# FINAL ANALYTICAL REPORT FOR SOLID SAMPLES TAKEN FROM 271-T CAGE STORAGE AREA 2026, REV. 01

## Sample Group No.: 222S20250260

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**Date Published**
April 2, 2026

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# Table of Contents

1. Introduction ..... 1
1.1 Disclaimers ..... 1
2. Sample Receipt and Appearance Information ..... 2
3. Analytical Results Summary ..... 2
3.1 Holding Times ..... 3
3.2 Sample Digestions ..... 3
3.2.1 Water Digestion ..... 3
3.3 Inorganic Analyses ..... 3
3.3.1 Ion Chromatography ..... 3
4. Procedures ..... 4
5. References ..... 4
6. Appendices ..... v
Appendix A Data Summary Report ..... A-1
Appendix B Sample Receipt Documentation ..... B-1
Appendix C Sample Breakdown Diagrams ..... C-1
Appendix D Analysis Date and Holding Time Report ..... D-1
Appendix E Correspondence ..... E-1
Appendix F Sampling Authorization Form ..... F-1
Appendix G Problem and Discrepancy Report ..... G-1

## LIST OF TABLES

Table 1. Sample Receipt and Appearance Information ..... 2

Table 2. Analytical Procedures ..... 4

# LIST OF TERMS

## Acronyms and Abbreviations

| | |
|---|---|
| DL | detection limit |
| GC/MS | gas chromatography mass spectrometry |
| HEIS | Hanford Environmental Information System |
| IC | ion chromatography |
| IDL | instrument detection limit |
| LCS | laboratory control sample |
| LIMS | Laboratory Information Management System |
| MDA | minimum detectable activity |
| MDC | minimum detectable concentration |
| MDL | method detection limit |
| MS | matrix spike |
| MSD | matrix spike duplicate |
| PDS | post-detection spike |
| PQL | program quantitation limit |
| QC | quality control |
| RDL | required detection limit |
| RPD | relative percent difference |
| SAF | Sampling Authorization Form |

## Units

| | |
|---|---|
| g | gram |
| µg/g | micrograms per gram |
| mL | milliliter |
| % | percent |

# 222-S LABORATORY

Final Analytical Report for Solid Samples Taken from 271-T Cage Storage Area 2026

## 1. INTRODUCTION

This report has been revised in response to the Problem and Discrepancy Report in Appendix G, Problem and Discrepancy Report. This report presents the final results for the 271-T Cage Storage Area solid samples taken on February 11, 2026. The samples were analyzed in accordance with Central Plateau Cleanup Company Sampling Authorization Form (SAF) F25-035, *271-T Cage Storage Area – Soil Samples – RCRA Closure* (see Appendix F, Sampling Authorization Form); HLMI-PLN-ASYS-50094, *222-S Laboratory Quality Assurance Program Plan*; SW-846, *Test Methods for Evaluating Solid Waste: Physical/Chemical Methods*; and the additional guidance given in verbal and electronic communications, which can be found in Appendix E, Correspondence.

The following appendices are included in this report:

| | |
|---|---|
| Appendix A | Data Summary Report |
| Appendix B | Sample Receipt Documentation |
| Appendix C | Sample Breakdown Diagrams |
| Appendix D | Analysis Date and Holding Time Report |
| Appendix E | Correspondence |
| Appendix F | Sampling Authorization Form |
| Appendix G | Problem and Discrepancy Report |

### 1.1 DISCLAIMERS

- The information contained in this report is intended only for the use of the authorized customer or Department of Energy staff. This report is considered proprietary and is not intended for further dissemination unless released for public use (International Standard for Testing 17025, *General Requirements for the Competence of Testing and Calibration Laboratories*).
- Requirements or anomalies concerning field sampling are not addressed in this report.
- Analytical results apply to the samples as received unless otherwise noted in the analytical results summary (e.g., dry weight results).
- The results shown in this report pertain only to the actual samples tested.
- Sample results have not been corrected based on any blank results.
- These results conform to the requirements specified in the referenced methods/procedures and specifications provided verbally or electronically by the customer. Any deviations or modifications are discussed in the following narrative.
- This report may not be reproduced, except in its entirety, without the written approval of Navarro-ATL or the customer.

## 2. SAMPLE RECEIPT AND APPEARANCE INFORMATION

Seven solid samples were collected from the 271-T Cage Storage Area on February 11, 2026. The 222-S Laboratory received the samples on February 11, 2026. Sampling and receipt dates and descriptions of the samples are presented in Table 1. The data on the chain of custody forms were verified. The samples were observed for appearance and transferred to a refrigerator for storage after the completion of sample receipt.

Sample receipt logs can be found in Appendix B, Sample Receipt Documentation. Sample Breakdown Diagrams can be found in Appendix C, Sample Breakdown Diagrams.

**Table 1. Sample Receipt and Appearance Information**

| Sample Identification | Date/Time Sampled | Date/Time Receipt | Sample Weight (g) | Sample Demographics |
|---|---|---|---|---|
| B4NT12 (S25M000481) | 02/11/2026 09:30 | 02/11/2026 12:37 | 94.140 | Received approximately 60 mL of dark brown soil material in an amber glass bottle. |
| B4NT14 (S25M000482) | 02/11/2026 09:30 | 02/11/2026 12:37 | 98.148 | Received approximately 60 mL of dark brown soil material in an amber glass bottle. |
| B4NT16 (S25M000483) | 02/11/2026 10:20 | 02/11/2026 12:37 | 103.443 | Received approximately 60 mL of dark brown soil material in an amber glass bottle. |
| B4NT18 (S25M000484) | 02/11/2026 11:00 | 02/11/2026 12:37 | 83.292 | Received approximately 60 mL of dark brown soil material in an amber glass bottle. |
| B4NT20 (S25M000493) | 02/11/2026 11:20 | 02/11/2026 12:37 | 81.101 | Received approximately 60 mL of dark brown soil material in an amber glass bottle. |
| B4NT22 (S25M000494) | 02/11/2026 11:20 | 02/11/2026 12:37 | 95.055 | Received approximately 60 mL of light brown silica material in an amber glass bottle. |
| B4NT31 (S25M000497) | 02/11/2026 09:00 | 02/11/2026 12:37 | 83.241 | Received approximately 60 mL of light brown silica material in an amber glass bottle. |

## 3. ANALYTICAL RESULTS SUMMARY

Most SW-846 test methods performed at the 222-S Laboratory contain deviations that are listed in the analytical procedures.

In Appendix A, Data Summary Report, the column labeled as “A#” indicates the aliquot class or the method used for sample preparation before analysis. “W” indicates samples were prepared by a water digest/leach.

Sample qualifiers were applied as directed in HLMI-PRO-LQ-51283, *Flagging Data in Laboratory Information Management System.*

## 3.1 HOLDING TIMES

The laboratory is expected to meet the holding times for sample preparation and analysis specified in HLMI-PLN-ASYS-50094.

Analysis dates and holding times for all samples are presented in Appendix D, Analysis Date and Holding Time Report.

## 3.2 SAMPLE DIGESTIONS

The SAF did not define which preparatory method was to be used for analysis, therefore the laboratory utilized the most appropriate method.

### 3.2.1 Water Digestion

A water digestion or leach was performed for anions by ion chromatography (IC). Samples S25M000499 and S25M000502 were observed to be pink to white in coloring, with different-sized granular particles. All other samples were uniform, darkly colored dirt. The samples were cloudy after leaching and translucent after filtration.

## 3.3 INORGANIC ANALYSES

All analyses were performed on samples as directed by the SAF.

### 3.3.1 Ion Chromatography

#### 3.3.1.1 Anions and Small Organic Acids

The IC analysis for formate was performed as requested on all samples. An aliquot of the water digested sample was analyzed. The matrix spike (MS) and sample duplicate were run on a sample that was not a part of this project. The MS and sample duplicate were run on a sample from the 277-T Outdoor Storage Area project in the sample delivery group number 20260045. The MS percent recovery met the quality control criteria range of 75%–125% at 106%. The duplicate relative percent difference is not calculated, as the duplicate results and sample results are less than the detection limit (DL).

Samples were analyzed for formate within the hold time. Formate was not detected above the DL in any of the samples; therefore, the results for these analytes were “U” flagged in the corresponding samples. There is no required detection limit (RDL) defined in the SAF.

## 4. PROCEDURES

**Table 2. Analytical Procedures**

| Analysis | Preparation Method | Analysis Procedure |
|---|---|---|
| **Inorganic Analyses** | | |
| Sample Physical Descriptions | Direct | LA-519-151 |
| Density – Hot Cell | Direct | LA-510-112 |
| IC – Anions and Small Organic Acids | Direct | LA-533-166 |

## 5. REFERENCES

HLMI-PLN-ASYS-50094, *222-S Laboratory Quality Assurance Program Plan*, Revision 1-8, Navarro-ATL, Richland, Washington.

HLMI-PRO-LQ-51283, *Flagging Data in Laboratory Information Management System,* Rev. 0-2, Navarro-ATL, Richland, Washington.

SAF F25-035, Rev. 0, 2025, *271-T Cage Storage Area – Soil Samples – RCRA Closure*, Central Plateau Cleanup Company, Richland, Washington

SW-846, 1986, *Test Methods for Evaluating Solid Waste: Physical/Chemical Methods,* Third Edition, as amended, U.S. Environmental Protection Agency, Washington, D.C.

# 6. APPENDICES

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**Appendix A**

**Data Summary Report**

(9 pages, including cover sheet)

03 - Mar - 2026 8:22:13
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DSR.Jar v. 3.2.0a



**271-T Cage Storage Area**
**Data Summary Report**

**Sample Group: 20250260**
**Project Coordinator: Sutey, Emily**
**Customer Sample ID: B4NT12**
**Customer Sample ID: B4NT12**

| Sample# | A# | CAS # | Analyte | Unit | STD % | Blank | Result | Duplicate | Average | RPD % | Spk Rec % | Det Limit | Cnt Err % | Qual Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Anions and Small Organic Acids | | | | | | | | | | | | | | |
| S25M000489 | W | 12311-97-6 | Formate | ug/g | 102 | <0.660 | <0.648 | n/a | n/a | n/a | n/a | 0.648 | n/a | U |

NA = Not Analyzed, ND = Not Detected

**271-T Cage Storage Area**
**Data Summary Report**

**Sample Group: 20250260**
**Project Coordinator: Sutey, Emily**
**Customer Sample ID: B4NT14**
**Customer Sample ID: B4NT14**

| Sample# | A# | CAS # | Analyte | Unit | STD % | Blank | Result | Duplicate | Average | RPD % | Spk Rec % | Det Limit | Cnt Err % | Qual Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Anions and Small Organic Acids | | | | | | | | | | | | | | |
| S25M000490 | W | 12311-97-6 | Formate | ug/g | 102 | <0.660 | <0.657 | n/a | n/a | n/a | n/a | 0.657 | n/a | U |

NA = Not Analyzed, ND = Not Detected

**271-T Cage Storage Area**
**Data Summary Report**

**Sample Group: 20250260**
**Project Coordinator: Sutey, Emily**
**Customer Sample ID: B4NT16**
**Customer Sample ID: B4NT16**

| Sample# | A# | CAS # | Analyte | Unit | STD % | Blank | Result | Duplicate | Average | RPD % | Spk Rec % | Det Limit | Cnt Err % | Qual Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Anions and Small Organic Acids | | | | | | | | | | | | | | |
| S25M000491 | W | 12311-97-6 | Formate | ug/g | 102 | <0.660 | <0.659 | n/a | n/a | n/a | n/a | 0.659 | n/a | U |

NA = Not Analyzed, ND = Not Detected

**271-T Cage Storage Area**
**Data Summary Report**

**Sample Group: 20250260**
**Project Coordinator: Sutey, Emily**
**Customer Sample ID: B4NT18**
**Customer Sample ID: B4NT18**

| Sample# | A# | CAS # | Analyte | Unit | STD % | Blank | Result | Duplicate | Average | RPD % | Spk Rec % | Det Limit | Cnt Err % | Qual Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Anions and Small Organic Acids | | | | | | | | | | | | | | |
| S25M000492 | W | 12311-97-6 | Formate | ug/g | 102 | <0.660 | <0.652 | n/a | n/a | n/a | n/a | 0.652 | n/a | U |

NA = Not Analyzed, ND = Not Detected

**271-T Cage Storage Area**
**Data Summary Report**

**Sample Group: 20250260**
**Project Coordinator: Sutey, Emily**
**Customer Sample ID: B4NT20**
**Customer Sample ID: B4NT20**

| Sample# | A# | CAS # | Analyte | Unit | STD % | Blank | Result | Duplicate | Average | RPD % | Spk Rec % | Det Limit | Cnt Err % | Qual Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Anions and Small Organic Acids | | | | | | | | | | | | | | |
| S25M000503 | W | 12311-97-6 | Formate | ug/g | 102 | <0.660 | <0.653 | n/a | n/a | n/a | n/a | 0.653 | n/a | U |

NA = Not Analyzed, ND = Not Detected

**271-T Cage Storage Area**
**Data Summary Report**

**Sample Group: 20250260**
**Project Coordinator: Sutey, Emily**
**Customer Sample ID: B4NT22**
**Customer Sample ID: B4NT22**

| Sample# | A# | CAS # | Analyte | Unit | STD % | Blank | Result | Duplicate | Average | RPD % | Spk Rec % | Det Limit | Cnt Err % | Qual Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Anions and Small Organic Acids | | | | | | | | | | | | | | |
| S25M000504 | W | 12311-97-6 | Formate | ug/g | 102 | <0.660 | <0.658 | n/a | n/a | n/a | n/a | 0.658 | n/a | U |

NA = Not Analyzed, ND = Not Detected

**271-T Cage Storage Area**
**Data Summary Report**

**Sample Group: 20250260**
**Project Coordinator: Sutey, Emily**
**Customer Sample ID: B4NT31**
**Customer Sample ID: B4NT31**

| Sample# | A# | CAS # | Analyte | Unit | STD % | Blank | Result | Duplicate | Average | RPD % | Spk Rec % | Det Limit | Cnt Err % | Qual Flags |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Anions and Small Organic Acids | | | | | | | | | | | | | | |
| S25M000507 | W | 12311-97-6 | Formate | ug/g | 102 | <0.660 | <0.655 | n/a | n/a | n/a | n/a | 0.655 | n/a | U |

NA = Not Analyzed, ND = Not Detected

**271-T Cage Storage Area**
**Data Summary Report**

**Data Qualifier Description**

| QUALIFIER | DESCRIPTION |
|---|---|
| U | Less Than Detection Limit |

NA = Not Analyzed, ND = Not Detected

**Appendix B**

**Sample Receipt Documentation**

(11 pages, including cover sheet)

# SAMPLE RECEIPT AND CHAIN OF CUSTODY VERIFICATION CHECKLIST - 222-S

Thermometer No.: 250352730 Cal Due Date: 06/04/2027 HLMI-PRO-LO-50131 REV: 1-0

Date Samples Received: 2-11-26 Total Number of Samples: 7 Group No.: 20250260

Sample Custodian: Brandon Peterson Delivered by Name: Anthony Vegas

**Sample Custodian to Complete**

| Action | Yes | No | N/A | Comments |
|---|---|---|---|---|
| RSR provided? | ○ | ○ | ✓ | |
| Verify GKI is complete | ✓ | ○ | ○ | ☒ In Project File |
| Received from an alpha facility? | ○ | | ✓ | ☐ Contact PC for approval to release |
| Check that outer custody seal is intact, if present | ✓ | ○ | ○ | |
| Record cooler temperature if needed | ○ | ○ | ✓ | ☒ Check if no cooler and/or no ice ____ °C Temperature |
| Samples are intact and in good condition | ✓ | ○ | ○ | If No, provide comments below. |
| RSA/COC provided and complete containing the following information? | | | | |
| • Client name and client sample number | ✓ | ○ | ○ | |
| • Date and time of sampling | ✓ | ○ | ○ | |
| • Sampling location or origin | ✓ | ○ | ○ | |
| • Container type, size, and number | ✓ | ○ | ○ | |
| • Preservatives *(if used)* noted on the COC/RSA and sample bottles | ○ | ○ | ✓ | |
| • Analysis request is clear or referred | ✓ | ○ | ○ | ☒ In Project File |
| • Signature of person(s) relinquishing and receiving samples | ✓ | ○ | ○ | |
| • Date and/or time of sample custody exchange | ✓ | ○ | ○ | |
| Verify that sample numbers on containers match the COC and/or RSA | ✓ | ○ | ○ | |
| Samples stored properly *(e.g., refrigeration)* | ○ | ○ | ✓ | |

Notify the PC immediately if any problems are noted. Any "No" checked boxes require PC resolution.

Samples acceptable for release? ✓ Yes ○ No SC Initials: BP Date: 2-11-26

If No, comment on communication and resolution:

Sample Type Received:

7 271-T Cage CPC Co. Samples

| Central Plateau Cleanup Company | CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST | | | F25-035-001 | PAGE 1 OF 1 |
|---|---|---|---|---|---|
| **COLLECTOR** Anthony Noggles / CPCC | **COMPANY CONTACT** SUMNER, LC | **TELEPHONE NO.** 376-3922 | **PROJECT COORDINATOR** SUMNER, LC | **REQUIRED TAT** 30 Days | |
| **SAMPLING LOCATION** 271-T Cage FS-1 | **PROJECT DESIGNATION** 271-T Cage Storage Area - Soil Samples - RCRA Closure | | **SAF NO.** F25-035 | **ORIGINAL** | |
| **ICE CHEST NO.** N/A | **FIELD LOGBOOK NO.** HNF-N-50742 | **ACTUAL SAMPLE DEPTH** 0"-6" | **PURCHASE ORDER/CHARGE CODE** 901635 | **METHOD OF SHIPMENT** GOVERNMENT VEHICLE | |
| **SHIPPED TO** 222-S Lab Operations | **OFFSITE PROPERTY NO.** N/A | | **BILL OF LADING/AIR BILL NO.** N/A | | |

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

**POSSIBLE SAMPLE HAZARDS/ REMARKS**
*Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CFR/IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1.

**SPECIAL HANDLING AND/OR STORAGE**
N/A

| | |
|---|---|
| **PRESERVATION** | Cool <=6C |
| **HOLDING TIME** | 28 Days/48 Hours |
| **TYPE OF CONTAINER** | G/P |
| **NO. OF CONTAINER(S)** | 1 |
| **VOLUME** | 60mL |
| **SAMPLE ANALYSIS** | 9056_ANIONS_IC: COMMON (Add-on) {Formate}; |

| SAMPLE NO. | FILTERED | MATRIX* | SAMPLE DATE | SAMPLE TIME | |
|---|---|---|---|---|---|
| B4NT12 | N/A | SOIL | FEB 11 2026 | 0930 | ✓ |

| CHAIN OF POSSESSION RELINQUISHED BY/REMOVED FROM | DATE/TIME | SIGN/ PRINT NAMES RECEIVED BY/STORED IN | DATE/TIME | SPECIAL INSTRUCTIONS |
|---|---|---|---|---|
| Anthony Noggles / CPCC | FEB 11 2026 1237 | Brandon Peterson | FEB 11 2026 1237 | TRVL-25-088 Tare Weight: 89.48 |

| FINAL SAMPLE DISPOSITION | DISPOSAL METHOD | DISPOSED BY | DATE/TIME |
|---|---|---|---|

PRINTED ON 7/14/2025 FSR ID = FSR160335 TRVL NUM = TRVL-25-088 Format: (2/29/2024)

| Central Plateau Cleanup Company | CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST | | F25-035-003 | PAGE 1 OF 1 |
|---|---|---|---|---|
| **COLLECTOR** Anthony Noggles / CPCC | **COMPANY CONTACT** SUMNER, LC | **TELEPHONE NO.** 376-3922 | **PROJECT COORDINATOR** SUMNER, LC | **REQUIRED TAT** 30 Days |
| **SAMPLING LOCATION** 271-T Cage FS-1 DUP | **PROJECT DESIGNATION** 271-T Cage Storage Area - Soil Samples - RCRA Closure | | **SAF NO.** F25-035 | ORIGINAL |
| **ICE CHEST NO.** N/A | **FIELD LOGBOOK NO.** HNF-N- 50742 | **ACTUAL SAMPLE DEPTH** 0"-6" | **PURCHASE ORDER/CHARGE CODE** 901635 | **METHOD OF SHIPMENT** GOVERNMENT VEHICLE |
| **SHIPPED TO** 222-S Lab Operations | **OFFSITE PROPERTY NO.** N/A | | **BILL OF LADING/AIR BILL NO.** N/A | |

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

**POSSIBLE SAMPLE HAZARDS/ REMARKS**
*Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CFR/IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1.

**SPECIAL HANDLING AND/OR STORAGE**
N/A

| | |
|---|---|
| **PRESERVATION** | Cool <=6C |
| **HOLDING TIME** | 28 Days/48 Hours |
| **TYPE OF CONTAINER** | G/P |
| **NO. OF CONTAINER(S)** | 1 |
| **VOLUME** | 60mL |
| **SAMPLE ANALYSIS** | 9056_ANIONS_IC: COMMON (Add-on) {Formate}; |

| SAMPLE NO. | FILTERED | MATRIX* | SAMPLE DATE | SAMPLE TIME | |
|---|---|---|---|---|---|
| B4NT14 | N/A | SOIL | FEB 11 2026 | 0930 | ✓ |

| CHAIN OF POSSESSION RELINQUISHED BY/REMOVED FROM | DATE/TIME | SIGN/ PRINT NAMES RECEIVED BY/STORED IN | DATE/TIME |
|---|---|---|---|
| Anthony Noggles / CPCC | FEB 11 2026 1237 | Brandi Peters | FEB 11 2026 1237 |

**SPECIAL INSTRUCTIONS**
TRVL-25-088

Tare Weight: 89.68

| FINAL SAMPLE DISPOSITION | DISPOSAL METHOD | DISPOSED BY | DATE/TIME |
|---|---|---|---|

PRINTED ON 7/14/2025 FSR ID = FSR160336 TRVL NUM = TRVL-25-088 Format: (2/29/2024)

| Central Plateau Cleanup Company | CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST | | | F25-035-005 | PAGE 1 OF 1 |
|---|---|---|---|---|---|
| **COLLECTOR** Anthony Noggles / CPCC | **COMPANY CONTACT** SUMNER, LC | **TELEPHONE NO.** 376-3922 | **PROJECT COORDINATOR** SUMNER, LC | | **REQUIRED TAT** 30 Days |
| **SAMPLING LOCATION** 271-T Cage FS-2 | **PROJECT DESIGNATION** 271-T Cage Storage Area - Soil Samples - RCRA Closure | | **SAF NO.** F25-035 | **ORIGINAL** | |
| **ICE CHEST NO.** N/A | **FIELD LOGBOOK NO.** HNF-N-507 42 | **ACTUAL SAMPLE DEPTH** 0"-6" | **PURCHASE ORDER/CHARGE CODE** 901635 | **METHOD OF SHIPMENT** GOVERNMENT VEHICLE | |
| **SHIPPED TO** 222-S Lab Operations | **OFFSITE PROPERTY NO.** N/A | | **BILL OF LADING/AIR BILL NO.** N/A | | |

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

**POSSIBLE SAMPLE HAZARDS/ REMARKS**
*Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CFR/IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1.

**SPECIAL HANDLING AND/OR STORAGE**
N/A

| | |
|---|---|
| **PRESERVATION** | Cool <=6C |
| **HOLDING TIME** | 28 Days/48 Hours |
| **TYPE OF CONTAINER** | G/P |
| **NO. OF CONTAINER(S)** | 1 |
| **VOLUME** | 60mL |
| **SAMPLE ANALYSIS** | 9056_ANIONS_I C: COMMON (Add-on) {Formate}; |

| SAMPLE NO. | FILTERED | MATRIX* | SAMPLE DATE | SAMPLE TIME | |
|---|---|---|---|---|---|
| B4NT16 | N/A | SOIL | FEB 11 2026 | 1020 | ✓ |

| CHAIN OF POSSESSION RELINQUISHED BY/REMOVED FROM | DATE/TIME | SIGN/ PRINT NAMES RECEIVED BY/STORED IN | DATE/TIME |
|---|---|---|---|
| Anthony Noggles / CPCC | 1237 FEB 11 2026 | Brandon Peterson | 1237 FEB 11 2026 |

**SPECIAL INSTRUCTIONS**
TRVL-25-088

Tare Weight: 89.60

| FINAL SAMPLE DISPOSITION | DISPOSAL METHOD | DISPOSED BY | DATE/TIME |
|---|---|---|---|

**PRINTED ON 7/14/2025** **FSR ID = FSR160338** **TRVL NUM = TRVL-25-088** Format: (2/29/2024)

| Central Plateau Cleanup Company | CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST | | | F25-035-007 | PAGE 1 OF 1 |
|---|---|---|---|---|---|
| **COLLECTOR** Anthony Noggles / CPCC | **COMPANY CONTACT** SUMNER, LC | **TELEPHONE NO.** 376-3922 | **PROJECT COORDINATOR** SUMNER, LC | **REQUIRED TAT** 30 Days | |
| **SAMPLING LOCATION** 271-T Cage FS-3 | **PROJECT DESIGNATION** 271-T Cage Storage Area - Soil Samples - RCRA Closure | | **SAF NO.** F25-035 | **ORIGINAL** | |
| **ICE CHEST NO.** N/A | **FIELD LOGBOOK NO.** HNF-N-507 42 | **ACTUAL SAMPLE DEPTH** 0"-6" | **PURCHASE ORDER/CHARGE CODE** 901635 | **METHOD OF SHIPMENT** GOVERNMENT VEHICLE | |
| **SHIPPED TO** 222-S Lab Operations | **OFFSITE PROPERTY NO.** N/A | | **BILL OF LADING/AIR BILL NO.** N/A | | |

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

**POSSIBLE SAMPLE HAZARDS/ REMARKS**
*Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CFR/IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1.

**SPECIAL HANDLING AND/OR STORAGE**
N/A

| | |
|---|---|
| **PRESERVATION** | Cool <=6C |
| **HOLDING TIME** | 28 Days/48 Hours |
| **TYPE OF CONTAINER** | G/P |
| **NO. OF CONTAINER(S)** | 1 |
| **VOLUME** | 60mL |
| **SAMPLE ANALYSIS** | 9056_ANIONS_IC: COMMON (Add-on) {Formate}; |

| SAMPLE NO. | FILTERED | MATRIX* | SAMPLE DATE | SAMPLE TIME | |
|---|---|---|---|---|---|
| B4NT18 | N/A | SOIL | FEB 11 2026 | 1100 | ✓ |

**CHAIN OF POSSESSION**

| RELINQUISHED BY/REMOVED FROM | DATE/TIME | RECEIVED BY/STORED IN | DATE/TIME |
|---|---|---|---|
| Anthony Noggles / CPCC | FEB 11 2026 1237 | Brandon Peters | FEB 11 2026 1237 |

**SPECIAL INSTRUCTIONS**
TRVL-25-088

Tare Weight: 89.89

| FINAL SAMPLE DISPOSITION | DISPOSAL METHOD | DISPOSED BY | DATE/TIME |
|---|---|---|---|

PRINTED ON 7/14/2025 FSR ID = FSR160339 TRVL NUM = TRVL-25-088 Format: (2/29/2024)

| Central Plateau Cleanup Company | CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST | | | F25-035-009 | PAGE 1 OF 1 |
|---|---|---|---|---|---|
| **COLLECTOR** Anthony Noggles / CPCC | **COMPANY CONTACT** SUMNER, LC | **TELEPHONE NO.** 376-3922 | **PROJECT COORDINATOR** SUMNER, LC | **REQUIRED TAT** 30 Days | |
| **SAMPLING LOCATION** 271-T Cage FS-4 | **PROJECT DESIGNATION** 271-T Cage Storage Area - Soil Samples - RCRA Closure | | **SAF NO.** F25-035 | **ORIGINAL** | |
| **ICE CHEST NO.** N/A | **FIELD LOGBOOK NO.** HNF-N-507 42 | **ACTUAL SAMPLE DEPTH** 0"-6" | **PURCHASE ORDER/CHARGE CODE** 901635 | **METHOD OF SHIPMENT** GOVERNMENT VEHICLE | |
| **SHIPPED TO** 222-S Lab Operations | **OFFSITE PROPERTY NO.** N/A | | **BILL OF LADING/AIR BILL NO.** N/A | | |

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

**POSSIBLE SAMPLE HAZARDS/ REMARKS**
*Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CFR/IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1.

**SPECIAL HANDLING AND/OR STORAGE**
N/A

| | |
|---|---|
| **PRESERVATION** | Cool <=6C |
| **HOLDING TIME** | 28 Days/48 Hours |
| **TYPE OF CONTAINER** | G/P |
| **NO. OF CONTAINER(S)** | 1 |
| **VOLUME** | 60mL |
| **SAMPLE ANALYSIS** | 9056_ANIONS_IC: COMMON (Add-on) {Formate}; |

| SAMPLE NO. | FILTERED | MATRIX* | SAMPLE DATE | SAMPLE TIME | |
|---|---|---|---|---|---|
| B4NT20 | N/A | SOIL | FEB 11 2026 | 1120 | ✓ |

| CHAIN OF POSSESSION RELINQUISHED BY/REMOVED FROM | DATE/TIME | SIGN/ PRINT NAMES RECEIVED BY/STORED IN | DATE/TIME |
|---|---|---|---|
| Anthony Noggles / CPCC | 1237 FEB 11 2026 | Brandi Peterson | 1237 1237 FEB 11 2026 |

**SPECIAL INSTRUCTIONS**
TRVL-25-088

Tare weight 88-19

| FINAL SAMPLE DISPOSITION | DISPOSAL METHOD | DISPOSED BY | DATE/TIME |
|---|---|---|---|

**PRINTED ON 7/14/2025** **FSR ID = FSR160340** **TRVL NUM = TRVL-25-088** Format: (2/29/2024)

| Central Plateau Cleanup Company | CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST | | | F25-035-011 | PAGE 1 OF 1 |
|---|---|---|---|---|---|
| **COLLECTOR** Anthony Noggles / CPCC | **COMPANY CONTACT** SUMNER, LC | **TELEPHONE NO.** 376-3922 | **PROJECT COORDINATOR** SUMNER, LC | | **REQUIRED TAT** 30 Days |
| **SAMPLING LOCATION** 271-T Cage FS-4 FTB | **PROJECT DESIGNATION** 271-T Cage Storage Area - Soil Samples - RCRA Closure | | **SAF NO.** F25-035 | **ORIGINAL** | |
| **ICE CHEST NO.** N/A | **FIELD LOGBOOK NO.** HNF-N-507 42 | **ACTUAL SAMPLE DEPTH** 0"-6" | **PURCHASE ORDER/CHARGE CODE** 901635 | **METHOD OF SHIPMENT** GOVERNMENT VEHICLE | |
| **SHIPPED TO** 222-S Lab Operations | **OFFSITE PROPERTY NO.** N/A | | **BILL OF LADING/AIR BILL NO.** N/A | | |

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

**POSSIBLE SAMPLE HAZARDS/ REMARKS**
*Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CFR/IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1.

**SPECIAL HANDLING AND/OR STORAGE**
N/A

| | |
|---|---|
| **PRESERVATION** | Cool <=6C |
| **HOLDING TIME** | 28 Days/48 Hours |
| **TYPE OF CONTAINER** | G/P |
| **NO. OF CONTAINER(S)** | 1 |
| **VOLUME** | 60mL |
| **SAMPLE ANALYSIS** | 9056_ANIONS_IC: COMMON (Add-on) {Formate}; |

| SAMPLE NO. | FILTERED | MATRIX* | SAMPLE DATE | SAMPLE TIME | |
|---|---|---|---|---|---|
| B4NT22 | N/A | SOIL | FEB 11 2026 | 1120 | ✓ |

| CHAIN OF POSSESSION RELINQUISHED BY/REMOVED FROM | DATE/TIME | SIGN/ PRINT NAMES RECEIVED BY/STORED IN | DATE/TIME |
|---|---|---|---|
| Anthony Noggles / CPCC | 1237 FEB 11 2026 | Brandon Peterson | 1237 1237 FEB 11 2026 |

**SPECIAL INSTRUCTIONS**
TRVL-25-088

Tare Weight: 89.22

| FINAL SAMPLE DISPOSITION | DISPOSAL METHOD | DISPOSED BY | DATE/TIME |
|---|---|---|---|

**PRINTED ON** 7/14/2025 **FSR ID = FSR160341** **TRVL NUM = TRVL-25-088** Format: (2/29/2024)

| Central Plateau Cleanup Company | CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST | | | F25-035-020 | PAGE 1 OF 1 |
|---|---|---|---|---|---|
| **COLLECTOR** Anthony Noggles / CPCC | **COMPANY CONTACT** SUMNER, LC | **TELEPHONE NO.** 376-3922 | **PROJECT COORDINATOR** SUMNER, LC | | **REQUIRED TAT** 30 Days |
| **SAMPLING LOCATION** 271-T Cage EBL CONT | **PROJECT DESIGNATION** 271-T Cage Storage Area - Soil Samples - RCRA Closure | | **SAF NO.** F25-035 | **ORIGINAL** | |
| **ICE CHEST NO.** N/A | **FIELD LOGBOOK NO.** HNF-N-50742 | **ACTUAL SAMPLE DEPTH** 0"-6" | **PURCHASE ORDER/CHARGE CODE** 901635 | **METHOD OF SHIPMENT** GOVERNMENT VEHICLE | |
| **SHIPPED TO** 222-S Lab Operations | **OFFSITE PROPERTY NO.** N/A | | **BILL OF LADING/AIR BILL NO.** N/A | | |

MATRIX*
A=Air
DL=Drum Liquids
DS=Drum Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

**POSSIBLE SAMPLE HAZARDS/ REMARKS**
*Contains Radioactive Material at concentrations that are not be regulated for transportation per 49 CFR/IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1.

**SPECIAL HANDLING AND/OR STORAGE**
N/A

| | |
|---|---|
| **PRESERVATION** | Cool <=6C |
| **HOLDING TIME** | 28 Days/48 Hours |
| **TYPE OF CONTAINER** | G/P |
| **NO. OF CONTAINER(S)** | 1 |
| **VOLUME** | 60mL |
| **SAMPLE ANALYSIS** | 9056_ANIONS_IC: COMMON (Add-on) {Formate}; |

| SAMPLE NO. | FILTERED | MATRIX* | SAMPLE DATE | SAMPLE TIME | |
|---|---|---|---|---|---|
| B4NT31 | N/A | SOIL | FEB 11 2026 | 0900 | ✓ |

| CHAIN OF POSSESSION<br>RELINQUISHED BY/REMOVED FROM | DATE/TIME | SIGN/ PRINT NAMES<br>RECEIVED BY/STORED IN | DATE/TIME | SPECIAL INSTRUCTIONS |
|---|---|---|---|---|
| Anthony Noggles / CPCC | FEB 11 2026 1237 | Brandon Peterson | FEB 11 2026 1237 | TRVL-25-088<br>Tare Weight: 89.74 |

| FINAL SAMPLE DISPOSITION | DISPOSAL METHOD | DISPOSED BY | DATE/TIME |
|---|---|---|---|

PRINTED ON 7/14/2025 **FSR ID = FSR160337** **TRVL NUM = TRVL-25-088** Format: (2/29/2024)

# GENERATOR KNOWLEDGE INFORMATION

| 1. Chain of Custody Number: | CACN/COA: 901635/JCPC | Customer Identification Number: |
|---|---|---|

2. List generator knowledge or description of process that produced sample. Or list description of sample source:
Soil sampling to support RCRA clean closure for the 271-T Cage.

MSDS Available? ☐ Yes ☒ No Hanford MSDS Number: _____

3. List all waste codes and constituents associated with the waste or media that was sampled, regardless of CERCLA status
a) Does the sample contain any of the following listed waste codes?
***By checking "unknown" the customer understands that no knowledge is available following a careful search.***

| Waste Codes | List Constituent(s) | | Chemical Abstract Service Number | Yes | No | Un-known |
|---|---|---|---|---|---|---|
| P Codes: | 022 | Carbon disulfide | 75-15-0 | ☒ | ☐ | ☐ |
| P Codes: | 023 | Chloroacetaldehyde | 107-20-0 | ☒ | ☐ | ☐ |
| P Codes: | 030 | Total cyanides | 57-12-5 | ☒ | ☐ | ☐ |
| P Codes: | 120 | Vanadium pentoxide | 1314-62-1 | ☒ | ☐ | ☐ |
| U Codes: | 001 | Acetaldehyde | 75-07-0 | ☒ | ☐ | ☐ |
| U Codes: | 006 | Acetyl chloride | 75-36-5 | ☒ | ☐ | ☐ |
| U Codes: | 025 | bis (2-chloroethyl) ether (dichloroethyl ether) | 111-44-4 | ☒ | ☐ | ☐ |
| U Codes: | 031 | n-butyl alcohol | 71-36-3 | ☒ | ☐ | ☐ |
| U Codes: | 057 | Cyclohexanone | 108-94-1 | ☒ | ☐ | ☐ |
| U Codes: | 108 | 1,4-Dioxane | 123-91-1 | ☒ | ☐ | ☐ |
| U Codes: | 117 | Diethyl ether | 60-29-7 | ☒ | ☐ | ☐ |
| U Codes: | 123 | Formic acid | 64-18-6 | ☒ | ☐ | ☐ |
| U Codes: | 161 | Methyl isobutyl ketone | 108-10-1 | ☒ | ☐ | ☐ |
| U Codes: | 213 | Tetrahydrofuran | 109-99-9 | ☒ | ☐ | ☐ |
| U Codes: | 226 | 1,1,1-Trichloroethane | 71-55-6 | ☒ | ☐ | ☐ |
| U Codes: | 359 | 2-Ethoxyethanol | 110-80-5 | ☒ | ☐ | ☐ |
| K Codes: | | | | ☐ | ☒ | ☐ |
| F Codes | | | | ☐ | ☒ | ☐ |

* Individual cresol isomers can be addressed by total cresols. Meta (m) and para (p) isomers are considered difficult to distinguish and are often reported together.

b) List applicable characteristic waste codes, flash point, pH, constituents, and concentrations, as appropriate.

| | | | | | | |
|---|---|---|---|---|---|---|
| D001 | ☐ FP < 100°F | ☐ FP ≥ 100° < 140°F | ☐ DOT Oxidizer | ☐ | ☒ | ☐ |
| D002 | ☐ pH ≤ 2 | ☐ pH ≥ 12.5 | ☐ Solid Corrosive *(WSC2)* | ☐ | ☒ | ☐ |
| D003 | ☐ Cyanide | ☐ Sulfide | ☐ Water Reactive | ☐ | ☒ | ☐ |
| | ☐ Other: | | *(i.e., peroxide, former explosive, air reactive)* | | | |
| D004-D043 *(Identify applicable waste codes and concentrations)*: | | | | ☒ | ☐ | ☐ |

004-011, 019, 022, 030, 034, 035, 037, 039, 040, 043

c) If characteristic, list any known Underlying Hazardous Constituents (UHCs) reasonable expected to be present, and their concentrations that may be present above the Land Disposal Restrictions (LDR) treatment standard *(40 CFR 265.48)*.

Unknown

d) List any known LDR subcategories, if applicable *(40 CFR 268.40)*.

## GENERATOR KNOWLEDGE INFORMATION (Continued)

| 1. Chain of Custody Number: | CACN/COA: 901635/JCPC | Customer Identification Number: |
|---|---|---|

e) List any applicable Washington State Dangerous Waste Codes *(not required if federally regulated):*

| | Yes | No | Un-known | | *(*State mixture rule for ignitability)* | Yes | No | Un-known |
|---|---|---|---|---|---|---|---|---|
| WT01 | ☐ | ☒ | ☐ | | WP01 | ☐ | ☒ | ☐ |
| WT02 | ☐ | ☒ | ☐ | | WP02 | ☐ | ☒ | ☐ |
| W001 | ☐ | ☒ | ☐ | | WP03 | ☐ | ☒ | ☐ |
| | | | | | F003* | ☐ | ☒ | ☐ |

List constituents and concentrations:

4. Is this material TSCA regulated for PCBs? ☐ Yes ☒ No ☐ Unknown ☐ Analysis Requested
   List concentration, if applicable:
   If Yes, what is the source of the PCBs? *(see DOE/RL-2001-50, TSCA PCB Hanford Site User Guide)*
   ☐ PCB Liquid Waste ☐ PCB Bulk Product Waste ☐ PCB Transformer ≥ 500 ppm ☐ Unknown
   ☐ PCB Remediation Waste ☐ PCB R&D Waste ☐ PCB Contaminated Electrical Equipment *(capacitor/ballast)* < 500 ppm
   ☐ PCB Spill Material ☐ PCB Item ☐ Other PCB Waste *(list)*:

5. Does this sample/material contain transuranic radionuclides at a concentration greater than 100 nCi/g? ☐ Yes ☒ No ☐ Unknown

6. Accuracy of Information:
   Based on my inquiry of those individuals immediately responsible for obtaining this information, that to the best of my knowledge, the information entered in this document is true, accurate, and complete.

Bob Cathel
*Print First and Last Name*

Cathel, Robert L Digitally signed by Cathel, Robert L Date: 2025.06.26 13:04:29 -07'00'
*Signature / Date*

# Appendix C

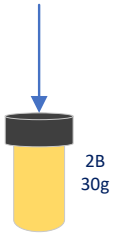
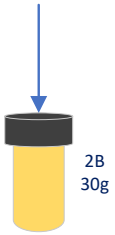
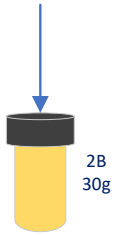
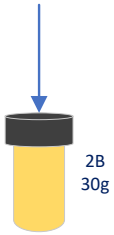
## Sample Breakdown Diagrams

(3 pages including cover sheet)

**271-T Cage Storage Area**
**Non-TCD/CPCCo**
**Group: 20250260**

KEEP REFRIGERATED

**Analytical Notes:**
Use the largest sample size (the least dilution) possible to obtain the lowest possible detection limit.

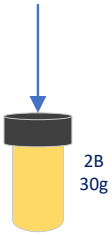
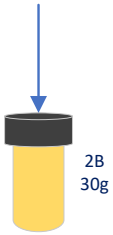
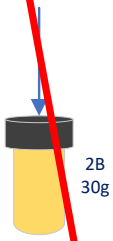
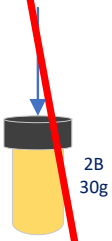
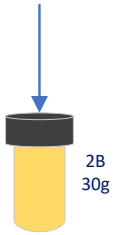
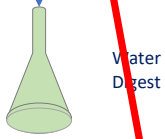
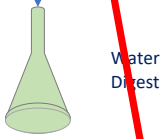
| Sample ID: B4NT12 | Sample ID: B4NT14 | Sample ID: B4NT16 | Sample ID: B4NT18 |
|---|---|---|---|
| 60mL Solid 2B | 60mL Solid 2B | 60mL Solid 2B | 60mL Solid 2B |
| S25M000481 BRKDWN SAMPLE | S25M000482 BRKDWN SAMPLE | S25M000483 BRKDWN SAMPLE | S25M000484 BRKDWN SAMPLE |
|  2B 30g |  2B 30g |  2B 30g |  2B 30g |
| S25M000485 Dose Rate 2B SAMP AMT – 2B | S25M000486 Dose Rate 2B SAMP AMT – 2B | S25M000487 Dose Rate 2B SAMP AMT – 2B | S25M000488 Dose Rate 2B SAMP AMT – 2B |
| Water Digest | Water Digest | Water Digest | Water Digest |
| S25M000489 IC-anions/org (formate) | S25M000490 IC-anions/org (formate) | S25M000491 IC-anions/org (formate) | S25M000492 IC-anions/org (formate) |

**REV 2**
**Pg. 3 of 4**

**271-T Cage Storage Area**
**Non-TCD/CPCCo**
**Group: 20250260**

KEEP REFRIGERATED

**Analytical Notes:**
Use the largest sample size (the least dilution) possible to obtain the lowest possible detection limit.

| Sample ID: B4NT20 | Sample ID: B4NT22 | Sample ID: B4NT24 | Sample ID: B4NT26 | Sample ID: B4NT31 |
|---|---|---|---|---|
| 60mL Solid 2B | 60mL Solid 2B | 60mL Solid 2B | 60mL Solid 2B | 60mL Solid 2B |
| S25M000493 BRKDWN SAMPLE | S25M000494 BRKDWN SAMPLE | S25M000495 BRKDWN SAMPLE Archive Sample | S25M000496 BRKDWN SAMPLE Archive Sample | S25M000497 BRKDWN SAMPLE |
|  2B 30g |  2B 30g |  2B 30g |  2B 30g |  2B 30g |
| S25M000498 Dose Rate 2B SAMP AMT – 2B | S25M000499 Dose Rate 2B SAMP AMT – 2B | S25M000500 Dose Rate 2B SAMP AMT – 2B | S25M000501 Dose Rate 2B SAMP AMT – 2B | S25M000502 Dose Rate 2B SAMP AMT – 2B |
| Water Digest | Water Digest |  Water Digest |  Water Digest | Water Digest |
| S25M000503 IC-anions/org (formate) | S25M000504 IC-anions/org (formate) | S25M000505 IC-anions/org (formate) | S25M000506 IC-anions/org (formate) | S25M000507 IC-anions/org (formate) |

**Not Received**
**ES 3/4/26**

**REV 2**
**Pg. 4 of 4**

**Appendix D**

**Analysis Date and Holding Time Report**

(2 pages including cover sheet)

## Appendix D Analysis Date and Holding Time Report

| Sample | Customer ID | Method | Prep Method | Sample Date/Time | Received Date/Time | Prep Date | Analysis Date | Missed Holding Time |
|---|---|---|---|---|---|---|---|---|
| S25M000489 | B4NT12 | IC - ANIONS/SMALL ORG. ACIDS | WATER DIGEST | 02/11/2026 09:30 | 02/11/2026 12:37 | 02/19/2026 09:27 | 02/19/2026 18:08 | N |
| S25M000490 | B4NT14 | IC - ANIONS/SMALL ORG. ACIDS | WATER DIGEST | 02/11/2026 09:30 | 02/11/2026 12:37 | 02/19/2026 09:27 | 02/19/2026 18:45 | N |
| S25M000491 | B4NT16 | IC - ANIONS/SMALL ORG. ACIDS | WATER DIGEST | 02/11/2026 10:20 | 02/11/2026 12:37 | 02/19/2026 09:27 | 02/19/2026 19:22 | N |
| S25M000492 | B4NT18 | IC - ANIONS/SMALL ORG. ACIDS | WATER DIGEST | 02/11/2026 11:00 | 02/11/2026 12:37 | 02/19/2026 09:27 | 02/19/2026 19:59 | N |
| S25M000503 | B4NT20 | IC - ANIONS/SMALL ORG. ACIDS | WATER DIGEST | 02/11/2026 11:20 | 02/11/2026 12:37 | 02/19/2026 09:27 | 02/19/2026 20:36 | N |
| S25M000504 | B4NT22 | IC - ANIONS/SMALL ORG. ACIDS | WATER DIGEST | 02/11/2026 11:20 | 02/11/2026 12:37 | 02/19/2026 09:27 | 02/19/2026 21:12 | N |
| S25M000507 | B4NT31 | IC - ANIONS/SMALL ORG. ACIDS | WATER DIGEST | 02/11/2026 09:00 | 02/11/2026 12:37 | 02/19/2026 09:27 | 02/19/2026 21:49 | N |

# Appendix E

## Correspondence

(2 pages including cover sheet)

**From:** Medley, Heather A
**To:** Sutey, Emily A; Vasquez, Joan A
**Cc:** Noyes, Gary W; Menjivar, Carolina E; Sumner, Laine C; Finley, Eric A; Black, Amanda M
**Subject:** T-Plant RCRA sampling
**Date:** Wednesday, February 11, 2026 9:25:57 AM
**Attachments:** image001.png
F25-033_211-TPAD - Soil Samples - RCRA Closure - Rev0.pdf
F25-034_277-T Outdoor Storage Area - Soil Samples - RCRA Closure - Rev1.pdf
F25-035_271-T Cage Storage Area - Soil Samples - RCRA Closure - Rev0.pdf
F25-033 To F25-035 Values Table.pdf

---

Emily and Joan,

We have finally started sampling the T-Plant RCRA closure areas. I have attached the SAFs and the values table again since these have been in the works for quite some time. As reminder with the values table, IF a sample dilution is needed we request you let us know if a non-detected result will be greater than 7.20E+04 mg/kg. Otherwise please report non-detects to the MDL.

222S should expect the samples today or tomorrow.

Please let me know if you have any questions or need more information from us.

CPCCo
Central Plateau Cleanup Company
an Amentum, Fluor, Atkins LLC
A prime contractor for the U.S. Department of Energy

**Heather Medley**
***Manager of Analytical Services Group***
*Sample Management and Reporting*
W: (509) 373-6909
C: (513) 939-7991
E: Heather_A_Medley@rl.gov
**www.cpcchanford.com**

# Appendix F

## Sampling Authorization Form

(6 pages including cover sheet)

# Central Plateau Cleanup Company

# SAMPLING AUTHORIZATION FORM

**SAF NUM** F25-035 **SAF TITLE** 271-T Cage Storage Area - Soil Samples - RCRA Closure **REV** 0

| | |
|---|---|
| **PROJECT** | T Plant RCRA |
| **PROGRAM/PROJECT TYPE** | RCRA Closure |
| **OPERABLE UNIT** | NONE |

| | | | |
|---|---|---|---|
| **REQUESTER** | KOSTIC, EDWIN | **CHARGE CODES** | |
| **TASK MANAGER** | KOSTIC, EDWIN | ALL CPCCO SERVICES | 901635 |
| **PROJECT COORDINATOR** | SUMNER, LC | | |

| | | | |
|---|---|---|---|
| **ESTIMATED START DATE** | 8/15/2025 12:00:00 AM | **SAMPLE AREA** | 200 West |
| **ESTIMATED COMPLETION DATE** | 9/30/2026 12:00:00 AM | **MATRIX** | SOIL |
| **ESTIMATED NUMBER OF SAMPLES** | 4 | | |

**SAMPLING ORGANIZATIONS**

CPCCo Samplers

**LABORATORY/PRICE_CODE/PRIORITY TURNAROUND/REQUIRED TURNAROUND/DATA DELIVERABLE**

Primary / 222-S Lab Operations / 8H / 30 Days / 30 Days / Summary
Primary / CPCCo Radiological Counting Facility / C02 / 24 Hours / 24 Hours / Interim Results & Periodic SDG Rpt
Primary / GEL Laboratories, LLC / 8C / 15 Days / 15 Days / Summary
Primary / TestAmerica St. Louis / 8C / 15 Days / 15 Days / Summary

**SAF COMMENT**

** Media: Soil (SO)
** Purpose: Characterization (C)
** Driving document is Hanford Facility Dangerous Waste Permit (WA7890008967), App H1.
** ORRA WMU code: TPLANT; Type Code: CPCC; AR Code: TS-2-7
** Sample Management, provide copies to: Task Manager, Requester, B. Cathel and M. Matson.

** Dilutions acceptable PROVIDED the PQLs remain below the Closure Performance Standards. If this cannot be met, SMR is to be contacted IMMEDIATELY.

** Results shall NOT be reported as non-detected and above the Closure Performance Standards.
** Refer to the accompanying document "F25-033 To F25-035 Values Table" for Closure Performance Standard Values.

**SAF REVISION COMMENT**

** Admin Update 1: Updated recipients of reports; Removed Warrington, added B. Cathel and M. Matson. EAF 3/2/26

**COC COMMENT**

# Central Plateau Cleanup Company

# SAMPLING AUTHORIZATION FORM

**SAF NUM** F25-035 **SAF TITLE** 271-T Cage Storage Area - Soil Samples - RCRA Closure **REV** 0

## Field Sampling Requirements

**Laboratory: 222-S Lab Operations** **Matrix: SOIL**

| Parameter / Analysis | Reference Method | Container / Volume | VolReq | Preservation | Holding Times |
|---|---|---|---|---|---|
| 9056_ANIONS_IC: COMMON (Add-on) Formate | 9056_ANIONS_IC | G/P 60 mL | Full QC | Cool <=6C | 28 Days/48 Hours |

# Central Plateau Cleanup Company

# SAMPLING AUTHORIZATION FORM

**SAF NUM** F25-035 **SAF TITLE** 271-T Cage Storage Area - Soil Samples - RCRA Closure **REV** 0

## Field Sampling Requirements

**Laboratory: CPCCo Radiological Counting Facility** **Matrix: SOIL**

| Parameter / Analysis | Reference Method | Container / Volume | VolReq | Preservation | Holding Times |
|---|---|---|---|---|---|
| Rad Screen - GEA<br>No CAS | RADSCREEN | aG 60 mL | Full QC | None | 6 Months |

# Central Plateau Cleanup Company

# SAMPLING AUTHORIZATION FORM

**SAF NUM** F25-035 **SAF TITLE** 271-T Cage Storage Area - Soil Samples - RCRA Closure **REV** 0

## Field Sampling Requirements

**Laboratory: GEL Laboratories, LLC** **Matrix: SOIL**

| Parameter / Analysis | Reference Method | Container / Volume | VolReq | Preservation | Holding Times |
|---|---|---|---|---|---|
| 7471_MERCURY_CV: COMMON (SOLIDS)<br>Mercury | 7471_HG_CVAA | G 250 mL | Full QC | Cool <=6C | 28 Days |
| 6010_METALS_ICP: COMMON<br>Arsenic, Barium, Cadmium, Silver, Vanadium | 6010_METALS_ICP | | Full QC | | 6 Months |
| 6010_METALS_ICP: COMMON (Add-on)<br>Lead, Selenium | 6010_METALS_ICP | | Full QC | | 6 Months |
| 6020_METALS_ICPMS: COMMON<br>Arsenic | 6020_METALS_ICPMS | | Full QC | | 6 Months |
| 7196_CR6: COMMON<br>Hexavalent Chromium | 7196_CR6 | | Full QC | | 30 Days |
| 5035/8260_VOA: LOW LEVEL: COMMON<br>1,1,1-Trichloroethane, 1,1,2-Trichloroethane, 2-Butanone, 4-Methyl-2-pentanone, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Ethylbenzene, Methylene chloride, Tetrachloroethene, Toluene, Trichloroethene, Vinyl chloride, Xylenes (total) | 8260_VOA_GCMS | aGs 5X40 mL | Full QC | Frozen/Frozen | 14 Days |
| 5035/8260_VOA: LOW LEVEL: COMMON (Add-On)<br>1,1,2-Trichloro-1,2,2-trifluoroethane, 1,4-Dioxane, 1-Butanol, Diethyl ether, Ethyl acetate, Isobutyl alcohol, Tetrahydrofuran, Trichloromonofluoromethane | 8260_VOA_GCMS | | Full QC | | 14 Days |
| 8270_SVOA_GCMS: CH 01<br>1,2-Dichlorobenzene, 2,4-Dinitrotoluene, Bis(2-chloroethyl) ether, Nitrobenzene | 8270_SVOA_GCMS | aG 250 mL | Full QC | Cool <=6C | 14/40 Days |
| 8270_SVOA_GCMS: COMMON (Add-on)<br>Hexachloroethane, Pyridine, Total cresols | 8270_SVOA_GCMS | | Full QC | | 14/40 Days |
| 8270_SVOA_GCMS: COMMON<br>Pentachlorophenol | 8270_SVOA_GCMS | | Full QC | | 14/40 Days |
| SMR_8015_METHANOL<br>Methanol | 8015_VOA_GC | G 125 mL | Full QC | Cool <=6C | 14 Days |
| 9012_CYANIDE (TOTAL): COMMON<br>Cyanide | 9012_CYANIDE | aG 60 mL | Full QC | Cool <=6C | 14 Days |

# Central Plateau Cleanup Company

# SAMPLING AUTHORIZATION FORM

**SAF NUM** F25-035 **SAF TITLE** 271-T Cage Storage Area - Soil Samples - RCRA Closure **REV** 0

## Field Sampling Requirements

**Laboratory: TestAmerica St. Louis** **Matrix: SOIL**

| Parameter / Analysis | Reference Method | Container / Volume | VolReq | Preservation | Holding Times |
|---|---|---|---|---|---|
| 7471_MERCURY_CV: COMMON (SOLIDS)<br>Mercury | 7471_HG_CVAA | G 250 mL | Full QC | Cool <=6C | 28 Days |
| 6010_METALS_ICP: COMMON<br>Barium, Cadmium, Silver | 6010_METALS_ICP | | Full QC | | 6 Months |
| 6010_METALS_ICP: COMMON (Add-on)<br>Lead, Selenium | 6010_METALS_ICP | | Full QC | | 6 Months |
| 6020_METALS_ICPMS: COMMON<br>Arsenic | 6020_METALS_ICPMS | | Full QC | | 6 Months |

### Key to Container Types

G = Glass
Gs = Glass w/ septum cap
Gs* = Glass w/ septum cap- no head space in container
P = Plastic (Polyethylene)
aG = Amber Glass
aGs = Amber Glass w/ septum cap
aGs* = Amber Glass w/ septum cap- no head space in container
aG/T = Amber Glass w/ Teflon Lined Lid

# Appendix G

## Problem and Discrepancy Report

(2 pages, including cover sheet)

# PROBLEM AND DISCREPANCY (P&D) REPORT

| P&D Number: | Rev. Number: | Laboratory: | SDG Number: | Date Initiated: |
|---|---|---|---|---|
| PD26-0111 | 1 | 222-S | 222S20250260 | 3/26/2026 |

**NOTE:** Complete form in accordance with **SGRP-PRO-SMP-50015**, *Sample Management and Reporting Sample Issued Resolution and Problem and Discrepancy Process*

## Sample Event Information

SAF Number(s):
F25-035

## Sampling Information

| | |
|---|---|
| Number of Samples: | 7 |
| Sample Matrix: | SOIL |

## Issue Background

| | |
|---|---|
| Class: | Narrative Issue |
| Type: | Insufficient Description of QC Issues |
| Description: | The narrative reports that an MS and MSD were run on a non-client sample but the MSD % recovery and MS/MSD RPD are not discussed. The narrative is not clear as to whether the duplicate was performed on a client or non-client sample.<br><br>Rev 1: Per phone conversation: Remove MSD from narrative, state that the duplicate was run on a non-SDG sample. |

## Resolution

Proposed Resolution:
Please correct the issue and resubmit the hard copy and electronic copy data packages.

Final Resolution:
Please correct the issue and resubmit the hard copy and electronic copy data packages.

Submitted By:

| SHAW, LEVI R | 03/26/2026 |
|---|---|
| *Print First and Last Name* | *Date* |

Accepted By:

| Sutey, Emily A | 03/26/2026 |
|---|---|
| *Print First and Last Name* | *Date* |

**End of Report**

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