

DATA PACKAGE

GENERAL CHEMISTRY

PROJECT NAME : FT MEADE TIPTON AIRFIELD PARCEL RI - PO 0111169

WESTON SOLUTIONS

1400 Weston Way

PO Box 2653

West Chester, PA - 19380

Phone No: 610-701-7400

ORDER ID : P4653

ATTENTION : David Sembrot



Laboratory Certification ID # 20012



| | |
|------------------------------|----|
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Cover Page

Order ID : P4653

Project ID : Ft Meade Tipton Airfield Parcel RI - PO 0111169

Client : Weston Solutions

Lab Sample Number

P4653-01
P4653-02
P4653-03
P4653-04
P4653-05

Client Sample Number

TAPLPR-SED10-103024-00-T2
TAPLPR-SED09-103024-00-T2
TAPLPR-SED09-103024-00-T2MS
TAPLPR-SED09-103024-00-T2MSD
TAPLPR-SED08-103024-00-T2

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : N. N. Pandya

NYDOH CERTIFICATION NO - 11376

APPROVED

Date: 11/18/2024

By Nimisha Pandya, QA/QC Supervisor at 8:41 am, Nov 19, 2024

NJDEP CERTIFICATION NO - 20012



284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

CASE NARRATIVE

Weston Solutions

Project Name: Ft Meade Tipton Airfield Parcel RI - PO 0111169

Project # N/A

Chemtech Project # P4653

Test Name: pH,TOC

A. Number of Samples and Date of Receipt:

5 Solid samples were received on 10/31/2024.

B. Parameters:

According to the Chain of Custody document, the following analyses were requested: pH and TOC. This data package contains results for pH,TOC.

C. Analytical Techniques:

The analysis of pH was based on method 9045D and The analysis of TOC was based on method Lloyd Kahn.

D. QA/ QC Samples:

The Holding Times were met for all samples except for TAPLPR-SED10-103024-00-T2 of pH, for TAPLPR-SED09-103024-00-T2 of pH & for TAPLPR-SED08-103024-00-T2 of pH due to samples were receive out of hold.

The Blank Spike met requirements for all samples.

The Duplicate analysis met criteria for all samples.

The Matrix Spike analysis met criteria for all samples.

The Matrix Spike Duplicate analysis met criteria for all samples.

The Blank analysis did not indicate the presence of lab contamination.

The Calibration met the requirements.

E. Additional Comments:

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature_____

N. N. Pandya

APPROVED

By Nimisha Pandya, QA/QC Supervisor at 8:41 am, Nov 19, 2024

DATA REPORTING QUALIFIERS- INORGANIC

For reporting results, the following “ Results Qualifiers” are used:

| | |
|-----------|---|
| J | Indicates the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL), but greater than or equal to the Instrument Detection Limit (IDL). |
| U | Indicates the analyte was analyzed for, but not detected. |
| ND | Indicates the analyte was analyzed for, but not detected |
| E | Indicates the reported value is estimated because of the presence of interference |
| M | Indicates Duplicate injection precision not met. |
| N | Indicates the spiked sample recovery is not within control limits. |
| S | Indicates the reported value was determined by the Method of Standard Addition (MSA). |
| * | Indicates that the duplicate analysis is not within control limits. |
| + | Indicates the correlation coefficient for the MSA is less than 0.995. |
| D | Indicates the reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range. |
| M | Method qualifiers “P” for ICP instrument “PM” for ICP when Microwave Digestion is used “CV” for Manual Cold Vapor AA “AV” for automated Cold Vapor AA “CA” for MIDI-Distillation Spectrophotometric “AS” for Semi -Automated Spectrophotometric “C” for Manual Spectrophotometric “T” for Titrimetric “NR” for analyte not required to be analyzed |
| OR | Indicates the analyte’s concentration exceeds the calibrated range of the instrument for that specific analysis. |
| Q | Indicates the LCS did not meet the control limits requirements |
| H | Sample Analysis Out Of Hold Time |

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: P4653

Completed

For thorough review, the report must have the following:

GENERAL:

Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)

✓

Check chain-of-custody for proper relinquish/return of samples

✓

Is the chain of custody signed and complete

✓

Check internal chain-of-custody for proper relinquish/return of samples /sample extracts

✓

Collect information for each project id from server. Were all requirements followed

✓

COVER PAGE:

Do numbers of samples correspond to the number of samples in the Chain of Custody on login page

✓

Do lab numbers and client Ids on cover page agree with the Chain of Custody

✓

CHAIN OF CUSTODY:

Do requested analyses on Chain of Custody agree with form I results

✓

Do requested analyses on Chain of Custody agree with the log-in page

✓

Were the correct method log-in for analysis according to the Analytical Request and Chain of Custody

✓

Were the samples received within hold time

✓

Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: SOHIL JODHANI

Date: 11/18/2024

LAB CHRONICLE

| | | | |
|-----------------|------------------|-------------------|---|
| OrderID: | P4653 | OrderDate: | 10/31/2024 11:13:00 AM |
| Client: | Weston Solutions | Project: | Ft Meade Tipton Airfield Parcel RI - PO 0111169 |
| Contact: | David Sembrot | Location: | K61 |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|----------|-------------------------------|--------|------|------------|-------------------|-----------|-------------------|----------|
| P4653-01 | TAPLPR-SED10-10302 4-00-T2 | SOIL | | | 10/30/24 10:08 | | | 10/31/24 |
| | | | pH | 9045D | | | 10/31/24 15:23 | |
| | | | TOC | Lloyd Kahn | | | 11/01/24 11:51 | |
| P4653-02 | TAPLPR-SED09-10302 4-00-T2 | SOIL | | | 10/30/24 11:15 | | | 10/31/24 |
| | | | pH | 9045D | | | 10/31/24 15:28 | |
| | | | TOC | Lloyd Kahn | | | 11/01/24 12:18 | |
| P4653-05 | TAPLPR-SED08-10302 4-00-T2 | SOIL | | | 10/30/24 12:20 | | | 10/31/24 |
| | | | pH | 9045D | | | 10/31/24 15:37 | |
| | | | TOC | Lloyd Kahn | | | 11/01/24 14:10 | |



SAMPLE DATA

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------------|
| Client: | Weston Solutions | Date Collected: | 10/30/24 10:08 |
| Project: | Ft Meade Tipton Airfield Parcel RI - PO 0111169 | Date Received: | 10/31/24 |
| Client Sample ID: | TAPLPR-SED10-103024-00-T2 | SDG No.: | P4653 |
| Lab Sample ID: | P4653-01 | Matrix: | SOIL |
| | | % Solid: | 82.2 |

| Parameter | Conc. | Qua. | DF | MDL | LOD | LOQ / CRQL | Units | Prep Date | Date Ana. | Ana Met. |
|-----------|-------|------|----|------|------|------------|-------|-----------|----------------|------------|
| pH | 6.30 | H | 1 | 0 | 0 | 0 | pH | | 10/31/24 15:23 | 9045D |
| TOC | 1340 | | 1 | 8.00 | 50.0 | 250 | mg/Kg | | 11/01/24 11:51 | Lloyd Kahn |

Comments: pH result reported at temperature 24.5 °C

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N = Spiked sample recovery not within control limits

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------------|
| Client: | Weston Solutions | Date Collected: | 10/30/24 11:15 |
| Project: | Ft Meade Tipton Airfield Parcel RI - PO 0111169 | Date Received: | 10/31/24 |
| Client Sample ID: | TAPLPR-SED09-103024-00-T2 | SDG No.: | P4653 |
| Lab Sample ID: | P4653-02 | Matrix: | SOIL |
| | | % Solid: | 81.2 |

| Parameter | Conc. | Qua. | DF | MDL | LOD | LOQ / CRQL | Units | Prep Date | Date Ana. | Ana Met. |
|-----------|-------|------|----|------|------|------------|-------|-----------|----------------|------------|
| pH | 6.44 | H | 1 | 0 | 0 | 0 | pH | | 10/31/24 15:28 | 9045D |
| TOC | 1320 | | 1 | 8.00 | 50.0 | 250 | mg/Kg | | 11/01/24 12:18 | Lloyd Kahn |

Comments: pH result reported at temperature 24.4 °C

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

| | | | |
|-------------------|---|-----------------|----------------|
| Client: | Weston Solutions | Date Collected: | 10/30/24 12:20 |
| Project: | Ft Meade Tipton Airfield Parcel RI - PO 0111169 | Date Received: | 10/31/24 |
| Client Sample ID: | TAPLPR-SED08-103024-00-T2 | SDG No.: | P4653 |
| Lab Sample ID: | P4653-05 | Matrix: | SOIL |
| | | % Solid: | 82.6 |

| Parameter | Conc. | Qua. | DF | MDL | LOD | LOQ / CRQL | Units | Prep Date | Date Ana. | Ana Met. |
|-----------|-------|------|----|------|------|------------|-------|-----------|----------------|------------|
| pH | 6.44 | H | 1 | 0 | 0 | 0 | pH | | 10/31/24 15:37 | 9045D |
| TOC | 1060 | | 1 | 8.00 | 50.0 | 250 | mg/Kg | | 11/01/24 14:10 | Lloyd Kahn |

Comments: pH result reported at temperature 24.4 °C

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N = Spiked sample recovery not within control limits



QC RESULT SUMMARY

Initial and Continuing Calibration Verification

Client: Weston Solutions

SDG No.: P4653

Project: Ft Meade Tipton Airfield Parcel RI - PO 0111169

RunNo.: LB133234

| Analyte | Units | Result | True Value | % Recovery | Acceptance Window (%R) | Analysis Date |
|------------------------------|-------|--------|------------|------------|------------------------|---------------|
| Sample ID: ICV pH | pH | 7.01 | 7 | 100 | 90-110 | 10/31/2024 |
| Sample ID: CCV1 pH | pH | 2.00 | 2.00 | 100 | 90-110 | 10/31/2024 |
| Sample ID: CCV2 pH | pH | 12.02 | 12.00 | 100 | 90-110 | 10/31/2024 |

Initial and Continuing Calibration Verification

Client: Weston Solutions

SDG No.: P4653

Project: Ft Meade Tipton Airfield Parcel RI - PO 0111169

RunNo.: LB133245

| Analyte | Units | Result | True Value | % Recovery | Acceptance Window (%R) | Analysis Date |
|-------------------------------|-------|--------|------------|------------|------------------------|---------------|
| Sample ID: ICV1 TOC | mg/L | 1010 | 1000 | 101 | 90-110 | 08/07/2024 |
| Sample ID: CCV1 TOC | mg/L | 1030 | 1000 | 103 | 90-110 | 11/01/2024 |
| Sample ID: CCV2 TOC | mg/L | 978 | 1000 | 98 | 90-110 | 11/01/2024 |
| Sample ID: CCV3 TOC | mg/L | 1020 | 1000 | 102 | 90-110 | 11/01/2024 |

Initial and Continuing Calibration Blank Summary

| | | | |
|-----------------|---|-----------------|----------|
| Client: | Weston Solutions | SDG No.: | P4653 |
| Project: | Ft Meade Tipton Airfield Parcel RI - PO 0111169 | RunNo.: | LB133245 |

| Analyte | Units | Result | Acceptance Limits | Conc Qual | MDL | RDL | Analysis Date |
|-------------------------------|-------|------------|-------------------|-----------|------|-----|---------------|
| Sample ID: ICB1 TOC | mg/L | < 125.0000 | 125.0000 | U | 32.1 | 250 | 08/07/2024 |
| Sample ID: CCB1 TOC | mg/L | < 125.0000 | 125.0000 | U | 32.1 | 250 | 11/01/2024 |
| Sample ID: CCB2 TOC | mg/L | < 125.0000 | 125.0000 | U | 32.1 | 250 | 11/01/2024 |
| Sample ID: CCB3 TOC | mg/L | < 125.0000 | 125.0000 | U | 32.1 | 250 | 11/01/2024 |

Preparation Blank Summary

Client: Weston Solutions

SDG No.: P4653

Project: Ft Meade Tipton Airfield Parcel RI - PO 0111169

| Analyte | Units | Result | Acceptance Limits | Conc Qual | MDL | RDL | Analysis Date |
|------------|--------------------|------------|----------------------|--------------|-----|-----|------------------|
| Sample ID: | LB133245BLS | | | | | | |
| TOC | mg/Kg | < 125.0000 | 125.0000 | U | 8 | 250 | 11/01/2024 |

Matrix Spike Summary

| | | | |
|-------------------|---|---|----------|
| Client: | Weston Solutions | SDG No.: | P4653 |
| Project: | Ft Meade Tipton Airfield Parcel RI - PO 0111169 | Sample ID: | P4653-02 |
| Client ID: | TAPLPR-SED09-103024-00-T2MS | Percent Solids for Spike Sample: | 81.2 |

| Analyte | Units | Acceptance Limit %R | Spiked Result | Conc. Qualifier | Sample Result | Conc. Qualifier | Spike Added | Dilution Factor | % Rec | Qual | Analysis Date |
|---------|-------|------------------------|------------------|--------------------|------------------|--------------------|----------------|--------------------|----------|------|------------------|
| TOC | mg/Kg | 75-125 | 2470 | | 1320 | | 1000 | 1 | 115 | | 11/01/2024 |

Matrix Spike Summary

Client: Weston Solutions

SDG No.: P4653

Project: Ft Meade Tipton Airfield Parcel RI - PO 0111169

Sample ID: P4653-02

Client ID: TAPLPR-SED09-103024-00-T2MSD

Percent Solids for Spike Sample: 81.2

| Analyte | Units | Acceptance Limit %R | Spiked Result | Conc. Qualifier | Sample Result | Conc. Qualifier | Spike Added | Dilution Factor | % Rec | Qual | Analysis Date |
|---------|-------|------------------------|------------------|--------------------|------------------|--------------------|----------------|--------------------|----------|------|------------------|
| TOC | mg/Kg | 75-125 | 2510 | | 1320 | | 1000 | 1 | 119 | | 11/01/2024 |

Duplicate Sample Summary

| | | | |
|-------------------|---|---|----------|
| Client: | Weston Solutions | SDG No.: | P4653 |
| Project: | Ft Meade Tipton Airfield Parcel RI - PO 0111169 | Sample ID: | P4653-01 |
| Client ID: | TAPLPR-SED10-103024-00-T2DUP | Percent Solids for Spike Sample: | 82.2 |

| Analyte | Units | Acceptance Limit | Sample Result | Conc. Qualifier | Duplicate Result | Conc. Qualifier | Dilution Factor | RPD/AD | Qual | Analysis Date |
|---------|-------|------------------|---------------|-----------------|------------------|-----------------|-----------------|--------|------|---------------|
| pH | pH | +/-20 | 6.30 | | 6.31 | | 1 | 0.16 | | 10/31/2024 |

Duplicate Sample Summary

| | | | |
|-------------------|---|---|----------|
| Client: | Weston Solutions | SDG No.: | P4653 |
| Project: | Ft Meade Tipton Airfield Parcel RI - PO 0111169 | Sample ID: | P4653-02 |
| Client ID: | TAPLPR-SED09-103024-00-T2MSD | Percent Solids for Spike Sample: | 81.2 |

| Analyte | Units | Acceptance Limit | Sample Result | Conc. Qualifier | Duplicate Result | Conc. Qualifier | Dilution Factor | RPD/ AD | Qual | Analysis Date |
|---------|-------|------------------|---------------|-----------------|------------------|-----------------|-----------------|---------|------|---------------|
| TOC | mg/Kg | +/-20 | 2470 | | 2510 | | 1 | 2 | | 11/01/2024 |

Laboratory Control Sample Summary

| | | | |
|-----------------|---|-----------------|----------|
| Client: | Weston Solutions | SDG No.: | P4653 |
| Project: | Ft Meade Tipton Airfield Parcel RI - PO 0111169 | Run No.: | LB133245 |

| Analyte | Units | True Value | Result | Conc. Qualifier | % Recovery | Dilution Factor | Acceptance Limit %R | Analysis Date |
|-----------|-------------|------------|--------|-----------------|------------|-----------------|---------------------|---------------|
| Sample ID | LB133245BSS | | | | | | | |
| TOC | mg/Kg | 1000 | 1020 | | 102 | 1 | 90-110 | 11/01/2024 |



SHIPPING DOCUMENTS

P4653



| |
|----------------------|
| Weston COC ID |
| Weston_20241030_1431 |

Chain of Custody Record/Lab Work Request

| | | | |
|-------------------------|-----------------------------------|----------|--------------|
| Client: | Weston Solutions, Inc. | | |
| Project Manager: | David Sembrot | | |
| Street Address: | 1400 Weston Way | City: | West Chester |
| Phone: | 610-314-5456 | ST, ZIP: | PA, 19038 |
| e-mail: | david.sembrot@westonsolutions.com | | |
| Sampled By: | Cheyenne Harrington | | |

| | | | |
|----------------------|---|---------------------|----------------------------------|
| Project Name: | Fort Meade RI | Project POC: | Nathan Fretz |
| PO Number | 0111145 | Phone: | 484-524-5665 |
| W.O. #: | | POC e-mail: | nathan.fretz@westonsolutions.com |
| Lab: | CHEMTECH | Lab POC: | Jordan Hedvat |
| TAT (days): | 21 | Lab Phone: | 908-728-3144 |
| Lab Address: | 284 Sheffield Street Mountainside, NJ 07092 | | |

| Matrix Codes |
|----------------------|
| SS - Soil |
| SE - Sediment |
| SO - Solid |
| SL - Sludge |
| GW - Groundwater |
| W - Water |
| O - Oil |
| A - Air |
| DS - Drum Solids |
| DL - Drum Liquids |
| L - EP/TCLP Leachate |
| WI - Wipe |
| X - Other |
| F - Fish |

| Lab Use Only | | |
|---|---|---|
| Temperature of cooler when received (°C) | | |
| COC Tape was present and unbroken on outer package? | Y | N |
| Samples received in good condition? | Y | N |
| Labels indicate properly preserved? | Y | N |
| Received within holding times? | Y | N |
| Discrepancies between sample labels and COC record? | Y | N |

| | | | | | | | | | | | | | | | | | | |
|----------------------------|-----------------|-----------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Analyses Requested: | pH by EPA 9045D | TOC by EPA 9060A/Lloyd Kahn | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| Container Type: | Glass | Glass | | | | | | | | | | | | | | | | |
| Container Size: | 8 oz | 8 oz | | | | | | | | | | | | | | | | |
| Preservative: | Ice to 0-6 | Ice to 0-6 | | | | | | | | | | | | | | | | |

| # | Sample ID | G/C | Matrix | # Cont | MS/MSD | Date Collected | Time Collected | | | | | | | | | | | Special Instructions/Comments |
|----|---------------------------|-----|--------|--------|--------|----------------|----------------|---|---|--|--|--|--|--|--|--|--|-------------------------------|
| 1 | TAPLPR-SED10-103024-00-T2 | g | SE | 1 | no | 10/30/2024 | 10:08 | X | X | | | | | | | | | |
| 2 | TAPLPR-SED09-103024-00-T2 | g | SE | 1 | yes | 10/30/2024 | 11:15 | X | X | | | | | | | | | |
| 3 | TAPLPR-SED08-103024-00-T2 | g | SE | 1 | no | 10/30/2024 | 12:20 | X | X | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | |

| | | | | | | | |
|---|-------------|-------------|--------------------|-------------|------------------------------|--|--|
| Shipping Airbill Number: 7796 31735561 | | | | | Cooler Number: 1 of 1 | | |
| Relinquished By | Date | Time | Received By | Date | Time | Additional Comments | |
| 1.) <i>Chyn Hjt</i> | 10/30/24 | 1535 | <i>OR</i> | 10-31-24 | 9:45 | QSM 6.0 Compliant | |
| 2.) | | | | | | Deliverable Requirements: DoD Level IV report, EnviroData EDD, and ERIS-compatible EDD | |
| 3.) | | | | | | | |

Laboratory Certification

| Certified By | License No. |
|----------------------|------------------|
| | |
| CAS EPA CLP Contract | 68HERH20D0011 |
| | |
| Connecticut | PH-0830 |
| | |
| DOD ELAP (ANAB) | L2219 |
| | |
| Maine | 2024021 |
| | |
| Maryland | 296 |
| | |
| New Hampshire | 255424 Rev 1 |
| | |
| New Jersey | 20012 |
| | |
| New York | 11376 |
| | |
| Pennsylvania | 68-00548 |
| | |
| Soil Permit | 525-24-234-08441 |
| | |
| Texas | T104704488 |