

## **ANALYTICAL RESULTS SUMMARY**

GENERAL CHEMISTRY  
METALS

**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 : P4986**

**ATTENTION : Nathan Fretz**



**Laboratory Certification ID # 20012**



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## Cover Page

**Order ID :** P4986

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

**Client :** Weston Solutions

**Lab Sample Number**

P4986-01  
P4986-02

**Client Sample Number**

TAPIAL1-SB04D-9-112224-00-T1  
TAPIAL1-SB04D-4-112224-00-T1

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

**APPROVED**

Date: 12/12/2024  
By Nimisha Pandya, QA/QC Supervisor at 9:45 am, Dec 12, 2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

## **CASE NARRATIVE**

### **Weston Solutions**

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

**Project # N/A**

**Chemtech Project # P4986**

**Test Name: Mercury**

### **A. Number of Samples and Date of Receipt:**

2 Solid samples were received on 11/23/2024.

### **B. Parameters:**

According to the Chain of Custody document, the following analyses were requested: Anions Group1, Mercury, pH and TOC. This data package contains results for Mercury.

### **C. Analytical Techniques:**

The analysis of Mercury was based on method 7471B and digestion was based on method 7471B (soils).

### **D. QA/ QC Samples:**

The Holding Times were met for all analysis.

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.

The Serial Dilution met the acceptable requirements.

### **E. Calculation for Hg Soil Sample:**

Conversion of Results from  $\mu\text{g/L}$  or  $\text{ppb}$  to  $\text{mg/kg}$  :

$$\text{Concentration (mg/kg)} = \frac{C \times V_f \times DF}{W \times S} \times 1000$$

Where,

C = Instrument response in  $\mu\text{g/L}$  from the calibration curve.

Vf = Final prepared (absorbing solution) volume (mL)

W = Initial aliquot amount (g) (Fraction of Sample amount taken in prep)

S = % Solids / 100 (Fraction of Percent Solids)

DF = Dilution Factor

**F. Additional Comments:**

---

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Signature N. N. Pandya

**APPROVED**

*By Nimisha Pandya, QA/QC Supervisor at 9:46 am, Dec 12, 2024*



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 # P4986**

**Test Name: pH,TOC,Anions Group1**

### **A. Number of Samples and Date of Receipt:**

2 Solid samples were received on 11/23/2024.

### **B. Parameters:**

According to the Chain of Custody document, the following analyses were requested: Anions Group1, Mercury, Metals ICP-TAL, METALS-TAL, pH and TOC. This data package contains results for pH,TOC,Anions Group1.

### **C. Analytical Techniques:**

The analysis of pH was based on method 9045D, The analysis of Anions Group1 was based on method 9056A and The analysis of TOC was based on method 9060A.

### **D. QA/ QC Samples:**

The Holding Times were met for all samples except for TAPIAL1-SB04D-4-112224-00-T1 of pH, for TAPIAL1-SB04D-9-112224-00-T1 of pH as sample were receive out of holding time.

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 9:46 am, Dec 12, 2024

## DATA REPORTING QUALIFIERS- INORGANIC

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

<b>J</b>	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).
<b>U</b>	Indicates the analyte was analyzed for, but not detected.
<b>ND</b>	Indicates the analyte was analyzed for, but not detected
<b>E</b>	Indicates the reported value is estimated because of the presence of interference
<b>M</b>	Indicates Duplicate injection precision not met.
<b>N</b>	Indicates the spiked sample recovery is not within control limits.
<b>S</b>	Indicates the reported value was determined by the Method of Standard Addition (MSA).
<b>*</b>	Indicates that the duplicate analysis is not within control limits.
<b>+</b>	Indicates the correlation coefficient for the MSA is less than 0.995.
<b>D</b>	Indicates the reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.
<b>M</b>	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
<b>OR</b>	Indicates the analyte’s concentration exceeds the calibrated range of the instrument for that specific analysis.
<b>Q</b>	Indicates the LCS did not meet the control limits requirements
<b>H</b>	Sample Analysis Out Of Hold Time

## APPENDIX A

### QA REVIEW GENERAL DOCUMENTATION

Project #: P4986

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: 12/12/2024





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

**Hit Summary Sheet**  
**SW-846**

<b>SDG No.:</b>	P4986	<b>Order ID:</b>	P4986
<b>Client:</b>	Weston Solutions	<b>Project ID:</b>	Ft Meade Tipton Airfield Parcel RI - PO 01

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID :									



# SAMPLE DATA

## Report of Analysis

Client:	Weston Solutions	Date Collected:	11/22/24
Project:	Ft Meade Tipton Airfield Parcel RI - PO 0111169	Date Received:	11/23/24
Client Sample ID:	TAPIAL1-SB04D-9-112224-00-T1	SDG No.:	P4986
Lab Sample ID:	P4986-01	Matrix:	SOIL
Level (low/med):	low	% Solid:	93.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7439-97-6	Mercury	0.010	U	1	0.0060	0.010	0.013	mg/Kg	11/27/24 08:15	11/27/24 12:57	SW7471B	

Color Before:

Clarity Before:

Texture:

Color After:

Clarity After:

Artifacts:

Comments: METALS-TAL

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

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:	11/22/24
Project:	Ft Meade Tipton Airfield Parcel RI - PO 0111169	Date Received:	11/23/24
Client Sample ID:	TAPIAL1-SB04D-4-112224-00-T1	SDG No.:	P4986
Lab Sample ID:	P4986-02	Matrix:	SOIL
Level (low/med):	low	% Solid:	92.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7439-97-6	Mercury	0.010	U	1	0.0060	0.010	0.013	mg/Kg	11/27/24 08:15	11/27/24 13:11	SW7471B	

Color Before:

Clarity Before:

Texture:

Color After:

Clarity After:

Artifacts:

Comments: METALS-TAL

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

J = Estimated Value

B = Analyte Found in Associated Method Blank

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

OR = Over Range

N =Spiked sample recovery not within control limits

LAB CHRONICLE

OrderID:	P4986	OrderDate:	11/25/2024 10:06:13 AM
Client:	Weston Solutions	Project:	Ft Meade Tipton Airfield Parcel RI - PO 0111169
Contact:	Nathan Fretz	Location:	L51

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4986-01	TAPIAL1-SB04D-9-11 2224-00-T1	SOIL			11/22/24			11/23/24
			Mercury	7471B		11/27/24	11/27/24	
P4986-02	TAPIAL1-SB04D-4-11 2224-00-T1	SOIL			11/22/24			11/23/24
			Mercury	7471B		11/27/24	11/27/24	



# SAMPLE DATA

## Report of Analysis

Client:	Weston Solutions	Date Collected:	11/22/24 11:35
Project:	Ft Meade Tipton Airfield Parcel RI - PO 0111169	Date Received:	11/23/24
Client Sample ID:	TAPIAL1-SB04D-9-112224-00-T1	SDG No.:	P4986
Lab Sample ID:	P4986-01	Matrix:	SOIL
		% Solid:	93.9

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Bromide	21.3	U	1	0.52	21.3	42.5	mg/Kg		11/25/24 13:11	9056A
Chloride	2.00	J	1	0.10	6.40	12.8	mg/Kg		11/25/24 13:11	9056A
Fluoride	1.00	J	1	0.40	4.30	8.50	mg/Kg		11/25/24 13:11	9056A
Nitrite	6.40	U	1	0.20	6.40	12.8	mg/Kg		11/25/24 13:11	9056A
Nitrate	5.30	U	1	0.095	5.30	10.6	mg/Kg		11/25/24 13:11	9056A
Sulfate	19.8	J	1	0.65	31.9	63.8	mg/Kg		11/25/24 13:11	9056A
pH	6.56	H	1	0	0	0	pH		11/26/24 09:40	9045D
TOC	962		1	19.8	50.0	250	mg/Kg		11/26/24 14:11	9060A

Comments: pH result reported at temperature 23.7 °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:	11/22/24 12:50
Project:	Ft Meade Tipton Airfield Parcel RI - PO 0111169	Date Received:	11/23/24
Client Sample ID:	TAPIAL1-SB04D-4-112224-00-T1	SDG No.:	P4986
Lab Sample ID:	P4986-02	Matrix:	SOIL
		% Solid:	92.8

Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
pH	6.12	H	1	0	0	0	pH		11/26/24 09:45	9045D
TOC	1210		1	19.8	50.0	250	mg/Kg		11/26/24 14:29	9060A

Comments: pH result reported at temperature 23.7 °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



## LAB CHRONICLE

<b>OrderID:</b>	P4986	<b>OrderDate:</b>	11/25/2024 10:06:13 AM
<b>Client:</b>	Weston Solutions	<b>Project:</b>	Ft Meade Tipton Airfield Parcel RI - PO 0111169
<b>Contact:</b>	Nathan Fretz	<b>Location:</b>	L51

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4986-01	TAPIAL1-SB04D-9-11 2224-00-T1	SOIL			11/22/24 11:35			11/23/24
			Anions Group1	9056A				
			pH	9045D				
			TOC	9060A				
P4986-02	TAPIAL1-SB04D-4-11 2224-00-T1	SOIL			11/22/24 12:50			11/23/24
			pH	9045D				
			TOC	9060A				



# SHIPPING DOCUMENTS

p4986

7  
7.1



Weston COC ID
Weston_20241122_1439

### Chain of Custody Record/Lab Work Request

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

<b>Project Name:</b>	Fort Meade RI	<b>Project POC:</b>	Nathan Fretz
<b>PO Number</b>	0111169	<b>Phone:</b>	484-524-5665
<b>W.O. #:</b>		<b>POC e-mail:</b>	nathan.fretz@westonsolutions.com
<b>Lab:</b>	Chemtech	<b>Lab POC:</b>	Jordan Hedvat
<b>TAT (days):</b>	21	<b>Lab Phone:</b>	908-728-3148
<b>Lab Address:</b>	284 Sheffield Street Mountainside, NJ 07092		

Matrix Codes
SB - 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

<b>Analyses Requested:</b>	TAL Metals by EPA 6020B/7471B	pH by EPA 9045D	Anions by EPA 9056A	TOC by EPA 9060A													
	<b>Container Type:</b>	Glass	Glass	Glass	Glass												
	<b>Container Size:</b>	8 oz	8 oz	8 oz	8 oz												
	<b>Preservative:</b>	Ice to 0-6	Ice to 0-6	Ice to 0-6	Ice to 0-6												

#	Sample ID	G/C	Matrix	# Cont	MS/MSD	Date Collected	Time Collected											Special Instructions/Comments
1	TAPIAL1-SB04D-9-112224-00-T1	g	SB		no	11/22/2024	11:35	X	X	X	X							TOC pH in 1 box jar 7/12
2	TAPIAL1-SB04I-4-112224-00-T1	g	SB		no	11/22/2024	12:50	X	X		X							TOC pH in 1 box jar 7/12
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		

<b>Shipping Airbill Number:</b> 7701 6148 1829					<b>Cooler Number:</b>			of	
<b>Relinquished By</b>	<b>Date</b>	<b>Time</b>	<b>Received By</b>	<b>Date</b>	<b>Time</b>	<b>Additional Comments</b>			
1.) [Signature]	11/28/24	1620	[Signature]	11/23/24	10-00	QSM 6.0 Compliant			
2.)					1-3 <sup>rd</sup>	Deliverable Requirements: DoD Level IV report, EnviroData EDD, and ERIS-compatible EDD			
3.)									

---

**From:** Harrington, Cheyenne <Cheyenne.Harrington@WestonSolutions.com>  
**Sent:** Saturday, November 23, 2024 3:49 PM  
**To:** Jordan Hedvat; ProjectManagers@chemtech.net  
**Cc:** Sembrot, David; Sollenberger, Christopher; Fretz, Nathan  
**Subject:** Ft Meade Sample Shipment 11.22.24  
**Attachments:** 11.22.24 COC.pdf

Hi there,

We shipped one sample cooler yesterday via FedEx that was delivered this morning. Please correct the sample ID for sample number 2 on all three chains to TAPIAL1-SB04D-4-112224-00-T1. Note that the sample container column was accidentally left blank on all chains, but the sample containers will be clearly labeled. A copy of the COCs is attached.

Please confirm this sample cooler was received.

Thank you,  
Cheyenne

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---

**From:** Budnovitch, Joe <Joe.Budnovitch@WestonSolutions.com>  
**Sent:** Friday, November 22, 2024 5:15:16 PM  
**To:** Harrington, Cheyenne <Cheyenne.Harrington@WestonSolutions.com>  
**Subject:** 11.22.24 Shipping Docs

Attached is the shipping label, receipt, and COCs.

Joe

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**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