

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

SCDHEC, BLWM Kim Kuhn 2600 Bull Street Columbia, SC 29201 Direct tel: 803.647.1920 Direct fax: 803.695.3964 e-mail: joynerdp@westinghouse.com Your ref: Our ref: LTR-RAC-22-22

April 5, 2022

Subject: March 2022 CA Progress Report

Ms. Kuhn:

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

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

In response to the above requirements, the following is being reported to the Department since the last progress report submitted on **March 8, 2022.** The following progress report is for work occurring from **March 1- 31, 2022**:

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

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

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

- On March 4, 2022, Westinghouse conducted systematic soil sampling in accordance with the approved SSA OU Soil Sampling Work Plan in the former footprint of two sheds (S-04 and S-06). Final analytical results were received from the external laboratory in March. All soil samples collected were below residential screening levels. A consolidated data table and graphic of sampling locations are included as **Attachment A** of this monthly report.
- (c) Brief description of all actions which are scheduled for the next month:

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

- Ship the last two trailers containing legacy UF₆ cylinders following Nuclear Regulatory Commission (NRC) approval of the Alternate Disposal Request on March 18, 2022.
- Continue working on item #6 of the Consent Agreement, the Remedial Investigation Report.
- Complete draft Baseline Risk Assessment and begin CFFF internal review.
- Revise the draft cultural resources report to include recommendations made by the State Historic Preservation Office (SHPO) & other stakeholders and resubmit the draft for final review by the SHPO.
- Conduct semi-annual groundwater sampling (118 wells).

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

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

Respectfully,

Monty

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

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

Attachment A: Soil Sampling Results Under Sheds S-04 and S-06

Attachment A

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

Tabulated Soil Sampling Results and Sum of Fractions Calculations

Soil Sampling Location Map

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

Attachment A

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

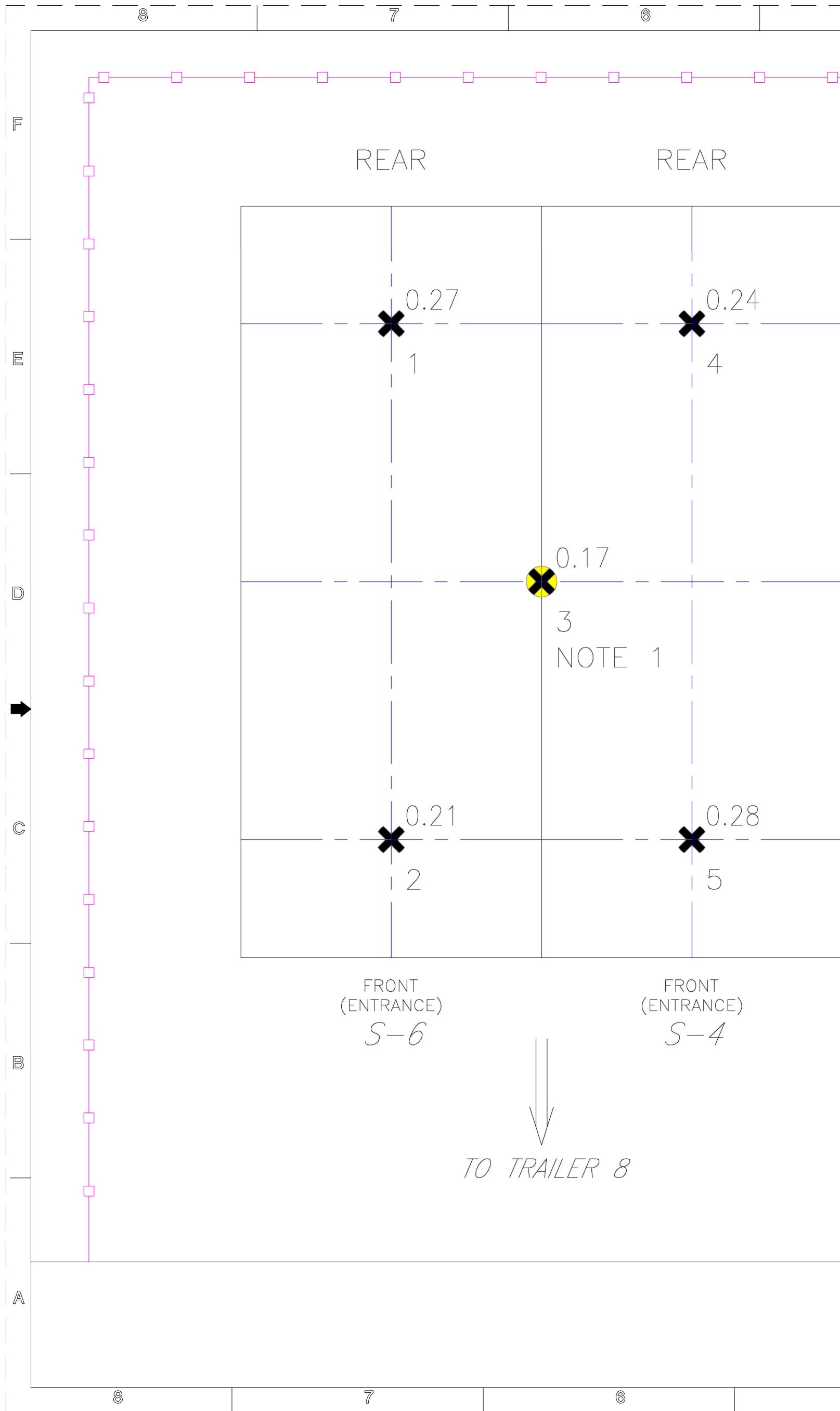
| Sample | | SOF | SOF | | | | | | | | |
|---------|---|-----|-------|--------|-------|------|---|-------|---|------|------|
| ID | U-234 U-235 DL U-235 U-238 Sum U Tc-99 DL Tc-99 | | | | | | | | | | Ind. |
| S-6-1 | 1.68 | < | 0.231 | 0.229 | 1.51 | 3.42 | < | 0.734 | 0 | 0.27 | 0.01 |
| S-6-2 | 1.39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

Notes:

Negative values reflected as zero

All VOC results, including tetrachloroethylene were non-detectable.

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



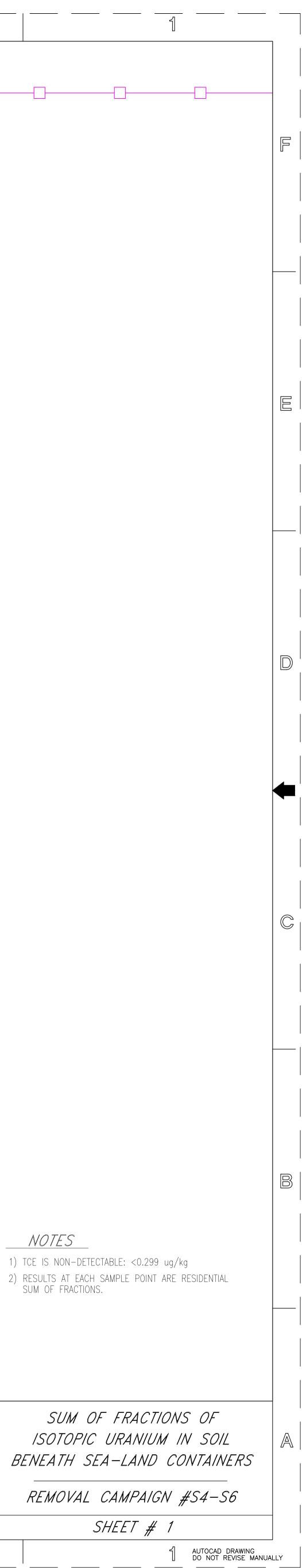
| <u> </u> | 5 | | 3 | |
|----------|---|------|---|------|
| | | | | |

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

NOTES

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

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





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March 22, 2022

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

Re: Sealand Soil Sampling Work Order: 572654

Dear Ms. Teague:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on March 09, 2022. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

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

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4523.

Sincerely,

clary Stone

Delaney Stone for Samuel Hogan Project Manager

Purchase Order: 4500822910 Ln 1 Enclosures



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Certificate of Analysis Report for

WNUC010 Westinghouse Electric Company PO (4500822910)

Client SDG: 572654 GEL Work Order: 572654

The Qualifiers in this report are defined as follows:

- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a Tracer compound
- ** Analyte is a surrogate compound
- B The target analyte was detected in the associated blank.
- J See case narrative for an explanation
- J Value is estimated
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.

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

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

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

Pelary Stone

Reviewed by



a member of The GEL Group INC



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Analytical Detections Summary

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

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Certificate of Analysis

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

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Certificate of Analysis

Report Date: March 22, 2022

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

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

Notes:

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

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

MDA: Minimum Detectable Activity MDC: Minimum Detectable Concentration

RL: Reporting Limit SQL: Sample Quantitation Limit

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

Column headers are defined as follows:

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Certificate of Analysis

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

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

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

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

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QC Summary

Report Date: March 22, 2022

Page 1 of 15

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

Workorder: 572654

Contact:

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

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

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

| Workordon 550654 | | | | <u></u> | | | | | |
|--|------|-------------|------|---------|------|------|------------|-------|----------------|
| Workorder: 572654 | | | | | | | | | Page 4 of 15 |
| Parmname Volatile-GC/MS | NOM | Sample Qual | QC | Units | RPD% | REC% | Range | Anlst | Date Time |
| Batch 2241941 | | | | | | | | | |
| **1,2-Dichloroethane-d4 | 50.0 | | 45.9 | ug/L | | 92 | (76%-127%) | JM6 | 03/16/22 08:35 |
| **Bromofluorobenzene | 50.0 | | 50.9 | ug/L | | 102 | (70%-130%) |) | |
| **Toluene-d8 | 50.0 | | 47.7 | ug/L | | 95 | (81%-120%) |) | |
| QC1205042652 MB 1,1,1,2-Tetrachloroethane | | U | ND | ug/kg | | | | | 03/16/22 10:23 |
| 1,1,1-Trichloroethane | | U | ND | ug/kg | | | | | |
| 1,1,2,2-Tetrachloroethane | | U | ND | ug/kg | | | | | |
| 1,1,2-Trichloroethane | | U | ND | ug/kg | | | | | |
| 1,1-Dichloroethane | | U | ND | ug/kg | | | | | |
| 1,1-Dichloroethylene | | U | ND | ug/kg | | | | | |
| 1,2,3-Trichloropropane | | U | ND | ug/kg | | | | | |
| 1,2,4-Trichlorobenzene | | U | ND | ug/kg | | | | | |
| 1,2-Dibromo-3-chloropropane | | U | ND | ug/kg | | | | | |
| 1,2-Dibromoethane | | U | ND | ug/kg | | | | | |
| 1,2-Dichloroethane | | U | ND | ug/kg | | | | | |
| 1,2-Dichloropropane | | U | ND | ug/kg | | | | | |

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

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

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

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

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

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

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

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

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

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QC Summary

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

Notes:

The Qualifiers in this report are defined as follows:

** Analyte is a surrogate compound

- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B The target analyte was detected in the associated blank.
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- E Concentration of the target analyte exceeds the instrument calibration range
- H Analytical holding time was exceeded
- J See case narrative for an explanation
- J Value is estimated
- JNX Non Calibrated Compound
- N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
- N Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
- $N\!/\!A$ $\,$ RPD or %Recovery limits do not apply.
- N1 See case narrative
- ND Analyte concentration is not detected above the detection limit
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

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QC Summary

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

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

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

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

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QC Summary

Report Date: March 22, 2022

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

Workorder: 572654

Contact:

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

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QC Summary

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

Notes:

The Qualifiers in this report are defined as follows:

** Analyte is a Tracer compound

- Result is less than value reported <
- > Result is greater than value reported
- Results are either below the MDC or tracer recovery is low BD
- FA Failed analysis.
- Η Analytical holding time was exceeded
- J See case narrative for an explanation
- J Value is estimated
- Κ Analyte present. Reported value may be biased high. Actual value is expected to be lower.
- L Analyte present. Reported value may be biased low. Actual value is expected to be higher.
- M if above MDC and less than LLD Μ
- REMP Result > MDC/CL and < RDL Μ
- N/A RPD or %Recovery limits do not apply.
- N1 See case narrative
- ND Analyte concentration is not detected above the detection limit
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- One or more quality control criteria have not been met. Refer to the applicable narrative or DER. Q
- R Sample results are rejected
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- UI Gamma Spectroscopy--Uncertain identification
- UJ Gamma Spectroscopy--Uncertain identification
- UL Not considered detected. The associated number is the reported concentration, which may be inaccurate due to a low bias.
- Х Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- Other specific qualifiers were required to properly define the results. Consult case narrative. Y
- ٨ RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.
- h Preparation or preservation holding time was exceeded

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QC Summary

| Workorder: | 572654 | | | | | | | | Page 3 of 3 |
|------------|--------|-----|-------------|----|-------|------|------|-------------|-------------|
| Parmname | | NOM | Sample Qual | QC | Units | RPD% | REC% | Range Anlst | Date Time |

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable. ^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the

RL is used to evaluate the DUP result.

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

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

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

Technical Case Narrative Westinghouse Electric Company PO SDG #: 572654

GC/MS Volatile

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

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

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

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

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

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

Continuing Calibration Verification Requirements

All Calibration Verification Standards (CCV) did not meet the acceptance criteria as outlined in Method 8260D for sample 572654003 (S-4/6-3) and the associated QC. However, the method allows for a designated number of outliers dependent on the requested analyte list. This SDG satisfied the 8260D outlier acceptance criteria. The results are reported.

Quality Control (QC) Information

Matrix Spike/Matrix Spike Duplicate Recovery Statement

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

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

Relative Percent Difference (RPD) Statement

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

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

Radiochemistry

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

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

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

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

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

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Miscellaneous Information

Additional Comments

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

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

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

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

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

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

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

Data Summary:

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

Product: Liquid Scint Tc99, Soil Analytical Method: DOE EML HASL-300, Tc-02-RC Modified Analytical Procedure: GL-RAD-A-059 REV# 5 Analytical Batch: 2239256

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

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

1205037854 Laboratory Control Sample (LCS)

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

Data Summary:

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

<u>Certification Statement</u>

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

| Page: of Bicot # SEA ANCL Soil SAMOL into | | PSHC 572(54 GEL Laboratories, LLC | |
|--|---|--|---|
| GEL Quote #: CSC Ni(1) | gel.com Chemistry I Radiochemistry | ialty Analytics | |
| 500822910 LU 1 | GEL Work Order Number: GEI Protory Manager | | |
| સ શ્ | CO. Phone # 803-3 | Sample Analysis Requested ⁽⁵⁾ (Fill in the number of containers for each teer) | for each test) |
| Slatan | しいいて | | |
| OI BLUFF Rd. | Hopkins SC 29061 | sample be considered: | |
| lected By: R. Crews gen | Send Results To: C. Teague | 00 10 . . 01 CO | Comments |
| Sample ID * ^{Fer} commonies and control of the second seco | d 0 0C Field | olpu uquic and and and and and and and and and and | rouce: extra sample is required for sample specific QC |
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| | Chain of Custody Signatures | TAT Requested: Normal: Rush: X Specify: 2 WL | 2 WUXSSubject to Surcharge) |
| 1 by (Signed) Date | Received by signed) Date Time | Fax Results: [] Yes [] No | ~** |
| 3 9 22 001 | 1D. DOCKTER 3/3/22 1007 | Select Deliverable: [] C of A [] QC Summary [] level 1 [] Level 2 | [] Level 3 [] Level 4 |
| 2D Dockton -> Sewer Location 3/9/22 00 | 0945 2 01 3929 , 1100 . | | |
| and the Her Her De Int | Dedium' | ing Use Only: Custody Seal Intact? [] Yes [] No | Cooler Temp: Z_°C |
| Chain of Custody Number = Client Determined Choin of Custody Number = Client Determined QC Codes: N = Normal Sample, TB = Trip Blank, FD = Field Duplicate, EB = Equipment Blank, MS = M | ¹ or consistent and print and print of the second prediction of the second second state of a pacific of the second secon | Santyre Collection Time Zone: [] Eastern [] Pacific [] Central [] Mountain [] Other: de, MSD = Matrix Spike Duplicate Sample, G = Grab, C = Composite | |
| 3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered. 4.) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, WW=Water, M=Water, MI=Mise Linuid SO | sample was field filtered or - N - for sample was not field filtered. ace Water, WW=Waster Water, W=Water, ML=Misc Lionid, SD=Soil SD=Soil | 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=Suffice Water, WW=Water, WM=Water, ML=Mise Limid, SD=Soil S | |
| Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided 5) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascor | 5) Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B - 3, 6010B/7470A - 1). 5) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank | ous or oues, oor out waste, O=On, r=ritter, r=wipe, U=Orme, r=recat, N=Nasat 108/74704 - 1). ≈ Sodium Thiosulfate, If no preservative is added = leave field blank | |
| 1) Are there any known or possible hazards [Chan associated with these samples? FL = | Characteristic Hazards Listed Waste FL = Flammable/Ignitable LW= Listed Waste | | Please provide any additional details |
| CO = <u>RCRA Metals</u> <u>As = Ansenic Hg= Mercury</u> | CO = Corrosive (F, K, P and U-listed wastes.) RE = Reactive Waste code(s): | w p.H. asbestos, beryllium, irritants, other hazards, etc.) | octors regutants national unicor asposat concerns. (i.e.: Origin of sample(s), type of site collected from, odd matrices, etc.) |
| See Selenium m Ag= Silver | TSCA Regulated PCB = Polychimated | Description: | |
| n MR= Miscellaneous RCRA metals | biphenyls | | |

| | | DEVIEW FORM | - the |
|--|--|---|--|
| Laboratories LLC | SAMPLE RECE | IPT & REVIEW FORM | e Cet |
| Leng Land | SDG/AR/COC/Work Order | 150 | |
| Client: DAUC | Date Received: | Circle Applicable | es Couriet Other |
| Received By: TYE | Fed2 | x Express FedEx Ground UPS Field Service | |
| Received 53. | | | |
| | | • 13 | |
| Carrier and Tracking Number | | | for further investigation. |
| | | samples not marked "radioactive", contact the Radiation | Safety Group for Future |
| | 3 2 *If Net Counts > 100cpm of | samples not marked | |
| Suspected Hazard Information | Hazard Class Shipped: | UN#: s the Radioactive Shipment Survey Compliant? Yes1 | No |
| | Hazara Class onepr If UN2910, I | s the Radioactive Suprisition | |
| A)Shipped as a DOT Hazardous? | 1 diagetis | e stickers on containers equal client designation. | ED |
| A)Shipped as a Doce B) Did the client designate the samples are to be | COC notation or radioacut | Ama Background Counts): . | CPM/mR/Hr |
| B) Did the client designate are the received as radioactive? | Maximum Net Counts 9 | schweit* (Observed Counts - Area Background Counts): . Rad 1 Rad 2 Rad 3 | |
| C) Did the RSO classify the samples as | | | |
| C) Did the RSO classify no 1007 radioactive? | Coc contain or hazard I | abels on containers equal client designation. | |
| | is? | Bervilli | um Other: |
| D) Did the client designate samples are bazard | PCB's Flamm | Formign Soil RURA | |
| | | Comments/Qualifiers (Required for Non-C | Conforming Reads) |
| E) Did the RSO identify possible hazards? | S Z Z | Comments/Qualifiers (Required for Not Seals broken Damaged container Leaking container C | |
| Sample Receipt Criteria | Id Circle Application. | COC created upon | receipt |
| Shipping containers received intact | | Client contacted and provided | 0.0 |
| 1 sealed? Chain of custody documents includ | | None Uner. | TEMP: |
| 2 [with shipment? | Preservation Mic | the Wet Ice Ice Packs Divice area to recorded in Celsius | |
| 3 Samples requiring cold preservation | | | |
| 3 Samples requiring over $(0 \le 6 \deg. C)$?* | Temperature I | avice Senill #+11 states that | |
| Daily check performed and passes | on IR Secondary Tem | perature Device Serial # (If Applicatic). : Seals broken Damaged container Leaking container | Other (describe) |
| " temperature gun? | | : Seas oroxen | |
| 5 Sample containers intact and seal | | Contait.ers Affected: | and the second |
| Samples requiring chemical pres | dam la | Containers Attended moded, Louff: mores or Soil Kits present for Solids? Yes_LNONA to read contain acid preservation? YesNoNA | (If yes, take to VOAIFreezer) 1 |
| 5 at proper pil? | If Presenation | cores or Soil Kits present for Solids? res_ No_ NA_ | (If unknown, select No) |
| | Do liquid V | Aded, Lett: cores or Soil Kits present for Solids? Yes_LNONA A viale contain acid preservation? YesNONA A viale nee of headspace? YesNONA a viale nee of headspace? YesNONA | |
| Dc any samples require Vo | tile Are liquid Vo | ed containers affected: | <u>r 4 s s</u> |
| Analysis? | | | |
| | | s affected: | |
| 8 Samples received within holding | time? V | tainers affected: | |
| 8 Gamperson | A MARKET | | COC missing info Other (describe) |
| 9 Sample ID's on COC match II bottles? | son | licable: No dates on containers No times on containers | |
| Date & time on COC match o | e & time | Other (describe) | |
| 10 Ion bottles? | Circle Ap | slicable: No container count on COC Other (describe) | |
| - f containers receiv | match | | |
| | 1235 | | |
| Are sample containers ident | | oplicable: Not relinquished Other (describe) | 5 |
| 12 GEL provided by use of one | in Chele A | · • • | |
| | | | |
| Comments (Use Continuation For | t necdca): | | |
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| | | NRIF Date 31022 | Page of |
| | PM (or PMA) review: Initials | NRL- Date JIUJan | GL-CHL-SR-0 |
| | PM (or PMA) review: Initials _ | | GL-CHL-SH-U |

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| State | Certification | |
|-----------------------------------|------------------------------|--|
| Alabama | 42200 | |
| Alaska | 17-018 | |
| Alaska Drinking Water | SC00012 | |
| Arkansas | 88-0651 | |
| CLIA | 42D0904046 | |
| California | 2940 | |
| Colorado | SC00012 | |
| Connecticut | PH-0169 | |
| DoD ELAP/ ISO17025 A2LA | 2567.01 | |
| Florida NELAP | E87156 | |
| Foreign Soils Permit | P330-15-00283, P330-15-00253 | |
| Georgia | SC00012 | |
| Georgia SDWA | 967 | |
| Hawaii | SC00012 | |
| Idaho | SC00012 | |
| Illinois NELAP | 200029 | |
| Indiana | C-SC-01 | |
| Kansas NELAP | E-10332 | |
| Kentucky SDWA | 90129 | |
| Kentucky Wastewater | 90129 | |
| Louisiana Drinking Water | LA024 | |
| Louisiana NELAP | 03046 (AI33904) | |
| Maine | 2019020 | |
| Maryland | 270 | |
| Massachusetts | M–SC012 | |
| Massachusetts PFAS Approv | Letter | |
| Michigan | 9976 | |
| Mississippi | SC00012 | |
| Nebraska | NE-OS-26-13 | |
| Nevada | SC000122021-1 | |
| New Hampshire NELAP | 2054 | |
| New Jersey NELAP | SC002 | |
| New Mexico | SC00012 | |
| New York NELAP | 11501 | |
| North Carolina | 233 | |
| North Carolina SDWA | 45709 | |
| North Dakota | R-158 | |
| Oklahoma | 2019–165 | |
| Pennsylvania NELAP | 68-00485 | |
| Puerto Rico | SC00012 | |
| S. Carolina Radiochem | 10120002 | |
| Sanitation Districts of L | 9255651 | |
| South Carolina Chemistry | 10120001 | |
| Tennessee | TN 02934 | |
| Texas NELAP | T104704235-21-19 | |
| Utah NELAP | SC000122021–36 | |
| Vermont | VT87156 | |
| Virginia NELAP | 460202 | |
| Virginia NECA400202WashingtonC780 | | |
| Washington | C/80 | |

List of current GEL Certifications as of 22 March 2022