

Cover Page

- Order ID : P5241
- Project ID : Ft Meade Tipton Airfield Parcel RI PO 0111169
 - Client : Weston Solutions

Lab Sample Number

Client Sample Number

P5241-01

TAPIAL2-SB02D-13-112424-00-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: 12/20/2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012



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CASE NARRATIVE

Weston Solutions Project Name: Ft Meade Tipton Airfield Parcel RI - PO 0111169 Project # N/A Chemtech Project # P5241 Test Name: Metals ICP-TAL

A. Number of Samples and Date of Receipt:

1 Solid sample was received on 11/27/2024.

B. Parameters:

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

C. Analytical Techniques:

The analysis of Metals ICP-TAL was based on method 6020B and digestion based on method 3050 (soils).

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Blank Spike met requirements for all samples.

The Duplicate (TAPIAL2-SB02D-13-112424-00-T1DUP) analysis met criteria for all samples except for Zinc due to sample matrix interference.

The Matrix Spike (TAPIAL2-SB02D-13-112424-00-T1MS) analysis met criteria for all samples except for Arsenic, Beryllium, Cadmium, Cobalt, Selenium, Silver and Vanadium due to Chemical Interference during digestion process.

The Matrix Spike Duplicate (TAPIAL2-SB02D-13-112424-00-T1MSD) analysis met criteria for all samples except for Arsenic, Beryllium, Cadmium, Cobalt, Selenium, Silver and Vanadium due to Chemical Interference during digestion process.

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

The Calibration met the requirements.

The Serial Dilution (TAPIAL2-SB02D-13-112424-00-T1L) met criteria for all samples except for Nickel due to sample matrix interference.

E. Additional Comments:

P5241-01 sample analyzed Straight X5 dilution because of high interferent samples.

Collision cell is being used to remove potential interferences. The analytes Na, Mg, Al, K, V, Cr, Mn, Fe, Co, Ni, Cu, Zn, As are being analyzed with collision cell and analytes Be, B, Ca, Ti, Se, Sr, Zr, Mo, Ag, Cd, Sn, Sb, Ba, Tl, Pb, U are being analyzed with Non-Collision Cell. Helium gas is used for the Collision Cell analysis.



Calculation for ICP-MS Soil Sample:

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

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

Where,

C = Instrument value in ppb (The average of all replicate integrations)

Vf = Final digestion volume (mL)

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

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

DF = Dilution Factor

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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
Е	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 "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 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
Н	Sample Analysis Out Of Hold Time



APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: P5241

Completed

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QA Review Signature: SOHIL JODHANI