

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 Client Sample Number P4986-01 TAPIAL1-SB04D-9-112224-00-T1 P4986-02 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 :

Date: 12/12/2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

P4986



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

CASE NARRATIVE

2.1

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 µg /L or ppb to mg/kg :

Concentration (mg/kg) = $C \times Vf \times DF / 1000$ W x S

Where,

C = Instrument response in µg/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:

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_____



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

CASE NARRATIVE

2.2

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	



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
Ε	Indicates the reported value is estimated because of the presence of interference
Μ	Indicates Duplicate injection precision not met.
Ν	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 OR	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 analyzedIndicates 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
Н	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)	<u> </u>
Check chain-of-custody for proper relinquish/return of samples	
Is the chain of custody signed and complete	<u>✓</u>
Check internal chain-of-custody for proper relinquish/return of samples /sample extracts	<u> </u>
Collect information for each project id from server. Were all requirements followed	<u> </u>
COVER PAGE:	
Do numbers of samples correspond to the number of samples in the Chain of Custody on login page	<u>✓</u>
Do lab numbers and client Ids on cover page agree with the Chain of Custody	<u>✓</u>
CHAIN OF CUSTODY:	
Do requested analyses on Chain of Custody agree with form I results	<u>✓</u>
Do requested analyses on Chain of Custody agree with the log-in page	<u>✓</u>
Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody	<u>✓</u>
Were the samples received within hold time	
Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle	<u> </u>
ANALYTICAL:	
Was method requirement followed?	<u>✓</u>
Was client requirement followed?	
Does the case narrative summarize all QC failure?	<u>✓</u>
All runlogs and manual integration are reviewed for requirements	<u>✓</u>
All manual calculations and /or hand notations verified	<u>✓</u>

QA Review Signature: SOHIL JODHANI



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

5

B C

D

			Hit Summary SW-84						
SDG No.:	P4986			Order ID:	P49	986			
Client:	Weston Solutions			Project ID:	Ft I	Meade Tip	ton Airfield I	Parcel RI	- PO 01
Sample ID	Client ID	Matrix	Parameter	Concentration	C N	1DL	LOD	RDL	Units





5

A B C D



							anarysi	5				в
Client:	W	eston Solu	utions					Date Collected	l: 11/22	2/24		С
Project:	Ft	Meade T	ipton .	Airfield	Parcel R	AI - PO 0111169	,	Date Received	: 11/23	3/24		D
Client Sample	ID: TA	APIAL1-S	SB04E	0-9-1122	24-00-T	`1		SDG No.:	P498	6		
Lab Sample ID	с: Р4	986-01						Matrix:	SOIL	J		
Level (low/me	d): lo	W						% Solid:	93.9			
Cas Para	meter Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units(Dry	Weigh P)rep Date	Date Ana.	Ana Met.	Prep Met.	_
7439-97-6 Merc	cury 0.010	U	1	0.0060	0.010	0.013	mg/Kg	11/27/24 08:15	11/27/24 12:57	SW7471E	3	-

Color Before:	Clar	rity Before:	Texture:
Color After:	Clar	rity After:	Artifacts:
Comments:	METALS-TAL		
U = Not Dete	octed	J =	Estimated Value
LOQ = Limit	of Quantitation	B =	= Analyte Found in Associated Method Blank
MDL = Meth	od Detection Limit	* :	= indicates the duplicate analysis is not within control limits.
LOD = Limit	of Detection	E =	= Indicates the reported value is estimated because of the presence
D = Dilution		of	interference.
Q = indicates	LCS control criteria did not meet require	ements OF	R = Over Range
		N=	=Spiked sample recovery not within control limits
4986		11 of 21	



	Report of Analy	/SIS
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(D	Dry WeighP)rep Date Date Ana. Ana Met. Prep Met.
7439-97-6 Mercury	0.010 U 1 0.0060 0.010 0.013 mg/H	Kg 11/27/24 08:15 11/27/24 13:11 SW7471B

Color Before: Clarity Be	fore: Texture:
Color After: Clarity Aft	er: Artifacts:
Comments: METALS-TAL	
U = Not Detected	J = Estimated Value
LOQ = Limit of Quantitation	B = Analyte Found in Associated Method Blank
MDL = Method Detection Limit	* = indicates the duplicate analysis is not within control limits.
LOD = Limit of Detection	E = Indicates the reported value is estimated because of the presence
D = Dilution	of interference.
Q = indicates LCS control criteria did not meet requirements	OR = Over Range
-	N =Spiked sample recovery not within control limits
24086	12 of 21

P4986



5

С

D

LAB CHRONICLE

OrderID: Client: Contact:	P4986OrderDate:11/25/2024 10:0Weston SolutionsProject:Ft Meade TiptonNathan FretzLocation:L51					el RI - PO 01111	69	
LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4986-01	TAPIAL1-SB04D-9-11 2224-00-T1	SOIL	Mercury	7471B	11/22/24	11/27/24	11/27/24	11/23/24
P4986-02	TAPIAL1-SB04D-4-11 2224-00-T1	SOIL	Mercury	74718	11/22/24	11/27/24	11/27/24	11/23/24





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В



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
pН	6.56	Н	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

II - Not	Datastad
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

- E = Indicates the reported value is estimated because of the presence of interference.
- OR = Over Range
- N =Spiked sample recovery not within control limits

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



rarameter	Conc.	Qua.	DF	MDL	LOD	LUU/CRQL	Units	Prep Date	Date Ana.	Ana Met.	
Parameter	Conc	Ωυα	DF	MDL	LOD	LOO / CROL	Units	Pron Data	Date Ana.	Ana Met.	
							%	6 Solid:	92.8		
Lab Sample ID:	P49	86-02					Ν	fatrix:	SOIL		
Client Sample ID: TAPIAL1-SB04D-4-112224-00-T1							S	DG No.:	P4986		
Project: Ft Meade Tipton Airfield Parcel RI - PO 0111169								Date Received:	11/23/24		
Client: Weston Solutions							D	Date Collected:	11/22/24 1	2:50	

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



A B C

6

LAB CHRONICLE

OrderID: Client: Contact:	P4986 Weston Solutions Nathan Fretz			OrderDate: Project: Location:	11/25/2024 10: Ft Meade Tipto L51		I RI - PO 01111	69
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			11/25/24 13:11	
			pH	9045D			11/26/24 09:40	
			тос	9060A			11/26/24 14:11	
P4986-02	2 TAPIAL1-SB04D-4-11 2224-00-T1	SOIL			11/22/24 12:50			11/23/24
			рН	9045D			11/26/24 09:45	
			тос	9060A			11/26/24 14:29	



<u>SHIPPING</u> DOCUMENTS

Weston COC ID

Weston_20241122_1439

Chain of Custody Record/Lab Work Request

Project Name:

PO Number

Fort Meade RI

0111169

P4986

Matrix Codes

SB - Soil

1 of 1

Page

Nathan Fretz

484-524-5665

Project POC:

Phone:

7.1

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.co							
Sampled By:	Cheyenne Harrington							

_				***				_								
	Street Address:	1400 Weston Way	City:	West C	hester	W.O. #:	W.O. #:		POC	e-mail: <u>nath</u>	an.fretz@	westonsolutions.co	m	SE - Sediment		
	Phone:	610-314-5456	ST, ŻIP:	PA, 1	9038	Lab:	Che	emtech			l	ab POC:	1	Jordan Hedvat		SO - Solid
	e-mail:	david.sembrot@w	restonsol	utions.c	om	TAT (days):		21			L	ab Phone:		908-728-3148		SL - Studge
	Sampled By:	Cheyenne	Harrington	١		Lab Address:		28	4 Sheff	ield Str	eet Mou	ntainside, NJ	07092		-	GW - Groundwater
								I	Τ		T				ור	W - Water
	Lab	Use Only]			BA BA	42D	056/	160A					O- Oil
Tei	mperature of cooler when received (^c	°C)]	Anohunan	Domunologi	s by 7471	pH by EPA 9045D	PA 8	96 V 01					A- Air
co	C Tape was present and unbroken c	on outer package?	Y	N]	Analyses	requestes:	TAL Metals by EPA 60208/74718		PY E	DA EI					DS - Drum Solids
Sa	mples received in good condition?		Y	N]			TAL	Ŧ	Anions by EPA 9056A	0 2	TOC by EPA 9060A				DL - Drum Liquids
Lat	pels indicate properly preserved?		Y	N]					◄						L - EP/TCLP Leachate
Re	ceived within holding times?		Y	N]		Gontainer Type:	Glass	Glass	Glass	Glass					WI- Wipe
Dis	crepancies between sample labels a	nd COC record?	Y	N]		Container Size:	8 oz	8 oz	8 oz	8 oz					X - Other
							Preservative:	Ice to 0-6		ice to 0-6	Ice to 0-6			1.		F - Fish
#	Sample ID	G/C	Matrix	# Cont	MS/MSD	Date Collected	Time Collected			1			I		Spe	ecial Instructions/Comments
1	TAPIAL1-SB04D-9-112224-00-T1	t g	SB		no	11/22/2024	11:35	X	x	X	x				TN	aptin 1 Soz jes MA
2	TAPIAL1-SB041-4-112224-00-T1	g	SB		no	11/22/2024	12:50	X	x		x	-			Tor	E OH in I Soz KA MAR
3															100	EXI IN BOR JETTI
4															1	
5															1	
6																
7															1	
8															1	
9															-	
10										1					1	
11													+		1	
40													++		+	

	Shipping Airbill Number:	7701 6	148 1829				Cooler Number:	of
	Relinquished By	Date	Time	Received By	Date	Time	Additional	Comments
1.)	Mula IS	11/29/24	1620	Dem	112324	10-00	QSM 6.0 Compliant	
2.)	÷					1.30	Deliverable Requirements: DoD Level IV report	ort, EnviroData EDD, and ERIS-compatible
3.)								

7 7.2

From:	Harrington, Cheyenne < Cheyenne.Harrington@WestonSolutions.com>
Sent:	Saturday, November 23, 2024 3:49 PM
То:	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

Get Outlook for iOS

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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