dichloroethane-d4	SW846 8260 Volatiles "Dry Weight Corrected"	60.6 ug/kg	50.0	103	(76%-127%)
Toluene-d8	SW846 8260 Volatiles "Dry Weight Corrected"	59.7 ug/kg	50.0	102	(81%-120%)

Notes:

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 21, 2023

Company : Westinghouse Electric Co. LLC
Address : 5801 Bluff Road

Hopkins, South Carolina 29061

Contact: Diana Joyner
Project: Middle Ditch

Client Sample ID: ECHO-A-SED-20230803	Project: WNUC01223
Sample ID: 632081013	Client ID: WNUC010
Matrix: Solid	
Collect Date: 03-AUG-23 08:30	
Receive Date: 03-AUG-23	
Collector: Client	
Moisture: 40.8%	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride and Nitrate "Dry Weight Corrected"												
Fluoride		3.68	0.566	1.67	mg/kg	9.85	1	JLD1	08/05/23	0443	2471784	1
Nitrate-N	J	0.778	0.550	1.67	mg/kg	9.85	1					
Metals Analysis-ICP-MS												
TCLP ICP-MS Metals "As Received"												
Nickel		0.0440	0.00600	0.0200	mg/L	10.0	1	BCD1	08/17/23	1026	2472541	2
Nutrient Analysis												
EPA 350.1 Nitrogen, Ammonia "Dry Weight Corrected"												
Nitrogen, Ammonia		48.2	1.44	3.99	mg/kg	47.2	1	AXH3	08/09/23	1427	2471486	3
Volatile Organics												
SW846 8260 Volatiles "Dry Weight Corrected"												
1,1,1-Trichloroethane	U	0.502	0.502	1.51	ug/kg	0.891	1	PXY1	08/13/23	1805	2475725	4
1,1,2,2-Tetrachloroethane	U	0.502	0.502	1.51	ug/kg	0.891	1					
1,1,2-Trichloroethane	U	0.502	0.502	1.51	ug/kg	0.891	1					
1,1-Dichloroethane	U	0.502	0.502	1.51	ug/kg	0.891	1					
1,1-Dichloroethylene	U	0.502	0.502	1.51	ug/kg	0.891	1					
1,2,3-Trichlorobenzene	U	0.502	0.502	1.51	ug/kg	0.891	1					
1,2,4-Trichlorobenzene	U	0.502	0.502	1.51	ug/kg	0.891	1					
1,2-Dibromo-3-chloropropane	U	0.753	0.753	1.51	ug/kg	0.891	1					
1,2-Dibromoethane	U	0.502	0.502	1.51	ug/kg	0.891	1					
1,2-Dichlorobenzene	U	0.502	0.502	1.51	ug/kg	0.891	1					
1,2-Dichloroethane	U	0.502	0.502	1.51	ug/kg	0.891	1					
1,2-Dichloropropane	U	0.502	0.502	1.51	ug/kg	0.891	1					
1,3-Dichlorobenzene	U	0.502	0.502	1.51	ug/kg	0.891	1					
1,4-Dichlorobenzene	U	0.502	0.502	1.51	ug/kg	0.891	1					
1-Chlorohexane	U	0.502	0.502	1.51	ug/kg	0.891	1					
2-Butanone	U	2.51	2.51	7.53	ug/kg	0.891	1					
2-Hexanone	U	2.51	2.51	7.53	ug/kg	0.891	1					
4-Methyl-2-pentanone	U	2.51	2.51	7.53	ug/kg	0.891	1					
Acetone	U	2.51	2.51	7.53	ug/kg	0.891	1					
Benzene	U	0.502	0.502	1.51	ug/kg	0.891	1					
Bromochloromethane	U	0.502	0.502	1.51	ug/kg	0.891	1					
Bromodichloromethane	U	0.502	0.502	1.51	ug/kg	0.891	1					
Bromoform	U	0.502	0.502	1.51	ug/kg	0.891	1					
Bromomethane	U	0.502	0.502	1.51	ug/kg	0.891	1					

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Certificate of Analysis

Report Date: August 21, 2023

Company : Westinghouse Electric Co. LLC
Address : 5801 Bluff Road

Hopkins, South Carolina 29061

Contact: Diana Joyner
Project: Middle Ditch

Client Sample ID: ECHO-A-SED-20230803
Sample ID: 632081013

Project: WNUC01223
Client ID: WNUC010

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
SW846 8260 Volatiles "Dry Weight Corrected"												
Carbon disulfide	U	2.51	2.51	7.53	ug/kg	0.891	1					
Carbon tetrachloride	U	0.502	0.502	1.51	ug/kg	0.891	1					
Chlorobenzene	U	0.502	0.502	1.51	ug/kg	0.891	1					
Chloroethane	U	0.502	0.502	1.51	ug/kg	0.891	1					
Chloroform	U	0.502	0.502	1.51	ug/kg	0.891	1					
Chloromethane	U	0.502	0.502	1.51	ug/kg	0.891	1					
Cyclohexane	U	0.502	0.502	1.51	ug/kg	0.891	1					
Dibromochloromethane	U	0.502	0.502	1.51	ug/kg	0.891	1					
Dichlorodifluoromethane	U	0.502	0.502	1.51	ug/kg	0.891	1					
Ethylbenzene	U	0.502	0.502	1.51	ug/kg	0.891	1					
Isopropylbenzene	U	0.502	0.502	1.51	ug/kg	0.891	1					
Methyl acetate	U	2.51	2.51	7.53	ug/kg	0.891	1					
Methylcyclohexane	U	0.502	0.502	1.51	ug/kg	0.891	1					
Methylene chloride	U	2.51	2.51	7.53	ug/kg	0.891	1					
Naphthalene	U	0.502	0.502	1.51	ug/kg	0.891	1					
Styrene	U	0.502	0.502	1.51	ug/kg	0.891	1					
Tetrachloroethylene	U	0.502	0.502	1.51	ug/kg	0.891	1					
Toluene	U	0.502	0.502	1.51	ug/kg	0.891	1					
Trichloroethylene	U	0.502	0.502	1.51	ug/kg	0.891	1					
Trichlorofluoromethane	U	0.502	0.502	1.51	ug/kg	0.891	1					
Trichlorotrifluoroethane	U	2.51	2.51	7.53	ug/kg	0.891	1					
Vinyl chloride	U	0.502	0.502	1.51	ug/kg	0.891	1					
cis-1,2-Dichloroethylene	U	0.502	0.502	1.51	ug/kg	0.891	1					
cis-1,3-Dichloropropylene	U	0.502	0.502	1.51	ug/kg	0.891	1					
m,p-Xylenes	U	1.00	1.00	3.01	ug/kg	0.891	1					
o-Xylene	U	0.502	0.502	1.51	ug/kg	0.891	1					
tert-Butyl methyl ether	U	0.502	0.502	1.51	ug/kg	0.891	1					
trans-1,2-Dichloroethylene	U	0.502	0.502	1.51	ug/kg	0.891	1					
trans-1,3-Dichloropropylene	U	0.502	0.502	1.51	ug/kg	0.891	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 350.1 Modified Prep	EPA 350.1 Mod. Ammonia Nitrogen Prep	ES2	08/09/23	1132	2471485
SW846 5035	5035 Prep	PXY1	08/03/23	0830	2475724
SW846 1311	SW846 1311 TCLP Leaching	RXB5	08/07/23	1420	2471840
SW846 9056A	SW846 9056A Total Anions in Soil	VN1	08/04/23	1818	2471783

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Certificate of Analysis

Report Date: August 21, 2023

Company : Westinghouse Electric Co. LLC
Address : 5801 Bluff Road

Hopkins, South Carolina 29061
Contact: Diana Joyner
Project: Middle Ditch

Client Sample ID: ECHO-A-SED-20230803
Sample ID: 632081013

Project: WNUC01223
Client ID: WNUC010

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
SW846 3010A	TCLP SW 846 3010	Acid Digestion		EM2	08/08/23		1545		2472540		

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	SW846 9056A		
2	SW846 3010A/6020B		
3	EPA 350.1 Modified SC		
4	SW846 8260D		

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Bromofluorobenzene	SW846 8260 Volatiles "Dry Weight Corrected"	82.6 ug/kg	50.0	110	(70%-130%)
1,2-Dichloroethane-d4	SW846 8260 Volatiles "Dry Weight Corrected"	74.9 ug/kg	50.0	99	(76%-127%)
Toluene-d8	SW846 8260 Volatiles "Dry Weight Corrected"	78.7 ug/kg	50.0	105	(81%-120%)

Notes:

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 21, 2023

Company : Westinghouse Electric Co. LLC
Address : 5801 Bluff Road

Hopkins, South Carolina 29061

Contact: Diana Joyner
Project: Middle Ditch

Client Sample ID: ECHO-B-SED-20230803 Project: WNUC01223
Sample ID: 632081014 Client ID: WNUC010
Matrix: Solid
Collect Date: 03-AUG-23 08:35
Receive Date: 03-AUG-23
Collector: Client
Moisture: 25.3%

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride and Nitrate "Dry Weight Corrected"												
Fluoride		10.9	0.446	1.31	mg/kg	9.80	1	JLD1	08/05/23	0514	2471784	1
Nitrate-N	U	0.433	0.433	1.31	mg/kg	9.80	1					
Metals Analysis-ICP-MS												
TCLP ICP-MS Metals "As Received"												
Nickel		0.0891	0.00600	0.0200	mg/L	10.0	1	BCD1	08/17/23	1028	2472541	2
Nutrient Analysis												
EPA 350.1 Nitrogen, Ammonia "Dry Weight Corrected"												
Nitrogen, Ammonia		189	4.86	13.5	mg/kg	40.3	5	AXH3	08/09/23	1428	2471486	3
Volatile Organics												
SW846 8260 Volatiles "Dry Weight Corrected"												
1,1,1-Trichloroethane	U	0.371	0.371	1.11	ug/kg	0.832	1	PXY1	08/13/23	1834	2475725	4
1,1,2,2-Tetrachloroethane	U	0.371	0.371	1.11	ug/kg	0.832	1					
1,1,2-Trichloroethane	U	0.371	0.371	1.11	ug/kg	0.832	1					
1,1-Dichloroethane	U	0.371	0.371	1.11	ug/kg	0.832	1					
1,1-Dichloroethylene	U	0.371	0.371	1.11	ug/kg	0.832	1					
1,2,3-Trichlorobenzene	U	0.371	0.371	1.11	ug/kg	0.832	1					
1,2,4-Trichlorobenzene	U	0.371	0.371	1.11	ug/kg	0.832	1					
1,2-Dibromo-3-chloropropane	U	0.557	0.557	1.11	ug/kg	0.832	1					
1,2-Dibromoethane	U	0.371	0.371	1.11	ug/kg	0.832	1					
1,2-Dichloroethane	U	0.371	0.371	1.11	ug/kg	0.832	1					
1,2-Dichloroethane	U	0.371	0.371	1.11	ug/kg	0.832	1					
1,2-Dichloropropane	U	0.371	0.371	1.11	ug/kg	0.832	1					
1,3-Dichlorobenzene	U	0.371	0.371	1.11	ug/kg	0.832	1					
1,4-Dichlorobenzene	U	0.371	0.371	1.11	ug/kg	0.832	1					
1-Chlorohexane	U	0.371	0.371	1.11	ug/kg	0.832	1					
2-Butanone		12.8	1.86	5.57	ug/kg	0.832	1					
2-Hexanone	U	1.86	1.86	5.57	ug/kg	0.832	1					
4-Methyl-2-pentanone	U	1.86	1.86	5.57	ug/kg	0.832	1					
Acetone		61.3	1.86	5.57	ug/kg	0.832	1					
Benzene	U	0.371	0.371	1.11	ug/kg	0.832	1					
Bromochloromethane	U	0.371	0.371	1.11	ug/kg	0.832	1					
Bromodichloromethane	U	0.371	0.371	1.11	ug/kg	0.832	1					
Bromoform	U	0.371	0.371	1.11	ug/kg	0.832	1					
Bromomethane	U	0.371	0.371	1.11	ug/kg	0.832	1					

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Certificate of Analysis

Report Date: August 21, 2023

Company : Westinghouse Electric Co. LLC
Address : 5801 Bluff Road

Hopkins, South Carolina 29061

Contact: Diana Joyner
Project: Middle Ditch

Client Sample ID: ECHO-B-SED-20230803
Sample ID: 632081014

Project: WNUC01223
Client ID: WNUC010

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
SW846 8260 Volatiles "Dry Weight Corrected"												
Carbon disulfide	U	1.86	1.86	5.57	ug/kg	0.832	1					
Carbon tetrachloride	U	0.371	0.371	1.11	ug/kg	0.832	1					
Chlorobenzene	U	0.371	0.371	1.11	ug/kg	0.832	1					
Chloroethane	U	0.371	0.371	1.11	ug/kg	0.832	1					
Chloroform	U	0.371	0.371	1.11	ug/kg	0.832	1					
Chloromethane	U	0.371	0.371	1.11	ug/kg	0.832	1					
Cyclohexane	U	0.371	0.371	1.11	ug/kg	0.832	1					
Dibromochloromethane	U	0.371	0.371	1.11	ug/kg	0.832	1					
Dichlorodifluoromethane	U	0.371	0.371	1.11	ug/kg	0.832	1					
Ethylbenzene	U	0.371	0.371	1.11	ug/kg	0.832	1					
Isopropylbenzene	J	0.456	0.371	1.11	ug/kg	0.832	1					
Methyl acetate	U	1.86	1.86	5.57	ug/kg	0.832	1					
Methylcyclohexane	U	0.371	0.371	1.11	ug/kg	0.832	1					
Methylene chloride	U	1.86	1.86	5.57	ug/kg	0.832	1					
Naphthalene	J	0.401	0.371	1.11	ug/kg	0.832	1					
Styrene	U	0.371	0.371	1.11	ug/kg	0.832	1					
Tetrachloroethylene	U	0.371	0.371	1.11	ug/kg	0.832	1					
Toluene	U	0.371	0.371	1.11	ug/kg	0.832	1					
Trichloroethylene	U	0.371	0.371	1.11	ug/kg	0.832	1					
Trichlorofluoromethane	U	0.371	0.371	1.11	ug/kg	0.832	1					
Trichlorotrifluoroethane	U	1.86	1.86	5.57	ug/kg	0.832	1					
Vinyl chloride	U	0.371	0.371	1.11	ug/kg	0.832	1					
cis-1,2-Dichloroethylene	U	0.371	0.371	1.11	ug/kg	0.832	1					
cis-1,3-Dichloropropylene	U	0.371	0.371	1.11	ug/kg	0.832	1					
m,p-Xylenes	U	0.743	0.743	2.23	ug/kg	0.832	1					
o-Xylene	U	0.371	0.371	1.11	ug/kg	0.832	1					
tert-Butyl methyl ether	U	0.371	0.371	1.11	ug/kg	0.832	1					
trans-1,2-Dichloroethylene	U	0.371	0.371	1.11	ug/kg	0.832	1					
trans-1,3-Dichloropropylene	U	0.371	0.371	1.11	ug/kg	0.832	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 1311	SW846 1311 TCLP Leaching	RXB5	08/07/23	1420	2471840
SW846 3010A	TCLP SW 846 3010 Acid Digestion	EM2	08/08/23	1545	2472540
EPA 350.1 Modified Prep	EPA 350.1 Mod. Ammonia Nitrogen Prep	ES2	08/09/23	1132	2471485
SW846 9056A	SW846 9056A Total Anions in Soil	VN1	08/04/23	1818	2471783

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Certificate of Analysis

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Company : Westinghouse Electric Co. LLC
Address : 5801 Bluff Road

Hopkins, South Carolina 29061
Contact: Diana Joyner
Project: Middle Ditch

Client Sample ID: ECHO-B-SED-20230803
Sample ID: 632081014

Project: WNUC01223
Client ID: WNUC010

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
SW846 5035	5035 Prep			PXY1	08/03/23		0835		2475724		

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	SW846 9056A		
2	SW846 3010A/6020B		
3	EPA 350.1 Modified SC		
4	SW846 8260D		

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Bromofluorobenzene	SW846 8260 Volatiles "Dry Weight Corrected"	72.5 ug/kg	50.0	130	(70%-130%)
1,2-Dichloroethane-d4	SW846 8260 Volatiles "Dry Weight Corrected"	57.9 ug/kg	50.0	104	(76%-127%)
Toluene-d8	SW846 8260 Volatiles "Dry Weight Corrected"	60.2 ug/kg	50.0	108	(81%-120%)

Notes:

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 21, 2023

Company : Westinghouse Electric Co. LLC
Address : 5801 Bluff Road

Hopkins, South Carolina 29061

Contact: Diana Joyner
Project: Middle Ditch

Client Sample ID: ROADWAY-B-SED-20230803 Project: WNUC01223
Sample ID: 632081015 Client ID: WNUC010
Matrix: Solid
Collect Date: 03-AUG-23 11:21
Receive Date: 03-AUG-23
Collector: Client
Moisture: 23.5%

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Ion Chromatography												
SW846 9056A Fluoride and Nitrate "Dry Weight Corrected"												
Fluoride		8.12	0.432	1.27	mg/kg	9.71	1	JLD1	08/05/23	0546	2471784	1
Nitrate-N	J	0.453	0.419	1.27	mg/kg	9.71	1					
Metals Analysis-ICP-MS												
TCLP ICP-MS Metals "As Received"												
Nickel		0.0333	0.00600	0.0200	mg/L	10.0	1	BCD1	08/17/23	1030	2472541	2
Nutrient Analysis												
EPA 350.1 Nitrogen, Ammonia "Dry Weight Corrected"												
Nitrogen, Ammonia		34.7	1.11	3.08	mg/kg	47.2	1	AXH3	08/09/23	1432	2471486	3
Volatile Organics												
SW846 8260 Volatiles "Dry Weight Corrected"												
1,1,1-Trichloroethane	U	0.317	0.317	0.951	ug/kg	0.728	1	PXY1	08/13/23	1904	2475725	4
1,1,2,2-Tetrachloroethane	U	0.317	0.317	0.951	ug/kg	0.728	1					
1,1,2-Trichloroethane	U	0.317	0.317	0.951	ug/kg	0.728	1					
1,1-Dichloroethane	U	0.317	0.317	0.951	ug/kg	0.728	1					
1,1-Dichloroethylene	U	0.317	0.317	0.951	ug/kg	0.728	1					
1,2,3-Trichlorobenzene	U	0.317	0.317	0.951	ug/kg	0.728	1					
1,2,4-Trichlorobenzene	U	0.317	0.317	0.951	ug/kg	0.728	1					
1,2-Dibromo-3-chloropropane	U	0.476	0.476	0.951	ug/kg	0.728	1					
1,2-Dibromoethane	U	0.317	0.317	0.951	ug/kg	0.728	1					
1,2-Dichlorobenzene	U	0.317	0.317	0.951	ug/kg	0.728	1					
1,2-Dichloroethane	U	0.317	0.317	0.951	ug/kg	0.728	1					
1,2-Dichloropropane	U	0.317	0.317	0.951	ug/kg	0.728	1					
1,3-Dichlorobenzene	U	0.317	0.317	0.951	ug/kg	0.728	1					
1,4-Dichlorobenzene	U	0.317	0.317	0.951	ug/kg	0.728	1					
1-Chlorohexane	U	0.317	0.317	0.951	ug/kg	0.728	1					
2-Butanone		6.74	1.59	4.76	ug/kg	0.728	1					
2-Hexanone	U	1.59	1.59	4.76	ug/kg	0.728	1					
4-Methyl-2-pentanone	U	1.59	1.59	4.76	ug/kg	0.728	1					
Acetone		36.3	1.59	4.76	ug/kg	0.728	1					
Benzene	U	0.317	0.317	0.951	ug/kg	0.728	1					
Bromochloromethane	U	0.317	0.317	0.951	ug/kg	0.728	1					
Bromodichloromethane	U	0.317	0.317	0.951	ug/kg	0.728	1					
Bromoform	U	0.317	0.317	0.951	ug/kg	0.728	1					
Bromomethane	U	0.317	0.317	0.951	ug/kg	0.728	1					

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: August 21, 2023

Company : Westinghouse Electric Co. LLC
Address : 5801 Bluff Road

Hopkins, South Carolina 29061
Contact: Diana Joyner
Project: Middle Ditch

Client Sample ID: ROADWAY-B-SED-20230803
Sample ID: 632081015

Project: WNUC01223
Client ID: WNUC010

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
SW846 8260 Volatiles "Dry Weight Corrected"												
Carbon disulfide	U	1.59	1.59	4.76	ug/kg	0.728	1					
Carbon tetrachloride	U	0.317	0.317	0.951	ug/kg	0.728	1					
Chlorobenzene	U	0.317	0.317	0.951	ug/kg	0.728	1					
Chloroethane	U	0.317	0.317	0.951	ug/kg	0.728	1					
Chloroform	U	0.317	0.317	0.951	ug/kg	0.728	1					
Chloromethane	U	0.317	0.317	0.951	ug/kg	0.728	1					
Cyclohexane	U	0.317	0.317	0.951	ug/kg	0.728	1					
Dibromochloromethane	U	0.317	0.317	0.951	ug/kg	0.728	1					
Dichlorodifluoromethane	U	0.317	0.317	0.951	ug/kg	0.728	1					
Ethylbenzene	U	0.317	0.317	0.951	ug/kg	0.728	1					
Isopropylbenzene	U	0.317	0.317	0.951	ug/kg	0.728	1					
Methyl acetate	U	1.59	1.59	4.76	ug/kg	0.728	1					
Methylcyclohexane	U	0.317	0.317	0.951	ug/kg	0.728	1					
Methylene chloride	U	1.59	1.59	4.76	ug/kg	0.728	1					
Naphthalene	U	0.317	0.317	0.951	ug/kg	0.728	1					
Styrene	U	0.317	0.317	0.951	ug/kg	0.728	1					
Tetrachloroethylene	U	0.317	0.317	0.951	ug/kg	0.728	1					
Toluene	J	0.818	0.317	0.951	ug/kg	0.728	1					
Trichloroethylene	U	0.317	0.317	0.951	ug/kg	0.728	1					
Trichlorofluoromethane	U	0.317	0.317	0.951	ug/kg	0.728	1					
Trichlorotrifluoroethane	U	1.59	1.59	4.76	ug/kg	0.728	1					
Vinyl chloride	U	0.317	0.317	0.951	ug/kg	0.728	1					
cis-1,2-Dichloroethylene	U	0.317	0.317	0.951	ug/kg	0.728	1					
cis-1,3-Dichloropropylene	U	0.317	0.317	0.951	ug/kg	0.728	1					
m,p-Xylenes	U	0.635	0.635	1.90	ug/kg	0.728	1					
o-Xylene	U	0.317	0.317	0.951	ug/kg	0.728	1					
tert-Butyl methyl ether	U	0.317	0.317	0.951	ug/kg	0.728	1					
trans-1,2-Dichloroethylene	U	0.317	0.317	0.951	ug/kg	0.728	1					
trans-1,3-Dichloropropylene	U	0.317	0.317	0.951	ug/kg	0.728	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 9056A	SW846 9056A Total Anions in Soil	VN1	08/04/23	1818	2471783
SW846 1311	SW846 1311 TCLP Leaching	RXB5	08/07/23	1420	2471840
SW846 3010A	TCLP SW 846 3010 Acid Digestion	EM2	08/08/23	1545	2472540
EPA 350.1 Modified Prep	EPA 350.1 Mod. Ammonia Nitrogen Prep	ES2	08/09/23	1132	2471485

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Certificate of Analysis

Report Date: August 21, 2023

Company : Westinghouse Electric Co. LLC
Address : 5801 Bluff Road

Hopkins, South Carolina 29061
Contact: Diana Joyner
Project: Middle Ditch

Client Sample ID: ROADWAY-B-SED-20230803 Project: WNUC01223
Sample ID: 632081015 Client ID: WNUC010

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
SW846 5035	5035 Prep			PXY1	08/03/23		1121		2475724		

The following Analytical Methods were performed:

Method	Description	Analyst	Comments
1	SW846 9056A		
2	SW846 3010A/6020B		
3	EPA 350.1 Modified SC		
4	SW846 8260D		

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Bromofluorobenzene	SW846 8260 Volatiles "Dry Weight Corrected"	49.5 ug/kg	50.0	104	(70%-130%)
1,2-Dichloroethane-d4	SW846 8260 Volatiles "Dry Weight Corrected"	49.7 ug/kg	50.0	105	(76%-127%)
Toluene-d8	SW846 8260 Volatiles "Dry Weight Corrected"	48.6 ug/kg	50.0	102	(81%-120%)

Notes:

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 21, 2023

Company : Westinghouse Electric Co. LLC
Address : 5801 Bluff Road

Contact: Hopkins, South Carolina 29061
Diana Joyner
Project: Middle Ditch

Client Sample ID: CB-131A-SOIL-20230803	Project: WNUC01223
Sample ID: 632081001	Client ID: WNUC010
Matrix: Soil	
Collect Date: 03-AUG-23 10:13	
Receive Date: 03-AUG-23	
Collector: Client	
Moisture: 15.8%	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Solid "Dry Weight Corrected"													
Uranium-233/234		1.21	+/-0.395	0.274	0.500	pCi/g		EJ1	08/09/23	0835	2471611		1
Uranium-235/236		0.112	+/-0.147	0.112	0.500	pCi/g							
Uranium-238		0.696	+/-0.298	0.199	0.500	pCi/g							
Uranium-Total		2.02	+/-0.516	0.356		pCi/g							

Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Solid "As Received"													
Technetium-99	U	-0.125	+/-0.393	0.728	1.00	pCi/g		AG2	08/20/23	1304	2471565		2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	LC2	08/04/23	1300	2471473

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, Solid "Dry Weight Corrected"			91	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Solid "As Received"			76.2	(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 21, 2023

Company : Westinghouse Electric Co. LLC
Address : 5801 Bluff Road

Contact: Hopkins, South Carolina 29061
Diana Joyner
Project: Middle Ditch

Client Sample ID: CB-131B-SOIL-20230803 Project: WNUC01223
Sample ID: 632081002 Client ID: WNUC010
Matrix: Soil
Collect Date: 03-AUG-23 10:17
Receive Date: 03-AUG-23
Collector: Client
Moisture: 11.4%

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Solid "Dry Weight Corrected"													
Uranium-233/234		0.589	+/-0.281	0.274	0.500	pCi/g			EJ1	08/09/23	0835	2471611	1
Uranium-235/236	U	0.129	+/-0.152	0.164	0.500	pCi/g							
Uranium-238		0.458	+/-0.232	0.154	0.500	pCi/g							
Uranium-Total		1.18	+/-0.394	0.355		pCi/g							

Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Solid "As Received"													
Technetium-99	U	0.0492	+/-0.321	0.574	1.00	pCi/g			AG2	08/20/23	1320	2471565	2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	LC2	08/04/23	1300	2471473

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, Solid "Dry Weight Corrected"			97.1	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Solid "As Received"			96.9	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: August 21, 2023

Company : Westinghouse Electric Co. LLC
Address : 5801 Bluff Road

Hopkins, South Carolina 29061

Contact: Diana Joyner
Project: Middle Ditch

Client Sample ID: CB-120A-SED-20230803	Project: WNUC01223
Sample ID: 632081003	Client ID: WNUC010
Matrix: Solid	
Collect Date: 03-AUG-23 10:30	
Receive Date: 03-AUG-23	
Collector: Client	
Moisture: 31.8%	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Solid "Dry Weight Corrected"													
Uranium-233/234		2.29	+/-0.492	0.248	0.500	pCi/g		EJ1	08/09/23	0835	2471611		1
Uranium-235/236		0.210	+/-0.181	0.179	0.500	pCi/g							
Uranium-238		2.30	+/-0.486	0.172	0.500	pCi/g							
Uranium-Total		4.80	+/-0.715	0.351		pCi/g							

Rad Liquid Scintillation Analysis

Liquid Scint Tc99, Solid "As Received"

Technetium-99	U	0.310	+/-0.351	0.589	1.00	pCi/g		AG2	08/20/23	1337	2471565		2
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The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	LC2	08/04/23	1300	2471473

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, Solid "Dry Weight Corrected"			99.4	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Solid "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 21, 2023

Company : Westinghouse Electric Co. LLC
Address : 5801 Bluff Road

Contact: Hopkins, South Carolina 29061
Diana Joyner
Project: Middle Ditch

Client Sample ID: CB-120B-SOIL-20230803 Project: WNUC01223
Sample ID: 632081004 Client ID: WNUC010
Matrix: Soil
Collect Date: 03-AUG-23 10:41
Receive Date: 03-AUG-23
Collector: Client
Moisture: 26.3%

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Solid "Dry Weight Corrected"													
Uranium-233/234		2.23	+/-0.510	0.306	0.500	pCi/g		EJ1	08/09/23	0835	2471611		1
Uranium-235/236	U	0.0262	+/-0.0983	0.165	0.500	pCi/g							
Uranium-238		2.05	+/-0.478	0.216	0.500	pCi/g							
Uranium-Total		4.31	+/-0.706	0.409		pCi/g							

Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Solid "As Received"													
Technetium-99	U	-0.0322	+/-0.332	0.605	1.00	pCi/g		AG2	08/20/23	1354	2471565		2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	LC2	08/04/23	1300	2471473

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, Solid "Dry Weight Corrected"			97	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Solid "As Received"			91.6	(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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2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: August 21, 2023

Company : Westinghouse Electric Co. LLC
Address : 5801 Bluff Road

Contact: Hopkins, South Carolina 29061
Diana Joyner
Project: Middle Ditch

Client Sample ID: CB-119A-SED-20230803 Project: WNUC01223
Sample ID: 632081005 Client ID: WNUC010
Matrix: Solid
Collect Date: 03-AUG-23 10:50
Receive Date: 03-AUG-23
Collector: Client
Moisture: 21.5%

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Solid "Dry Weight Corrected"													
Uranium-233/234		0.441	+/-0.247	0.233	0.500	pCi/g		EJ1	08/09/23	0835	2471611		1
Uranium-235/236	U	0.0465	+/-0.128	0.222	0.500	pCi/g							
Uranium-238		0.545	+/-0.259	0.163	0.500	pCi/g							
Uranium-Total		1.03	+/-0.380	0.361		pCi/g							

Rad Liquid Scintillation Analysis

Liquid Scint Tc99, Solid "As Received"

Technetium-99	U	0.116	+/-0.332	0.583	1.00	pCi/g		AG2	08/20/23	1410	2471565		2
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The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	LC2	08/04/23	1300	2471473

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, Solid "Dry Weight Corrected"			95	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Solid "As Received"			95.2	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: August 21, 2023

Company : Westinghouse Electric Co. LLC
Address : 5801 Bluff Road

Hopkins, South Carolina 29061

Contact: Diana Joyner
Project: Middle Ditch

Client Sample ID: CB-119B-SED-20230803	Project: WNUC01223
Sample ID: 632081006	Client ID: WNUC010
Matrix: Solid	
Collect Date: 03-AUG-23 10:59	
Receive Date: 03-AUG-23	
Collector: Client	
Moisture: 16.7%	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Solid "Dry Weight Corrected"													
Uranium-233/234		0.733	+/-0.316	0.267	0.500	pCi/g		EJ1	08/09/23	0835	2471611		1
Uranium-235/236		0.235	+/-0.210	0.228	0.500	pCi/g							
Uranium-238		1.10	+/-0.366	0.167	0.500	pCi/g							
Uranium-Total		2.07	+/-0.527	0.389		pCi/g							

Rad Liquid Scintillation Analysis

Liquid Scint Tc99, Solid "As Received"

Technetium-99	U	-0.331	+/-0.312	0.613	1.00	pCi/g		AG2	08/20/23	1427	2471565		2
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The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	LC2	08/04/23	1300	2471473

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, Solid "Dry Weight Corrected"			88.8	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Solid "As Received"			90.5	(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

GEL LABORATORIES LLC

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Report Date: August 21, 2023

Company : Westinghouse Electric Co. LLC
Address : 5801 Bluff Road

Contact: Hopkins, South Carolina 29061
Diana Joyner
Project: Middle Ditch

Client Sample ID: CB-118A-SOIL-20230803 Project: WNUC01223
Sample ID: 632081007 Client ID: WNUC010
Matrix: Soil
Collect Date: 03-AUG-23 08:46
Receive Date: 03-AUG-23
Collector: Client
Moisture: 21.2%

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Solid "Dry Weight Corrected"													
Uranium-233/234		1.19	+/-0.353	0.220	0.500	pCi/g		EJ1	08/09/23	0835	2471611		1
Uranium-235/236	U	0.172	+/-0.163	0.172	0.500	pCi/g							
Uranium-238		1.11	+/-0.331	0.0755	0.500	pCi/g							
Uranium-Total		2.47	+/-0.511	0.289		pCi/g							

Rad Liquid Scintillation Analysis

Liquid Scint Tc99, Solid "As Received"

Technetium-99	U	0.168	+/-0.336	0.583	1.00	pCi/g		AG2	08/20/23	1443	2471565		2
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The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	LC2	08/04/23	1300	2471473

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, Solid "Dry Weight Corrected"			102	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Solid "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

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: August 21, 2023

Company : Westinghouse Electric Co. LLC
Address : 5801 Bluff Road

Hopkins, South Carolina 29061

Contact: Diana Joyner
Project: Middle Ditch

Client Sample ID: CB-118B-SOIL-20230803	Project: WNUC01223
Sample ID: 632081008	Client ID: WNUC010
Matrix: Soil	
Collect Date: 03-AUG-23 08:56	
Receive Date: 03-AUG-23	
Collector: Client	
Moisture: 20.7%	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Solid "Dry Weight Corrected"													
Uranium-233/234		2.10	+/-0.456	0.194	0.500	pCi/g		EJ1	08/09/23	0835	2471611		1
Uranium-235/236	U	0.115	+/-0.136	0.147	0.500	pCi/g							
Uranium-238		1.63	+/-0.397	0.0743	0.500	pCi/g							
Uranium-Total		3.85	+/-0.620	0.254		pCi/g							

Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Solid "As Received"													
Technetium-99	U	-0.0363	+/-0.312	0.569	1.00	pCi/g		AG2	08/20/23	1500	2471565		2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	LC2	08/04/23	1300	2471473

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, Solid "Dry Weight Corrected"			104	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Solid "As Received"			97.8	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: August 21, 2023

Company : Westinghouse Electric Co. LLC
Address : 5801 Bluff Road

Contact: Hopkins, South Carolina 29061
Diana Joyner
Project: Middle Ditch

Client Sample ID: CB-116A-SOIL-20230803 Project: WNUC01223
Sample ID: 632081009 Client ID: WNUC010
Matrix: Soil
Collect Date: 03-AUG-23 09:10
Receive Date: 03-AUG-23
Collector: Client
Moisture: 18.1%

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Solid "Dry Weight Corrected"													
Uranium-233/234		67.7	+/-2.91	0.265	0.500	pCi/g		EJ1	08/09/23	0835	2471611		1
Uranium-235/236		3.47	+/-0.737	0.222	0.500	pCi/g							
Uranium-238		16.0	+/-1.42	0.227	0.500	pCi/g							
Uranium-Total		87.2	+/-3.32	0.414		pCi/g							

Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Solid "As Received"													
Technetium-99	U	0.0219	+/-0.328	0.589	1.00	pCi/g		AG2	08/20/23	1517	2471565		2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	LC2	08/04/23	1300	2471473

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, Solid "Dry Weight Corrected"			87.8	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Solid "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

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: August 21, 2023

Company : Westinghouse Electric Co. LLC
Address : 5801 Bluff Road

Contact: Hopkins, South Carolina 29061
Diana Joyner
Project: Middle Ditch

Client Sample ID: CB-116B-SED-20230803	Project: WNUC01223
Sample ID: 632081010	Client ID: WNUC010
Matrix: Solid	
Collect Date: 03-AUG-23 09:16	
Receive Date: 03-AUG-23	
Collector: Client	
Moisture: 17.7%	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Solid "Dry Weight Corrected"													
Uranium-233/234		4.48	+/-0.727	0.256	0.500	pCi/g		EJ1	08/09/23	0835	2471611		1
Uranium-235/236		0.306	+/-0.232	0.226	0.500	pCi/g							
Uranium-238		1.52	+/-0.429	0.210	0.500	pCi/g							
Uranium-Total		6.30	+/-0.875	0.401		pCi/g							

Rad Liquid Scintillation Analysis

Liquid Scint Tc99, Solid "As Received"													
Technetium-99	U	0.00664	+/-0.338	0.610	1.00	pCi/g		AG2	08/20/23	1533	2471565		2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	LC2	08/04/23	1300	2471473

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, Solid "Dry Weight Corrected"			96	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Solid "As Received"			91.4	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: August 21, 2023

Company : Westinghouse Electric Co. LLC
Address : 5801 Bluff Road

Hopkins, South Carolina 29061

Contact: Diana Joyner
Project: Middle Ditch

Client Sample ID: CB-115A-SOIL-20230803	Project: WNUC01223
Sample ID: 632081011	Client ID: WNUC010
Matrix: Soil	
Collect Date: 03-AUG-23 09:32	
Receive Date: 03-AUG-23	
Collector: Client	
Moisture: 17.9%	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Solid "Dry Weight Corrected"													
Uranium-233/234		44.7	+/-2.01	0.185	0.500	pCi/g		EJ1	08/09/23	0835	2471611		1
Uranium-235/236		2.38	+/-0.521	0.177	0.500	pCi/g							
Uranium-238		8.22	+/-0.865	0.196	0.500	pCi/g							
Uranium-Total		55.3	+/-2.25	0.323		pCi/g							

Rad Liquid Scintillation Analysis

Liquid Scint Tc99, Solid "As Received"

Technetium-99	U	-0.358	+/-0.417	0.812	1.00	pCi/g		AG2	08/20/23	1550	2471565		2
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The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	LC2	08/04/23	1300	2471473

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, Solid "Dry Weight Corrected"			103	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Solid "As Received"			69.8	(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 21, 2023

Company : Westinghouse Electric Co. LLC
Address : 5801 Bluff Road

Contact: Hopkins, South Carolina 29061
Diana Joyner
Project: Middle Ditch

Client Sample ID: CB-115B-SED-20230803	Project: WNUC01223
Sample ID: 632081012	Client ID: WNUC010
Matrix: Solid	
Collect Date: 03-AUG-23 09:38	
Receive Date: 03-AUG-23	
Collector: Client	
Moisture: 20.9%	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Solid "Dry Weight Corrected"													
Uranium-233/234		27.4	+/-1.66	0.226	0.500	pCi/g		EJ1	08/09/23	0835	2471611		1
Uranium-235/236		1.30	+/-0.412	0.197	0.500	pCi/g							
Uranium-238		4.62	+/-0.684	0.145	0.500	pCi/g							
Uranium-Total		33.3	+/-1.84	0.333		pCi/g							

Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Solid "As Received"													
Technetium-99	U	-0.0390	+/-0.321	0.586	1.00	pCi/g		AG2	08/20/23	1606	2471565		2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	LC2	08/04/23	1300	2471473

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, Solid "Dry Weight Corrected"			94.6	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Solid "As Received"			95.4	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: August 21, 2023

Company : Westinghouse Electric Co. LLC
Address : 5801 Bluff Road

Hopkins, South Carolina 29061

Contact: Diana Joyner
Project: Middle Ditch

Client Sample ID: ECHO-A-SED-20230803	Project: WNUC01223
Sample ID: 632081013	Client ID: WNUC010
Matrix: Solid	
Collect Date: 03-AUG-23 08:30	
Receive Date: 03-AUG-23	
Collector: Client	
Moisture: 40.8%	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Solid "Dry Weight Corrected"													
Uranium-233/234		140	+/-4.32	0.244	0.500	pCi/g		EJ1	08/09/23	0835	2471611		1
Uranium-235/236		7.46	+/-1.11	0.237	0.500	pCi/g							
Uranium-238		27.6	+/-1.92	0.166	0.500	pCi/g							
Uranium-Total		175	+/-4.85	0.378		pCi/g							

Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Solid "As Received"													
Technetium-99	U	0.0992	+/-0.449	0.798	1.00	pCi/g		AG2	08/20/23	1623	2471565		2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	LC2	08/04/23	1300	2471473

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, Solid "Dry Weight Corrected"			77	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Solid "As Received"			71	(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 21, 2023

Company : Westinghouse Electric Co. LLC
Address : 5801 Bluff Road

Hopkins, South Carolina 29061

Contact: Diana Joyner
Project: Middle Ditch

Client Sample ID: ECHO-B-SED-20230803	Project: WNUC01223
Sample ID: 632081014	Client ID: WNUC010
Matrix: Solid	
Collect Date: 03-AUG-23 08:35	
Receive Date: 03-AUG-23	
Collector: Client	
Moisture: 25.3%	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Solid "Dry Weight Corrected"													
Uranium-233/234		70.1	+/-2.73	0.230	0.500	pCi/g		EJ1	08/09/23	0835	2471611		1
Uranium-235/236		4.34	+/-0.763	0.240	0.500	pCi/g							
Uranium-238		14.2	+/-1.23	0.153	0.500	pCi/g							
Uranium-Total		88.7	+/-3.09	0.366		pCi/g							

Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Solid "As Received"													
Technetium-99	U	0.322	+/-0.457	0.772	1.00	pCi/g		AG2	08/20/23	1040	2471565		2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	LC2	08/04/23	1300	2471473

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, Solid "Dry Weight Corrected"			88.8	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Solid "As Received"			94.4	(15%-125%)

Notes:

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

Column headers are defined as follows:

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

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Certificate of Analysis

Report Date: August 21, 2023

Company : Westinghouse Electric Co. LLC
Address : 5801 Bluff Road

Contact: Hopkins, South Carolina 29061
Diana Joyner
Project: Middle Ditch

Client Sample ID: ROADWAY-B-SED-20230803	Project: WNUC01223
Sample ID: 632081015	Client ID: WNUC010
Matrix: Solid	
Collect Date: 03-AUG-23 11:21	
Receive Date: 03-AUG-23	
Collector: Client	
Moisture: 23.5%	

Parameter	Qualifier	Result	Uncertainty	MDC	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Rad Alpha Spec Analysis													
Alphaspec U, Solid "Dry Weight Corrected"													
Uranium-233/234		41.1	+/-2.15	0.233	0.500	pCi/g		EJ1	08/09/23	0835	2471611		1
Uranium-235/236		2.25	+/-0.564	0.109	0.500	pCi/g							
Uranium-238		8.28	+/-0.968	0.162	0.500	pCi/g							
Uranium-Total		51.7	+/-2.43	0.304		pCi/g							

Rad Liquid Scintillation Analysis													
Liquid Scint Tc99, Solid "As Received"													
Technetium-99		3.11	+/-0.519	0.749	1.00	pCi/g		AG2	08/20/23	1152	2471565		2

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	LC2	08/04/23	1300	2471473

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, Solid "Dry Weight Corrected"			97	(15%-125%)
Technetium-99m Tracer	Liquid Scint Tc99, Solid "As Received"			98.2	(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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QC Summary

Report Date: August 21, 2023

Page 1 of 15

Westinghouse Electric Co. LLC

5801 Bluff Road
Hopkins, South Carolina

Contact: Diana Joyner

Workorder: 632081

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Ion Chromatography											
Batch	2471784										
QC1205480075	632081001	DUP									
Fluoride		4.24		4.19	mg/kg	1.06 ^		(+/-1.00)	JLD1	08/04/23	20:44
Nitrate-N	J	0.448	J	0.476	mg/kg	6.15 ^		(+/-1.16)			
QC1205480074	LCS										
Fluoride	24.6			24.1	mg/kg		97.6	(90%-110%)		08/04/23	19:41
Nitrate-N	24.6			24.1	mg/kg		98	(90%-110%)			
QC1205480073	MB										
Fluoride			U	ND	mg/kg					08/04/23	19:09
Nitrate-N			U	ND	mg/kg						
QC1205480076	632081001	MS									
Fluoride	29.2	4.24		16.5	mg/kg		41.9*	(75%-125%)		08/04/23	21:16
Nitrate-N	29.2	J	0.448	28.4	mg/kg		95.7	(75%-125%)			
Metals Analysis - ICPMS											
Batch	2472541										
QC1205481595	632081001	DUP									
Nickel		0.0282		0.0280	mg/L	0.64 ^		(+/-0.0200)	BCD1	08/17/23	09:49
QC1205481594	LCS										
Nickel	0.500			0.507	mg/L		101	(80%-120%)		08/17/23	09:45
QC1205481593	MB										
Nickel			U	ND	mg/L					08/17/23	09:42

GEL LABORATORIES LLC

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

QC Summary

Workorder: 632081

Page 2 of 15

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Metals Analysis - ICPMS											
Batch 2472541											
QC1205480164	632081001	MS									
Nickel	2.00	0.0282		1.96	mg/L		96.7	(75%-125%)	BCD1	08/17/23	09:51
QC1205481596	632081001	SDILT									
Nickel		2.82	J	0.629	ug/L	11.4		(0%-20%)		08/17/23	09:55
QC1205480163	TB										
Nickel			U	ND	mg/L					08/17/23	09:44
Nutrient Analysis											
Batch 2471486											
QC1205479613	632081001	DUP									
Nitrogen, Ammonia		82.1		64.3	mg/kg	24.3*^		(+/-14.6)	AXH3	08/09/23	14:04
QC1205479615	632081011	DUP									
Nitrogen, Ammonia		95.0		64.2	mg/kg	38.7*^		(+/-13.6)		08/09/23	14:23
QC1205479612	LCS										
Nitrogen, Ammonia	50.0			30.4	mg/kg		60.8*	(90%-110%)		08/09/23	14:01
QC1205479611	MB										
Nitrogen, Ammonia			J	1.50	mg/kg					08/09/23	14:00
QC1205479614	632081001	MS									
Nitrogen, Ammonia	52.1	82.1		114	mg/kg		60.4*	(90%-110%)		08/09/23	14:05
QC1205479616	632081011	MS									
Nitrogen, Ammonia	51.6	95.0		126	mg/kg		60.5*	(90%-110%)		08/09/23	14:24
Volatile-GC/MS											
Batch 2475725											
QC1205486947	LCS										
1,1,1-Trichloroethane	50.0			51.4	ug/kg		103	(71%-131%)	PXY1	08/13/23	09:14

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QC Summary

Workorder: 632081

Page 3 of 15

Parname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS											
Batch	2475725										
1,1,2,2-Tetrachloroethane	50.0			47.2	ug/kg		94	(69%-123%)	PXY1	08/13/23	09:14
1,1,2-Trichloroethane	50.0			47.4	ug/kg		95	(73%-117%)			
1,1-Dichloroethane	50.0			50.8	ug/kg		102	(72%-121%)			
1,1-Dichloroethylene	50.0			51.1	ug/kg		102	(68%-128%)			
1,2,3-Trichlorobenzene	50.0			51.4	ug/kg		103	(68%-124%)			
1,2,4-Trichlorobenzene	50.0			49.2	ug/kg		98	(66%-128%)			
1,2-Dibromo-3-chloropropane	50.0			52.1	ug/kg		104	(61%-134%)			
1,2-Dibromoethane	50.0			48.3	ug/kg		97	(76%-122%)			
1,2-Dichlorobenzene	50.0			47.0	ug/kg		94	(73%-116%)			
1,2-Dichloroethane	50.0			42.9	ug/kg		86	(66%-119%)			
1,2-Dichloropropane	50.0			45.3	ug/kg		91	(71%-120%)			
1,3-Dichlorobenzene	50.0			45.5	ug/kg		91	(71%-120%)			
1,4-Dichlorobenzene	50.0			47.4	ug/kg		95	(71%-113%)			
2-Butanone	250			202	ug/kg		81	(61%-134%)			
2-Hexanone	250			193	ug/kg		77	(58%-146%)			

GEL LABORATORIES LLC

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

QC Summary

Workorder: 632081

Page 4 of 15

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS											
Batch	2475725										
4-Methyl-2-pentanone	250			212	ug/kg		85	(65%-126%)	PXY1	08/13/23	09:14
Acetone	250			247	ug/kg		99	(60%-138%)			
Benzene	50.0			47.8	ug/kg		96	(71%-120%)			
Bromochloromethane	50.0			51.6	ug/kg		103	(73%-123%)			
Bromodichloromethane	50.0			51.8	ug/kg		104	(72%-130%)			
Bromoform	50.0			53.3	ug/kg		107	(65%-134%)			
Bromomethane	50.0			43.8	ug/kg		88	(61%-138%)			
Carbon disulfide	250			223	ug/kg		89	(68%-133%)			
Carbon tetrachloride	50.0			51.9	ug/kg		104	(70%-136%)			
Chlorobenzene	50.0			47.3	ug/kg		95	(73%-118%)			
Chloroethane	50.0			47.5	ug/kg		95	(67%-125%)			
Chloroform	50.0			50.4	ug/kg		101	(75%-124%)			
Chloromethane	50.0			42.6	ug/kg		85	(55%-131%)			
Cyclohexane	50.0			44.6	ug/kg		89	(63%-128%)			
Dibromochloromethane	50.0			50.8	ug/kg		102	(72%-130%)			

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QC Summary

Workorder: 632081

Page 5 of 15

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS											
Batch	2475725										
Dichlorodifluoromethane	50.0			53.0	ug/kg		106	(48%-156%)	PXY1	08/13/23	09:14
Ethylbenzene	50.0			43.8	ug/kg		88	(71%-118%)			
Isopropylbenzene	50.0			46.1	ug/kg		92	(70%-122%)			
Methyl acetate	250			238	ug/kg		95	(61%-134%)			
Methylcyclohexane	50.0			46.1	ug/kg		92	(65%-127%)			
Methylene chloride	50.0			45.5	ug/kg		91	(70%-120%)			
Naphthalene	50.0			49.1	ug/kg		98	(70%-126%)			
Styrene	50.0			42.8	ug/kg		86	(72%-124%)			
Tetrachloroethylene	50.0			50.4	ug/kg		101	(70%-125%)			
Toluene	50.0			47.7	ug/kg		95	(71%-119%)			
Trichloroethylene	50.0			49.8	ug/kg		100	(72%-117%)			
Trichlorofluoromethane	50.0			51.0	ug/kg		102	(65%-131%)			
Vinyl chloride	50.0			40.7	ug/kg		81	(64%-132%)			
cis-1,2-Dichloroethylene	50.0			49.4	ug/kg		99	(71%-124%)			
cis-1,3-Dichloropropylene	50.0			45.6	ug/kg		91	(74%-129%)			

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QC Summary

Workorder: 632081

Page 6 of 15

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS											
Batch	2475725										
m,p-Xylenes	100			89.4	ug/kg		89	(71%-120%)	PXY1	08/13/23	09:14
o-Xylene	50.0			47.2	ug/kg		94	(71%-122%)			
tert-Butyl methyl ether	50.0			41.3	ug/kg		83	(64%-130%)			
trans-1,2-Dichloroethylene	50.0			49.1	ug/kg		98	(71%-122%)			
trans-1,3-Dichloropropylene	50.0			46.3	ug/kg		93	(74%-125%)			
**1,2-Dichloroethane-d4	50.0			48.5	ug/L		97	(76%-127%)			
**Bromofluorobenzene	50.0			49.8	ug/L		100	(70%-130%)			
**Toluene-d8	50.0			50.3	ug/L		101	(81%-120%)			
QC1205486948 LCSD											
1,1,1-Trichloroethane	50.0			51.1	ug/kg	1	102	(0%-20%)		08/13/23	09:43
1,1,2,2-Tetrachloroethane	50.0			48.5	ug/kg	3	97	(0%-20%)			
1,1,2-Trichloroethane	50.0			48.5	ug/kg	2	97	(0%-20%)			
1,1-Dichloroethane	50.0			50.5	ug/kg	1	101	(0%-20%)			
1,1-Dichloroethylene	50.0			50.4	ug/kg	1	101	(0%-20%)			
1,2,3-Trichlorobenzene	50.0			52.2	ug/kg	1	104	(0%-20%)			
1,2,4-Trichlorobenzene	50.0			50.2	ug/kg	2	100	(0%-20%)			

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QC Summary

Workorder: 632081

Page 7 of 15

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS											
Batch	2475725										
1,2-Dibromo-3-chloropropane	50.0			54.7	ug/kg	5	109	(0%-20%)	PXY1	08/13/23	09:43
1,2-Dibromoethane	50.0			48.3	ug/kg	0	97	(0%-20%)			
1,2-Dichlorobenzene	50.0			47.5	ug/kg	1	95	(0%-20%)			
1,2-Dichloroethane	50.0			43.3	ug/kg	1	87	(0%-20%)			
1,2-Dichloropropane	50.0			46.1	ug/kg	2	92	(0%-20%)			
1,3-Dichlorobenzene	50.0			46.7	ug/kg	3	93	(0%-20%)			
1,4-Dichlorobenzene	50.0			48.6	ug/kg	3	97	(0%-20%)			
2-Butanone	250			210	ug/kg	4	84	(0%-20%)			
2-Hexanone	250			192	ug/kg	1	77	(0%-20%)			
4-Methyl-2-pentanone	250			210	ug/kg	1	84	(0%-20%)			
Acetone	250			251	ug/kg	2	100	(0%-20%)			
Benzene	50.0			47.6	ug/kg	0	95	(0%-20%)			
Bromochloromethane	50.0			51.9	ug/kg	1	104	(0%-20%)			
Bromodichloromethane	50.0			52.5	ug/kg	1	105	(0%-20%)			
Bromoform	50.0			56.3	ug/kg	5	113	(0%-20%)			

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QC Summary

Workorder: 632081

Page 8 of 15

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS											
Batch	2475725										
Bromomethane	50.0			44.0	ug/kg	0	88	(0%-20%)	PXY1	08/13/23	09:43
Carbon disulfide	250			221	ug/kg	1	88	(0%-20%)			
Carbon tetrachloride	50.0			51.8	ug/kg	0	104	(0%-20%)			
Chlorobenzene	50.0			47.2	ug/kg	0	94	(0%-20%)			
Chloroethane	50.0			47.3	ug/kg	0	95	(0%-20%)			
Chloroform	50.0			51.1	ug/kg	1	102	(0%-20%)			
Chloromethane	50.0			42.7	ug/kg	0	85	(0%-20%)			
Cyclohexane	50.0			44.2	ug/kg	1	88	(0%-20%)			
Dibromochloromethane	50.0			51.0	ug/kg	0	102	(0%-20%)			
Dichlorodifluoromethane	50.0			51.7	ug/kg	3	103	(0%-20%)			
Ethylbenzene	50.0			43.4	ug/kg	1	87	(0%-20%)			
Isopropylbenzene	50.0			45.9	ug/kg	0	92	(0%-20%)			
Methyl acetate	250			246	ug/kg	3	99	(0%-20%)			
Methylcyclohexane	50.0			45.8	ug/kg	1	92	(0%-20%)			
Methylene chloride	50.0			46.3	ug/kg	2	93	(0%-20%)			

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QC Summary

Workorder: 632081

Page 9 of 15

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS											
Batch	2475725										
Naphthalene	50.0			50.9	ug/kg	4	102	(0%-20%)	PXY1	08/13/23	09:43
Styrene	50.0			42.5	ug/kg	1	85	(0%-20%)			
Tetrachloroethylene	50.0			49.5	ug/kg	2	99	(0%-20%)			
Toluene	50.0			46.1	ug/kg	3	92	(0%-20%)			
Trichloroethylene	50.0			50.8	ug/kg	2	102	(0%-20%)			
Trichlorofluoromethane	50.0			50.0	ug/kg	2	100	(0%-20%)			
Vinyl chloride	50.0			42.3	ug/kg	4	85	(0%-20%)			
cis-1,2-Dichloroethylene	50.0			50.3	ug/kg	2	101	(0%-20%)			
cis-1,3-Dichloropropylene	50.0			47.2	ug/kg	3	94	(0%-20%)			
m,p-Xylenes	100			90.2	ug/kg	1	90	(0%-20%)			
o-Xylene	50.0			46.7	ug/kg	1	93	(0%-20%)			
tert-Butyl methyl ether	50.0			42.0	ug/kg	2	84	(0%-20%)			
trans-1,2-Dichloroethylene	50.0			48.5	ug/kg	1	97	(0%-20%)			
trans-1,3-Dichloropropylene	50.0			47.4	ug/kg	2	95	(0%-20%)			
**1,2-Dichloroethane-d4	50.0			48.9	ug/L		98	(76%-127%)			

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QC Summary

Workorder: 632081

Page 10 of 15

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS											
Batch	2475725										
**Bromofluorobenzene	50.0			50.3	ug/L		101	(70%-130%)	PXY1	08/13/23	09:43
**Toluene-d8	50.0			49.3	ug/L		99	(81%-120%)			
QC1205486949 MB											
1,1,1-Trichloroethane			U	ND	ug/kg					08/13/23	11:41
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						
1,2-Dichloroethane			U	ND	ug/kg						
1,2-Dichloropropane			U	ND	ug/kg						
1,3-Dichlorobenzene			U	ND	ug/kg						

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QC Summary

Workorder: 632081

Page 11 of 15

Parname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS											
Batch	2475725										
1,4-Dichlorobenzene			U	ND	ug/kg				PXY1	08/13/23	11:41
1-Chlorohexane			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						
Carbon tetrachloride			U	ND	ug/kg						
Chlorobenzene			U	ND	ug/kg						
Chloroethane			U	ND	ug/kg						

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QC Summary

Workorder: 632081

Page 12 of 15

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS											
Batch	2475725										
Chloroform			U	ND	ug/kg				PXY1	08/13/23	11:41
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						
Naphthalene			U	ND	ug/kg						
Styrene			U	ND	ug/kg						
Tetrachloroethylene			U	ND	ug/kg						
Toluene			U	ND	ug/kg						
Trichloroethylene			U	ND	ug/kg						

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QC Summary

Workorder: 632081

Page 13 of 15

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Volatile-GC/MS											
Batch	2475725										
Trichlorofluoromethane			U	ND	ug/kg				PXY1	08/13/23	11:41
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			51.9	ug/L		104	(76%-127%)			
**Bromofluorobenzene	50.0			50.2	ug/L		100	(70%-130%)			
**Toluene-d8	50.0			50.0	ug/L		100	(81%-120%)			

Notes:

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, the difference is >70%.

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QC Summary

Workorder: 632081

Page 14 of 15

Parname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
C	Analyte has been confirmed by GC/MS analysis										
B	The target analyte was detected in the associated blank.										
E	Concentration of the target analyte exceeds the instrument calibration range										
A	The TIC is a suspected aldol-condensation product										
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier										
N	Metals--The Matrix spike sample recovery is not within specified control limits										
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										
H	Analytical holding time was exceeded										
**	Analyte is a surrogate compound										
<	Result is less than value reported										
>	Result is greater than value reported										
h	Preparation or preservation holding time was exceeded										
R	Sample results are rejected										
Z	Paint Filter Test--Particulates passed through the filter, however no free liquids were observed.										
d	5-day BOD--The 2:1 depletion requirement was not met for this sample										
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.										
D	Results are reported from a diluted aliquot of the sample										
N/A	RPD or %Recovery limits do not apply.										
ND	Analyte concentration is not detected above the detection limit										
E	%difference of sample and SD is >10%. Sample concentration must meet flagging criteria										
NJ	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier										
E	General Chemistry--Concentration of the target analyte exceeds the instrument calibration range										
JNX	Non Calibrated Compound										
UJ	Compound cannot be extracted										
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.										
FB	Mercury was found present at quantifiable concentrations in field blanks received with these samples. Data associated with the blank are deemed invalid for reporting to regulatory agencies										
N1	See case narrative										
Y	Other specific qualifiers were required to properly define the results. Consult case narrative.										
Y	QC Samples were not spiked with this compound										
R	Per section 9.3.4.1 of Method 1664 Revision B, due to matrix spike recovery issues, this result may not be reported or used for regulatory compliance purposes.										
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										
e	5-day BOD--Test replicates show more than 30% difference between high and low values. The data is qualified per the method and can be used for reporting purposes										
J	See case narrative for an explanation										

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QC Summary

Workorder: 632081

Page 15 of 15

<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.

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QC Summary

Report Date: August 21, 2023

Page 1 of 3

Westinghouse Electric Co. LLC

5801 Bluff Road
Hopkins, South Carolina

Contact: Diana Joyner

Workorder: 632081

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Alpha Spec											
Batch	2471611										
QC1205479781	632081001	DUP									
Uranium-233/234		1.21		1.25	pCi/g	3.32		(0% - 100%)	EJ1	08/09/23	08:37
	Uncertainty	+/-0.395		+/-0.448							
Uranium-235/236		0.112	U	0.0476	pCi/g	24.3		N/A			
	Uncertainty	+/-0.147		+/-0.134							
Uranium-238		0.696		0.829	pCi/g	17.5		(0% - 100%)			
	Uncertainty	+/-0.298		+/-0.364							
Uranium-Total		2.02		2.13	pCi/g	5.32		(0%-20%)			
	Uncertainty	+/-0.516		+/-0.593							
QC1205479782	LCS										
Uranium-233/234				11.8	pCi/g					08/09/23	08:37
	Uncertainty			+/-1.03							
Uranium-235/236				0.589	pCi/g						
	Uncertainty			+/-0.265							
Uranium-238		12.0		12.2	pCi/g		101	(75%-125%)			
	Uncertainty			+/-1.04							
Uranium-Total				24.6	pCi/g						
	Uncertainty			+/-1.49							
QC1205479780	MB										
Uranium-233/234			U	0.00983	pCi/g					08/09/23	08:35
	Uncertainty			+/-0.110							
Uranium-235/236			U	0.0108	pCi/g						
	Uncertainty			+/-0.113							
Uranium-238			U	-0.0301	pCi/g						
	Uncertainty			+/-0.0697							
Uranium-Total			U	0.0207	pCi/g						
	Uncertainty			+/-0.173							

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QC Summary

Workorder: 632081

Page 2 of 3

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Rad Liquid Scintillation											
Batch	2471565										
QC1205479708	632081001	DUP									
Technetium-99	U	-0.125	U	-0.0246	pCi/g	N/A		N/A	AG2	08/20/23	16:56
	Uncertainty	+/-0.393		+/-0.429							
QC1205479709	LCS										
Technetium-99	25.1			22.6	pCi/g		89.7	(75%-125%)		08/20/23	17:13
	Uncertainty			+/-1.15							
QC1205479707	MB										
Technetium-99			U	0.307	pCi/g					08/20/23	16:40
	Uncertainty			+/-0.340							

Notes:

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

The Qualifiers in this report are defined as follows:

- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- J Value is estimated
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- H Analytical holding time was exceeded
- < Result is less than value reported
- > Result is greater than value reported
- UI Gamma Spectroscopy--Uncertain identification
- BD Results are either below the MDC or tracer recovery is low
- h Preparation or preservation holding time was exceeded
- R Sample results are rejected
- ^ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
- N/A RPD or %Recovery limits do not apply.
- ND Analyte concentration is not detected above the detection limit
- M M if above MDC and less than LLD
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- FA Failed analysis.
- UJ Gamma Spectroscopy--Uncertain identification
- Q One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
- K Analyte present. Reported value may be biased high. Actual value is expected to be lower.
- UL Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.
- L Analyte present. Reported value may be biased low. Actual value is expected to be higher.
- NI See case narrative
- Y Other specific qualifiers were required to properly define the results. Consult case narrative.

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QC Summary

Workorder: 632081

Page 3 of 3

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
**	Analyte is a Tracer compound										
M	REMP Result > MDC/CL and < RDL										
J	See case narrative for an explanation										

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 #: 632081**

GC/MS Volatile

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

Analytical Method: SW846 8260D

Analytical Procedure: GL-OA-E-038 REV# 29

Analytical Batch: 2475725

Preparation Method: SW846 5035

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

Preparation Batch: 2475724

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
632081001	CB-131A-SOIL-20230803
632081002	CB-131B-SOIL-20230803
632081003	CB-120A-SED-20230803
632081004	CB-120B-SOIL-20230803
632081005	CB-119A-SED-20230803
632081006	CB-119B-SED-20230803
632081007	CB-118A-SOIL-20230803
632081008	CB-118B-SOIL-20230803
632081009	CB-116A-SOIL-20230803
632081010	CB-116B-SED-20230803
632081011	CB-115A-SOIL-20230803
632081012	CB-115B-SED-20230803
632081013	ECHO-A-SED-20230803
632081014	ECHO-B-SED-20230803
632081015	ROADWAY-B-SED-20230803
1205486947	Laboratory Control Sample (LCS)
1205486948	Laboratory Control Sample Duplicate (LCSD)
1205486949	Method Blank (MB)

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.

Quality Control (QC) Information

Laboratory Control Sample Duplicate (LCSD)

An LCS/LCSD pair 1205486947 (LCS) and 1205486948 (LCSD) were analyzed in order to demonstrate precision and accuracy.

Metals

TCLP Preparation Method: SW846 1311

TCLP Preparation Procedure: GL-LB-E-006 REV# 22

TCLP Preparation Batch: 2471840

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
632081001	CB-131A-SOIL-20230803
632081002	CB-131B-SOIL-20230803
632081003	CB-120A-SED-20230803
632081004	CB-120B-SOIL-20230803
632081005	CB-119A-SED-20230803
632081006	CB-119B-SED-20230803
632081007	CB-118A-SOIL-20230803
632081008	CB-118B-SOIL-20230803
632081009	CB-116A-SOIL-20230803
632081010	CB-116B-SED-20230803
632081011	CB-115A-SOIL-20230803
632081012	CB-115B-SED-20230803
632081013	ECHO-A-SED-20230803
632081014	ECHO-B-SED-20230803
632081015	ROADWAY-B-SED-20230803
1205480163	Tumble Blank (TB)
1205480164	632081001(CB-131A-SOIL-20230803S) Matrix Spike (MS)

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

If TCLP spiking is performed in the TCLP lab prior to preservation, only heavy metals are present in the spiking solutions due to solubility issues.

Product: Determination of Metals by ICP-MS

Analytical Method: SW846 3010A/6020B

Analytical Procedure: GL-MA-E-014 REV# 36

Analytical Batch: 2472541

Preparation Method: SW846 3010A

Preparation Procedure: GL-MA-E-008 REV# 19

Preparation Batch: 2472540

TCLP Preparation Method: SW846 1311

TCLP Preparation Procedure: GL-LB-E-006 REV# 22

TCLP Preparation Batch: 2471840

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
632081001	CB-131A-SOIL-20230803
632081002	CB-131B-SOIL-20230803
632081003	CB-120A-SED-20230803
632081004	CB-120B-SOIL-20230803
632081005	CB-119A-SED-20230803
632081006	CB-119B-SED-20230803
632081007	CB-118A-SOIL-20230803
632081008	CB-118B-SOIL-20230803
632081009	CB-116A-SOIL-20230803
632081010	CB-116B-SED-20230803
632081011	CB-115A-SOIL-20230803
632081012	CB-115B-SED-20230803
632081013	ECHO-A-SED-20230803
632081014	ECHO-B-SED-20230803
632081015	ROADWAY-B-SED-20230803
1205480163	Tumble Blank (TB)
1205481593	Method Blank (MB) ICP-MS
1205481594	Laboratory Control Sample (LCS)
1205481596	632081001(CB-131A-SOIL-20230803L) Serial Dilution (SD)
1205481595	632081001(CB-131A-SOIL-20230803D) Sample Duplicate (DUP)
1205480164	632081001(CB-131A-SOIL-20230803S) Matrix Spike (MS)

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

ICSA/ICSAB Statement

For the ICP-MS analysis, the ICSA solution contains analyte concentrations which are verified trace impurities indigenous to the purchased standard.

Technical Information

Preparation Information

The extracted samples and associated matrix QC were prepared at a ten times or greater dilution factor to minimize potential interferences from leached or filtered extracts.

General Chemistry

Product: Ion Chromatography

Analytical Method: SW846 9056A

Analytical Procedure: GL-GC-E-086 REV# 32

Analytical Batches: 2471784 and 2471783

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
632081001	CB-131A-SOIL-20230803
632081002	CB-131B-SOIL-20230803
632081003	CB-120A-SED-20230803
632081004	CB-120B-SOIL-20230803
632081005	CB-119A-SED-20230803
632081006	CB-119B-SED-20230803
632081007	CB-118A-SOIL-20230803
632081008	CB-118B-SOIL-20230803
632081009	CB-116A-SOIL-20230803
632081010	CB-116B-SED-20230803
632081011	CB-115A-SOIL-20230803
632081012	CB-115B-SED-20230803
632081013	ECHO-A-SED-20230803
632081014	ECHO-B-SED-20230803
632081015	ROADWAY-B-SED-20230803
1205480073	Method Blank (MB)
1205480074	Laboratory Control Sample (LCS)
1205480075	632081001(CB-131A-SOIL-20230803) Sample Duplicate (DUP)
1205480076	632081001(CB-131A-SOIL-20230803) Matrix Spike (MS)

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.

Quality Control (QC) Information

Matrix Spike (MS)/Post Spike (PS) Recovery Statement

The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Fluoride	1205480076 (CB-131A-SOIL-20230803MS)	41.9* (75%-125%)

Product: Ammonia Nitrogen

Analytical Method: EPA 350.1 Modified SC

Analytical Procedure: GL-GC-E-110 REV# 0

Analytical Batch: 2471486

Preparation Method: EPA 350.1 Modified Prep

Preparation Procedure: GL-GC-E-072 REV# 18

Preparation Batch: 2471485

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
632081001	CB-131A-SOIL-20230803
632081002	CB-131B-SOIL-20230803
632081003	CB-120A-SED-20230803
632081004	CB-120B-SOIL-20230803
632081005	CB-119A-SED-20230803
632081006	CB-119B-SED-20230803
632081007	CB-118A-SOIL-20230803
632081008	CB-118B-SOIL-20230803
632081009	CB-116A-SOIL-20230803
632081010	CB-116B-SED-20230803
632081011	CB-115A-SOIL-20230803
632081012	CB-115B-SED-20230803
632081013	ECHO-A-SED-20230803
632081014	ECHO-B-SED-20230803
632081015	ROADWAY-B-SED-20230803
1205479611	Method Blank (MB)
1205479612	Laboratory Control Sample (LCS)
1205479613	632081001(CB-131A-SOIL-20230803) Sample Duplicate (DUP)
1205479614	632081001(CB-131A-SOIL-20230803) Matrix Spike (MS)
1205479615	632081011(CB-115A-SOIL-20230803) Sample Duplicate (DUP)
1205479616	632081011(CB-115A-SOIL-20230803) Matrix Spike (MS)

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.

Quality Control (QC) Information

Matrix Spike (MS)/Post Spike (PS) Recovery Statement

The percent recoveries (%R) obtained from the spike analyses are evaluated when the sample concentration is less than four times (4X) the spike concentration added. The matrix spike recovered outside of the established acceptance limits due to matrix interference and/or non-homogeneity.

Analyte	Sample	Value
Nitrogen, Ammonia	1205479614 (CB-131A-SOIL-20230803MS)	60.4* (90%-110%)
	1205479616 (CB-115A-SOIL-20230803MS)	60.5* (90%-110%)

Duplicate Relative Percent Difference (RPD) Statement

The Relative Percent Difference (RPD) between the sample and duplicate falls outside of the established acceptance limits because of the heterogeneous matrix of the sample:

Analyte	Sample	Value
Nitrogen, Ammonia	1205479613 (CB-131A-SOIL-20230803DUP)	abs(64.3 - 82.1)* (+/-14.6 mg/kg)

	1205479615 (CB-115A-SOIL-20230803DUP)	abs(64.2 - 95)* (+/-13.6 mg/kg)
--	---------------------------------------	---------------------------------

Technical Information

Sample Dilutions

The following samples 1205479613 (CB-131A-SOIL-20230803DUP), 1205479614 (CB-131A-SOIL-20230803MS), 1205479615 (CB-115A-SOIL-20230803DUP), 1205479616 (CB-115A-SOIL-20230803MS), 632081001 (CB-131A-SOIL-20230803), 632081002 (CB-131B-SOIL-20230803), 632081003 (CB-120A-SED-20230803), 632081011 (CB-115A-SOIL-20230803) and 632081014 (ECHO-B-SED-20230803) were diluted because target analyte concentrations exceeded the calibration range. Dilutions may be required for many reasons, including to minimize matrix interferences or to bring over range target analyte concentrations into the linear calibration range.

Analyte	632081				
	001	002	003	011	014
Nitrogen, Ammonia	5X	5X	5X	5X	5X

Sample Re-analysis

Sample 1205479612 (LCS) was re-analyzed due to LCS failure. The reanalysis data with passing instrument QC was reported.

Radiochemistry

Product: Alphaspec U, Solid

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

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

Analytical Batch: 2471611

Preparation Method: Dry Soil Prep

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

Preparation Batch: 2471473

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
632081001	CB-131A-SOIL-20230803
632081002	CB-131B-SOIL-20230803
632081003	CB-120A-SED-20230803
632081004	CB-120B-SOIL-20230803
632081005	CB-119A-SED-20230803
632081006	CB-119B-SED-20230803
632081007	CB-118A-SOIL-20230803
632081008	CB-118B-SOIL-20230803
632081009	CB-116A-SOIL-20230803
632081010	CB-116B-SED-20230803
632081011	CB-115A-SOIL-20230803
632081012	CB-115B-SED-20230803
632081013	ECHO-A-SED-20230803

632081014	ECHO-B-SED-20230803
632081015	ROADWAY-B-SED-20230803
1205479780	Method Blank (MB)
1205479781	632081001(CB-131A-SOIL-20230803) Sample Duplicate (DUP)
1205479782	Laboratory Control Sample (LCS)

The samples in this SDG were analyzed on a "dry weight" 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: Dry Weight

Preparation Method: ASTM D 2216 (Modified)

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

Preparation Batch: 2471473

Preparation Method: Dry Soil Prep

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

Preparation Batch: 2471473

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
632081001	CB-131A-SOIL-20230803
632081002	CB-131B-SOIL-20230803
632081003	CB-120A-SED-20230803
632081004	CB-120B-SOIL-20230803
632081005	CB-119A-SED-20230803
632081006	CB-119B-SED-20230803
632081007	CB-118A-SOIL-20230803
632081008	CB-118B-SOIL-20230803
632081009	CB-116A-SOIL-20230803
632081010	CB-116B-SED-20230803
632081011	CB-115A-SOIL-20230803
632081012	CB-115B-SED-20230803
632081013	ECHO-A-SED-20230803
632081014	ECHO-B-SED-20230803
632081015	ROADWAY-B-SED-20230803

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, Solid

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

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

Analytical Batch: 2471565

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
632081001	CB-131A-SOIL-20230803
632081002	CB-131B-SOIL-20230803
632081003	CB-120A-SED-20230803
632081004	CB-120B-SOIL-20230803
632081005	CB-119A-SED-20230803
632081006	CB-119B-SED-20230803
632081007	CB-118A-SOIL-20230803
632081008	CB-118B-SOIL-20230803
632081009	CB-116A-SOIL-20230803
632081010	CB-116B-SED-20230803
632081011	CB-115A-SOIL-20230803
632081012	CB-115B-SED-20230803
632081013	ECHO-A-SED-20230803
632081014	ECHO-B-SED-20230803
632081015	ROADWAY-B-SED-20230803
1205479707	Method Blank (MB)
1205479708	632081001(CB-131A-SOIL-20230803) Sample Duplicate (DUP)
1205479709	Laboratory Control Sample (LCS)

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

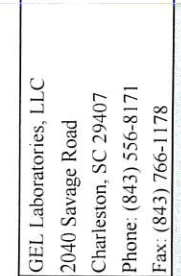
Preparation Information

Aliquot Reduced

632081014 (ECHO-B-SED-20230803) and 632081015 (ROADWAY-B-SED-20230803) aliquot volumes were reduced due to the sample matrix. Samples 632081014 (ECHO-B-SED-20230803) and 632081015 (ROADWAY-B-SED-20230803) were reduced due to organic matrix

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.



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

GEL Work Order Number:
 Phone #: 803.497.7062
 Fax #:

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

Sample ID: **632081**
 *For composites - indicate start and stop date/time
 Collected By: Randy Crews *Randy*
 Send Results To: joynerdp@westinghouse.com

Sample ID	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (a)	Field Filtered (b)	Sample Matrix (c)	Radioactive (if yes, please supply isotope info)	(7) Known or possible Hazards	Total number of containers	Isotopes (ASP)	TC-99	VOC*	Nitrate	Fluoride	Ammonia	Nickel by TCLP	Preservative Type (6)	Comments
CB-131A-SOIL-20230803	8/3/2023	1013	G	N	SO			5	X	X	X	X	X	X	X		*No pesticides or herbicide
CB-131B-SOIL-20230803	8/3/2023	1017	G	N	SO			5	X	X	X	X	X	X	X		
CB-120A-SED-20230803	8/3/2023	1030	G	N	SD			5	X	X	X	X	X	X	X		
CB-120B-SOIL-20230803	8/3/2023	1041	G	N	SO			5	X	X	X	X	X	X	X		
CB-119A-SED-20230803	8/3/2023	1050	G	N	SD			5	X	X	X	X	X	X	X		
CB-119B-SED-20230803	8/3/2023	1059	G	N	SD			5	X	X	X	X	X	X	X		
CB-118A-SOIL-20230803	8/3/2023	0846	G	N	SO			5	X	X	X	X	X	X	X		
CB-118B-SOIL-20230803	8/3/2023	0856	G	N	SO			5	X	X	X	X	X	X	X		

Chain of Custody Signatures
 Relinquished By (Signed) _____ Date _____ Time _____
 Received by (signed) _____ Date _____ Time _____
 1. *PCAW* 8/3/23 1240
 2. *SPW* 8/3/23 1700
 3. _____

TAT Requested: Normal: _____ Rush: Specify: 2 week
 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: _____ °C
 Sample Collection Time Zone: Eastern Pacific Central Mountain Other:

- Chain of Custody Number = Client Determined
- QC Codes N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike Sample, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite
- Field Filtered For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered
- Matrix Codes DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Waste Water, W=Water, ML=Misc Liquid, SO=Soil, SD=Sediment, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urme, F=Fecal, N=Nasal
- 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)
- 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
- KNOWN OR POSSIBLE HAZARDS**
 Characteristic Hazards
 FL = Flammable/Ignitable
 CO = Corrosive
 RE = Reactive
 TSCA Regulated
 PCB = Polychlorinated biphenyls
 RCRA Metals
 As = Arsenic Hg = Mercury
 Ba = Barium Se = Selenium
 Cd = Cadmium Ag = Silver
 Cr = Chromium MR = Misc. RCRA metals
 Pb = Lead
 Listed Waste
 LW = Listed Waste
 (F,K,P and U-listed wastes.)
 Waste code(s):
 Other
 OT = Other / Unknown
 (i.e.: High/low pH, asbestos, beryllium, irritants, other misc. health hazards, etc.)
 Description:

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

GEL Laboratories LLC
 Chemistry | Radiochemistry | Radiobiology | Specialty Analytics
Chain of Custody and Analytical Request
GEL Work Order Number: Phone #: 803.497.7062
GEL Project Manager: Delaney Stone
 GEL Laboratories, LLC
 2040 Savage Road
 Charleston, SC 29407
 Phone: (843) 556-8171
 Fax: (843) 766-1178

Project # Middle Ditch
 L. Quote #:
 QC Number (1):
 Number: 4500822910 Line 1
 Client Name: Westinghouse Electric, CFF
 Project/Site Name:
 Address: 5801 Bluff Road, Hopkins, SC 29061

Collected By: Randy Crews *Randy* Send Results To: joynerdp@westinghouse.com

Sample ID	*Date Collected (mm-dd-yy)	*Time Collected (Military) (hhmm)	QC Code (2)	Field Filtered (3)	Sample Matrix (4)
CB-116A-SOIL-20230803	8/3/2023	0910	G	N	SO
CB-116B-SED-20230803	8/3/2023	0916	G	N	SD
CB-115A-SOIL-20230803	8/3/2023	0932	G	N	SO
CB-115B-SED-20230803	8/3/2023	0938	G	N	SD
ECHO-A-SED-20230803	8/3/2023	0830	G	N	SD
ECHO-B-SED-20230803	8/3/2023	0835	G	N	SD
ROADWAY-B-SED-20230803	8/3/2023	1121	G	N	SD

Chain of Custody Signatures
 Relinquished By (Signed) Date Time Received by (signed) Date Time
 1 *Randy* 8/3/23 1248 *[Signature]* 8/3/23 1248
 2 *[Signature]* 8/3/23 1700 *[Signature]* 8/3/23 1700
 3

For sample shipping and delivery details, see Sample Receipt & Review form (SRR).
 1) Chain of Custody Number = Client Determined
 2) QC Codes: N = Normal Sample, TB = Trip Blank, ED = 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, WW=Surface Water, SW=Groundwater, GW=Groundwater, W=Water, ML=Misc Liquid, SO=Soil, SD=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Feet, N=Nasal
 5) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1)
 6) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank
 7) **KNOWN OR POSSIBLE HAZARDS**
 FL = Flammable/Ignitable
 CO = Corrosive
 RE = Reactive
TSCA Regulated
 PCB = Polychlorinated biphenyls
RCRA Metals
 AS = Arsenic
 Ba = Barium
 Cd = Cadmium
 Cr = Chromium
 Hg = Mercury
 Se = Selenium
 Ag = Silver
 MR = Misc. RCRA metals
 Pb = Lead

Sample Collection Time Zone: Eastern Pacific Central Mountain Other:
For Lab Receiving Use Only: Custody Seal Intact? Yes No **Cooler Temp:** _____ °C

TAT Requested: Normal: _____ Rush: Specify: 2 week

Fax Results: Yes No
 Select Deliverable: C of A QC Summary Level 1 Level 2 Level 3 Level 4
 Additional Remarks:

Should this sample be considered:	Total number of containers	TC-99	VOC*	Nitrate	Fluoride	Ammonia	Comments
Yes, please supply isotopic info) (7) Known or possible Hazards	5	X	X	X	X	X	Note: extra sample is required for sample specific QC
Radioactive (if yes, please supply isotopic info)	5	X	X	X	X	X	*No pesticides or herbicide
	5	X	X	X	X	X	
	5	X	X	X	X	X	
	5	X	X	X	X	X	
	5	X	X	X	X	X	
	5	X	X	X	X	X	

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

SAMPLE RECEIPT & REVIEW FORM

Client: <u>WNUC</u>		SDG/AR/COC/Work Order: <u>652-081</u>	
Received By: <u>SNS</u>		Date Received: <u>8/13/23</u>	
Carrier and Tracking Number		Circle Applicable: FedEx Express FedEx Ground UPS Field Services Courier <input checked="" type="radio"/> Other	
		<u>Cooler 1-1c Cooler 2-1c</u>	
Suspected Hazard Information		Yes	No
		<input checked="" type="checkbox"/>	<input type="checkbox"/>
*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>0</u> CPM/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. PCBs Flammable Foreign Soil RCRA Asbestos Beryllium Other:	
Sample Receipt Criteria		Yes	NA
		Yes	No
1	Shipping containers received intact and sealed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Circle Applicable: Seals broken Damaged container Leaking container Other (describe)	
2	Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>	<input 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"/>	<input type="checkbox"/>
		Preservation Method: <u>Wet Ice</u> Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: <u>1c</u>	
4	Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Temperature Device Serial #: <u>IR1-23</u> Secondary Temperature Device Serial # (If Applicable):	
5	Sample containers intact and sealed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Circle Applicable: Seals broken Damaged container Leaking container Other (describe)	
6	Samples requiring chemical preservation at proper pH?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Sample ID's and Containers Affected: If Preservation added, Lot#:	
7	Do any samples require Volatile Analysis?	<input checked="" type="checkbox"/>	<input 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 ___ <input checked="" type="checkbox"/> Sample ID's and containers affected:	
8	Samples received within holding time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		ID's and tests affected:	
9	Sample ID's on COC match ID's on bottles?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		ID's and containers affected:	
10	Date & time on COC match date & time on bottles?	<input checked="" type="checkbox"/>	<input 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"/>	<input 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"/>	<input type="checkbox"/>
13	COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
		Circle Applicable: Not relinquished Other (describe)	
Comments (Use Confirmation Form if needed):			

PM (or PMA) review: Initials JM Date 8-7-23 Page 1 of 1

List of current GEL Certifications as of 21 August 2023

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	SC000122023-4
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	2022-160
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	T104704235-22-20
Utah NELAP	SC000122022-37
Vermont	VT87156
Virginia NELAP	460202
Washington	C780