

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 11:35			11/23/24
			Anions Group1	9056A			11/25/24 13:11	
			pH	9045D			11/26/24 09:40	
			TOC	9060A			11/26/24 14:11	
P4986-02	TAPIAL1-SB04D-4-11 2224-00-T1	SOIL			11/22/24 12:50			11/23/24
			pH	9045D			11/26/24 09:45	
			TOC	9060A			11/26/24 14:29	



SAMPLE DATA

A

B

C

D

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

QC RESULT SUMMARY

Initial and Continuing Calibration Verification

Client: Weston Solutions

SDG No.: P4986

Project: Ft Meade Tipton Airfield Parcel RI - PO 0111169

RunNo.: LB133607

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV1						
Bromide	mg/L	10	10	100	90-110	11/18/2024
Chloride	mg/L	3	3	100	90-110	11/18/2024
Fluoride	mg/L	2	2	100	90-110	11/18/2024
Nitrite	mg/L	3	3	100	90-110	11/18/2024
Nitrate	mg/L	2.5	2.5	100	90-110	11/18/2024
Sulfate	mg/L	14.6	15	97	90-110	11/18/2024
Orthophosphate as P	mg/L	5	5	100	90-110	11/18/2024
Sample ID: CCV1						
Bromide	mg/L	10	10	100	90-110	11/25/2024
Chloride	mg/L	3	3	100	90-110	11/25/2024
Fluoride	mg/L	1.9	2	95	90-110	11/25/2024
Nitrite	mg/L	3	3	100	90-110	11/25/2024
Nitrate	mg/L	2.5	2.5	100	90-110	11/25/2024
Sulfate	mg/L	14.3	15	95	90-110	11/25/2024
Orthophosphate as P	mg/L	5	5	100	90-110	11/25/2024
Sample ID: CCV2						
Bromide	mg/L	10	10	100	90-110	11/25/2024
Chloride	mg/L	3	3	100	90-110	11/25/2024
Fluoride	mg/L	2	2	100	90-110	11/25/2024
Nitrite	mg/L	3	3	100	90-110	11/25/2024
Nitrate	mg/L	2.5	2.5	100	90-110	11/25/2024
Sulfate	mg/L	14.3	15	95	90-110	11/25/2024
Orthophosphate as P	mg/L	5.1	5	102	90-110	11/25/2024

Initial and Continuing Calibration Verification

Client: Weston Solutions

SDG No.: P4986

Project: Ft Meade Tipton Airfield Parcel RI - PO 0111169

RunNo.: LB133628

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV pH	pH	7.00	7	100	90-110	11/26/2024
Sample ID: CCV1 pH	pH	2.01	2.00	101	90-110	11/26/2024
Sample ID: CCV2 pH	pH	12.02	12.00	100	90-110	11/26/2024

Initial and Continuing Calibration Verification

Client: Weston Solutions

SDG No.: P4986

Project: Ft Meade Tipton Airfield Parcel RI - PO 0111169

RunNo.: LB133629

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV1 TOC	mg/L	934	1000	93	90-110	11/12/2024
Sample ID: CCV1 TOC	mg/L	944	1000	94	90-110	11/26/2024
Sample ID: CCV2 TOC	mg/L	982	1000	98	90-110	11/26/2024

Initial and Continuing Calibration Blank Summary

Client: Weston Solutions

SDG No.: P4986

Project: Ft Meade Tipton Airfield Parcel RI - PO 0111169

RunNo.: LB133607

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1							
Bromide	mg/L	< 1.0000	1.0000	U	0.034	2	11/18/2024
Chloride	mg/L	< 0.3000	0.3000	U	0.011	0.6	11/18/2024
Fluoride	mg/L	< 0.2000	0.2000	U	0.057	0.4	11/18/2024
Nitrite	mg/L	< 0.3000	0.3000	U	0.011	0.6	11/18/2024
Nitrate	mg/L	< 0.2500	0.2500	U	0.0034	0.5	11/18/2024
Sulfate	mg/L	< 1.5000	1.5000	U	0.032	3	11/18/2024
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.079	1	11/18/2024
Sample ID: CCB1							
Bromide	mg/L	< 1.0000	1.0000	U	0.034	2	11/25/2024
Chloride	mg/L	< 0.3000	0.3000	U	0.011	0.6	11/25/2024
Fluoride	mg/L	< 0.2000	0.2000	U	0.057	0.4	11/25/2024
Nitrite	mg/L	< 0.3000	0.3000	U	0.011	0.6	11/25/2024
Nitrate	mg/L	< 0.2500	0.2500	U	0.0034	0.5	11/25/2024
Sulfate	mg/L	< 1.5000	1.5000	U	0.032	3	11/25/2024
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.079	1	11/25/2024
Sample ID: CCB2							
Bromide	mg/L	< 1.0000	1.0000	U	0.034	2	11/25/2024
Chloride	mg/L	< 0.3000	0.3000	U	0.011	0.6	11/25/2024
Fluoride	mg/L	< 0.2000	0.2000	U	0.057	0.4	11/25/2024
Nitrite	mg/L	< 0.3000	0.3000	U	0.011	0.6	11/25/2024
Nitrate	mg/L	< 0.2500	0.2500	U	0.0034	0.5	11/25/2024
Sulfate	mg/L	< 1.5000	1.5000	U	0.032	3	11/25/2024
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.079	1	11/25/2024

Initial and Continuing Calibration Blank Summary

Client: Weston Solutions

SDG No.: P4986

Project: Ft Meade Tipton Airfield Parcel RI - PO 0111169

RunNo.: LB133629

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1 TOC	mg/L	< 125.0000	125.0000	U	22.3	250	11/12/2024
Sample ID: CCB1 TOC	mg/L	< 125.0000	125.0000	U	22.3	250	11/26/2024
Sample ID: CCB2 TOC	mg/L	< 125.0000	125.0000	U	22.3	250	11/26/2024

Preparation Blank Summary

Client: Weston Solutions

SDG No.: P4986

Project: Ft Meade Tipton Airfield Parcel RI - PO 0111169

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: LB133607BLS							
Bromide	mg/Kg	< 20.0000	20.0000	U	0.49	40	11/25/2024
Chloride	mg/Kg	< 6.0000	6.0000	U	0.096	12	11/25/2024
Fluoride	mg/Kg	< 4.0000	4.0000	U	0.38	8	11/25/2024
Nitrite	mg/Kg	< 6.0000	6.0000	U	0.19	12	11/25/2024
Nitrate	mg/Kg	< 5.0000	5.0000	U	0.089	10	11/25/2024
Sulfate	mg/Kg	< 30.0000	30.0000	U	0.61	60	11/25/2024
Orthophosphate as P	mg/Kg	< 10.0000	10.0000	U	0.24	20	11/25/2024
Sample ID: LB133629BLS							
TOC	mg/Kg	< 125.0000	125.0000	U	19.8	250	11/26/2024

Matrix Spike Summary

Client:

Weston Solutions

SDG No.:

P4986

Project:

Ft Meade Tipton Airfield Parcel RI - PO 0111169

Sample ID:

P4894-02

Client ID:

FES-SB401-6062MS

Percent Solids for Spike Sample:

75.1

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	4830		3930		1000	1	90		11/26/2024

Matrix Spike Summary

Client:	Weston Solutions	SDG No.:	P4986
Project:	Ft Meade Tipton Airfield Parcel RI - PO 0111169	Sample ID:	P4894-02
Client ID:	FES-SB401-6062MSD	Percent Solids for Spike Sample:	75.1

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	4950		3930		1000	1	102		11/26/2024

Matrix Spike Summary

Client:	Weston Solutions	SDG No.:	P4986
Project:	Ft Meade Tipton Airfield Parcel RI - PO 0111169	Sample ID:	P4986-02
Client ID:	TAPIAL1-SB04D-4-112224-00-T1MS	Percent Solids for Spike Sample:	92.8

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Bromide	mg/Kg	80-120	218		0.53	U	210	1	104		11/25/2024
Chloride	mg/Kg	80-120	68.0		0.88	J	64.4	1	104		11/25/2024
Fluoride	mg/Kg	80-120	40.3		1.50	J	42.9	1	90		11/25/2024
Nitrite	mg/Kg	80-120	65.5		0.20	U	64.4	1	102		11/25/2024
Nitrate	mg/Kg	80-120	54.2		0.096	U	53.7	1	101		11/25/2024
Sulfate	mg/Kg	80-120	319		13.9	J	320	1	95		11/25/2024
Orthophosphate as P	mg/Kg	80-120	95.4		0.26	U	110	1	87		11/25/2024

Matrix Spike Summary

Client:	Weston Solutions	SDG No.:	P4986
Project:	Ft Meade Tipton Airfield Parcel RI - PO 0111169	Sample ID:	P4986-02
Client ID:	TAPIAL1-SB04D-4-112224-00-T1MSD	Percent Solids for Spike Sample:	92.8

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Bromide	mg/Kg	80-120	218		0.53	U	210	1	104		11/25/2024
Chloride	mg/Kg	80-120	67.9		0.88	J	64.4	1	104		11/25/2024
Fluoride	mg/Kg	80-120	40.0		1.50	J	42.9	1	90		11/25/2024
Nitrite	mg/Kg	80-120	65.6		0.20	U	64.4	1	102		11/25/2024
Nitrate	mg/Kg	80-120	54.2		0.096	U	53.7	1	101		11/25/2024
Sulfate	mg/Kg	80-120	322		13.9	J	320	1	96		11/25/2024
Orthophosphate as P	mg/Kg	80-120	98.9		0.26	U	110	1	90		11/25/2024

Duplicate Sample Summary

Client:	Weston Solutions	SDG No.:	P4986
Project:	Ft Meade Tipton Airfield Parcel RI - PO 0111169	Sample ID:	P4894-02
Client ID:	FES-SB401-6062MSD	Percent Solids for Spike Sample:	75.1

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
TOC	mg/Kg	+/-20	4830		4950		1	2		11/26/2024

Duplicate Sample Summary

Client:	Weston Solutions	SDG No.:	P4986
Project:	Ft Meade Tipton Airfield Parcel RI - PO 0111169	Sample ID:	P4986-01
Client ID:	TAPIAL1-SB04D-9-112224-00-T1DUP	Percent Solids for Spike Sample:	93.9

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/AD	Qual	Analysis Date
pH	pH	+/-20	6.56		6.57		1	0.15		11/26/2024

Duplicate Sample Summary

Client:	Weston Solutions	SDG No.:	P4986
Project:	Ft Meade Tipton Airfield Parcel RI - PO 0111169	Sample ID:	P4986-02
Client ID:	TAPIAL1-SB04D-4-112224-00-T1MSD	Percent Solids for Spike Sample:	92.8

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/AD	Qual	Analysis Date
Bromide	mg/Kg	+/-15	218		218		1	0		11/25/2024
Chloride	mg/Kg	+/-15	68.0		67.9		1	0		11/25/2024
Nitrate	mg/Kg	+/-15	54.2		54.2		1	0		11/25/2024
Nitrite	mg/Kg	+/-15	65.5		65.6		1	0		11/25/2024
Fluoride	mg/Kg	+/-15	40.3		40.0		1	1		11/25/2024
Sulfate	mg/Kg	+/-15	319		322		1	1		11/25/2024
Orthophosphate as P	mg/Kg	+/-15	95.4		98.9		1	4		11/25/2024

Laboratory Control Sample Summary

Client:	Weston Solutions	SDG No.:	P4986
Project:	Ft Meade Tipton Airfield Parcel RI - PO 0111169	Run No.:	LB133607

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB133607BSS							
Bromide	mg/Kg	200	200		100	1	90-110	11/25/2024
Chloride	mg/Kg	60	59.1		98	1	90-110	11/25/2024
Fluoride	mg/Kg	40	38.9		97	1	90-110	11/25/2024
Nitrite	mg/Kg	60	59.9		100	1	90-110	11/25/2024
Nitrate	mg/Kg	50	49.4		99	1	90-110	11/25/2024
Sulfate	mg/Kg	300	285		95	1	90-110	11/25/2024
Orthophosphate as P	mg/Kg	100	102		102	1	90-110	11/25/2024

Laboratory Control Sample Summary

Client: Weston Solutions

SDG No.: P4986

Project: Ft Meade Tipton Airfield Parcel RI - PO 0111169

Run No.: LB133629

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB133629BSS							
TOC	mg/Kg	1000	952		95	1	90-110	11/26/2024