

LAB CHRONICLE

OrderID:	P5076	OrderDate:	12/4/2024 11:11:00 AM
Client:	Weston Solutions	Project:	Ft Meade Tipton Airfield Parcel RI - PO 0111169
Contact:	Nathan Fretz	Location:	L61

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P5076-01	TAPIAL2-SB02I-7.5-1 20224-00-T1	SOIL			12/02/24			12/04/24
			Mercury	7471B		12/06/24	12/06/24	
			Metals ICP-TAL	6020B		12/18/24	12/19/24	

Hit Summary Sheet SW-846

SDG No.:	P5076	Order ID:	P5076
Client:	Weston Solutions	Project ID:	Ft Meade Tipton Airfield Parcel RI - PO 01

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID : TAPIAL2-SB02I-7.5-120224-00-T1									
P5076-01	TAPIAL2-SB02I-7.5-120224-00-	SOIL	Aluminum	2460	D	2.18	3.89	7.77	mg/Kg
P5076-01	TAPIAL2-SB02I-7.5-120224-00-	SOIL	Arsenic	1.48	D	0.035	0.097	0.39	mg/Kg
P5076-01	TAPIAL2-SB02I-7.5-120224-00-	SOIL	Barium	16.2	D	0.14	0.49	3.89	mg/Kg
P5076-01	TAPIAL2-SB02I-7.5-120224-00-	SOIL	Beryllium	0.16	JD	0.097	0.29	0.39	mg/Kg
P5076-01	TAPIAL2-SB02I-7.5-120224-00-	SOIL	Calcium	125	JD	26.2	73.8	194	mg/Kg
P5076-01	TAPIAL2-SB02I-7.5-120224-00-	SOIL	Chromium	5.83	D	0.093	0.19	0.78	mg/Kg
P5076-01	TAPIAL2-SB02I-7.5-120224-00-	SOIL	Cobalt	2.20	D	0.031	0.097	0.39	mg/Kg
P5076-01	TAPIAL2-SB02I-7.5-120224-00-	SOIL	Copper	3.00	D	0.22	0.39	0.78	mg/Kg
P5076-01	TAPIAL2-SB02I-7.5-120224-00-	SOIL	Iron	5710	D	4.31	4.86	19.4	mg/Kg
P5076-01	TAPIAL2-SB02I-7.5-120224-00-	SOIL	Lead	3.01	D	0.058	0.29	0.39	mg/Kg
P5076-01	TAPIAL2-SB02I-7.5-120224-00-	SOIL	Magnesium	294	D	10.5	73.8	194	mg/Kg
P5076-01	TAPIAL2-SB02I-7.5-120224-00-	SOIL	Manganese	55.9	D	0.13	0.19	0.39	mg/Kg
P5076-01	TAPIAL2-SB02I-7.5-120224-00-	SOIL	Nickel	2.36	D	0.062	0.097	0.39	mg/Kg
P5076-01	TAPIAL2-SB02I-7.5-120224-00-	SOIL	Mercury	0.013		0.0060	0.010	0.013	mg/Kg
P5076-01	TAPIAL2-SB02I-7.5-120224-00-	SOIL	Potassium	224	D	15.5	73.8	194	mg/Kg
P5076-01	TAPIAL2-SB02I-7.5-120224-00-	SOIL	Vanadium	9.78	D	0.031	0.097	1.94	mg/Kg
P5076-01	TAPIAL2-SB02I-7.5-120224-00-	SOIL	Zinc	7.03	D	0.51	0.58	1.94	mg/Kg



SAMPLE DATA

Report of Analysis

Client:	Weston Solutions	Date Collected:	12/02/24
Project:	Ft Meade Tipton Airfield Parcel RI - PO 0111169	Date Received:	12/04/24
Client Sample ID:	TAPIAL2-SB021-7.5-120224-00-T1	SDG No.:	P5076
Lab Sample ID:	P5076-01	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.
7429-90-5	Aluminum	2460	D	5	2.18	3.89	7.77	mg/Kg	12/18/24 10:40	12/19/24 17:14	SW6020	SW3050
7440-36-0	Antimony	0.29	UDN	5	0.039	0.29	0.78	mg/Kg	12/18/24 10:40	12/19/24 17:14	SW6020	SW3050
7440-38-2	Arsenic	1.48	DN	5	0.035	0.097	0.39	mg/Kg	12/18/24 10:40	12/19/24 17:14	SW6020	SW3050
7440-39-3	Barium	16.2	D	5	0.14	0.49	3.89	mg/Kg	12/18/24 10:40	12/19/24 17:14	SW6020	SW3050
7440-41-7	Beryllium	0.16	JDN	5	0.097	0.29	0.39	mg/Kg	12/18/24 10:40	12/19/24 17:14	SW6020	SW3050
7440-43-9	Cadmium	0.29	UDN	5	0.11	0.29	0.39	mg/Kg	12/18/24 10:40	12/19/24 17:14	SW6020	SW3050
7440-70-2	Calcium	125	JD	5	26.2	73.8	194	mg/Kg	12/18/24 10:40	12/19/24 17:14	SW6020	SW3050
7440-47-3	Chromium	5.83	DN	5	0.093	0.19	0.78	mg/Kg	12/18/24 10:40	12/19/24 17:14	SW6020	SW3050
7440-48-4	Cobalt	2.20	DN	5	0.031	0.097	0.39	mg/Kg	12/18/24 10:40	12/19/24 17:14	SW6020	SW3050
7440-50-8	Copper	3.00	D	5	0.22	0.39	0.78	mg/Kg	12/18/24 10:40	12/19/24 17:14	SW6020	SW3050
7439-89-6	Iron	5710	D	5	4.31	4.86	19.4	mg/Kg	12/18/24 10:40	12/19/24 17:14	SW6020	SW3050
7439-92-1	Lead	3.01	D	5	0.058	0.29	0.39	mg/Kg	12/18/24 10:40	12/19/24 17:14	SW6020	SW3050
7439-95-4	Magnesium	294	D	5	10.5	73.8	194	mg/Kg	12/18/24 10:40	12/19/24 17:14	SW6020	SW3050
7439-96-5	Manganese	55.9	D	5	0.13	0.19	0.39	mg/Kg	12/18/24 10:40	12/19/24 17:14	SW6020	SW3050
7439-97-6	Mercury	0.013		1	0.0060	0.010	0.013	mg/Kg	12/06/24 10:15	12/06/24 17:26	SW7471B	
7440-02-0	Nickel	2.36	DN	5	0.062	0.097	0.39	mg/Kg	12/18/24 10:40	12/19/24 17:14	SW6020	SW3050
7440-09-7	Potassium	224	D	5	15.5	73.8	194	mg/Kg	12/18/24 10:40	12/19/24 17:14	SW6020	SW3050
7782-49-2	Selenium	1.75	UDN	5	0.47	1.75	1.94	mg/Kg	12/18/24 10:40	12/19/24 17:14	SW6020	SW3050
7440-22-4	Silver	0.19	UDN	5	0.10	0.19	0.39	mg/Kg	12/18/24 10:40	12/19/24 17:14	SW6020	SW3050
7440-23-5	Sodium	97.2	UD	5	23.7	97.2	194	mg/Kg	12/18/24 10:40	12/19/24 17:14	SW6020	SW3050
7440-28-0	Thallium	0.19	UDN	5	0.039	0.19	0.39	mg/Kg	12/18/24 10:40	12/19/24 17:14	SW6020	SW3050
7440-62-2	Vanadium	9.78	DN	5	0.031	0.097	1.94	mg/Kg	12/18/24 10:40	12/19/24 17:14	SW6020	SW3050
7440-66-6	Zinc	7.03	D	5	0.51	0.58	1.94	mg/Kg	12/18/24 10:40	12/19/24 17:14	SW6020	SW3050

Color Before:	Brown	Clarity Before:	Texture:	Medium
Color After:	Yellow	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



METAL CALIBRATION DATA

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Weston Solutions **SDG No.:** P5076
Contract: WEST04 **Lab Code:** CHEM **Case No.:** P5076 **SAS No.:** P5076
Initial Calibration Source: EPA
Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV12	Mercury	3.72	4.0	93	90 - 110	CV	12/06/2024	16:42	LB133794

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Weston Solutions **SDG No.:** P5076
Contract: WEST04 **Lab Code:** CHEM **Case No.:** P5076 **SAS No.:** P5076
Initial Calibration Source: EPA
Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Mercury	4.92	5.0	98	90 - 110	CV	12/06/2024	16:49	LB133794
CCV02	Mercury	4.72	5.0	94	90 - 110	CV	12/06/2024	17:35	LB133794
CCV03	Mercury	4.96	5.0	99	90 - 110	CV	12/06/2024	18:05	LB133794
CCV04	Mercury	4.95	5.0	99	90 - 110	CV	12/06/2024	18:21	LB133794

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Weston Solutions SDG No.: P5076
 Contract: WEST04 Lab Code: CHEM Case No.: P5076 SAS No.: P5076
 Initial Calibration Source: EPA
 Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Aluminum	491	500	98	90 - 110	P	12/19/2024	15:49	LB134024
	Antimony	220	200	110	90 - 110	P	12/19/2024	15:49	LB134024
	Arsenic	219	200	109	90 - 110	P	12/19/2024	15:49	LB134024
	Barium	106	100	106	90 - 110	P	12/19/2024	15:49	LB134024
	Beryllium	105	100	105	90 - 110	P	12/19/2024	15:49	LB134024
	Cadmium	110	100	110	90 - 110	P	12/19/2024	15:49	LB134024
	Calcium	2020	2000	101	90 - 110	P	12/19/2024	15:49	LB134024
	Chromium	106	100	106	90 - 110	P	12/19/2024	15:49	LB134024
	Cobalt	106	100	106	90 - 110	P	12/19/2024	15:49	LB134024
	Copper	102	100	102	90 - 110	P	12/19/2024	15:49	LB134024
	Iron	2150	2000	108	90 - 110	P	12/19/2024	15:49	LB134024
	Lead	206	200	103	90 - 110	P	12/19/2024	15:49	LB134024
	Magnesium	1170	1200	98	90 - 110	P	12/19/2024	15:49	LB134024
	Manganese	103	100	103	90 - 110	P	12/19/2024	15:49	LB134024
	Nickel	108	110	98	90 - 110	P	12/19/2024	15:49	LB134024
	Potassium	2000	2000	100	90 - 110	P	12/19/2024	15:49	LB134024
	Selenium	214	200	107	90 - 110	P	12/19/2024	15:49	LB134024
	Silver	54.3	50.0	108	90 - 110	P	12/19/2024	15:49	LB134024
	Sodium	2020	2000	101	90 - 110	P	12/19/2024	15:49	LB134024
	Thallium	208	210	99	90 - 110	P	12/19/2024	15:49	LB134024
	Vanadium	102	100	102	90 - 110	P	12/19/2024	15:49	LB134024
	Zinc	204	200	102	90 - 110	P	12/19/2024	15:49	LB134024

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Weston Solutions SDG No.: P5076
Contract: WEST04 Lab Code: CHEM Case No.: P5076 SAS No.: P5076
Initial Calibration Source: EPA
Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICV	Aluminum	18.5	20.0	92	80 - 120	P	12/19/2024	16:04	LB134024
	Antimony	2.04	2.0	102	80 - 120	P	12/19/2024	16:04	LB134024
	Arsenic	1.06	1.0	106	80 - 120	P	12/19/2024	16:04	LB134024
	Barium	9.76	10.0	98	80 - 120	P	12/19/2024	16:04	LB134024
	Beryllium	1.03	1.0	103	80 - 120	P	12/19/2024	16:04	LB134024
	Cadmium	1.06	1.0	106	80 - 120	P	12/19/2024	16:04	LB134024
	Calcium	514	500	103	80 - 120	P	12/19/2024	16:04	LB134024
	Chromium	1.98	2.0	99	80 - 120	P	12/19/2024	16:04	LB134024
	Cobalt	1.04	1.0	104	80 - 120	P	12/19/2024	16:04	LB134024
	Copper	1.91	2.0	96	80 - 120	P	12/19/2024	16:04	LB134024
	Iron	53.4	50.0	107	80 - 120	P	12/19/2024	16:04	LB134024
	Lead	0.92	1.0	92	80 - 120	P	12/19/2024	16:04	LB134024
	Magnesium	498	500	100	80 - 120	P	12/19/2024	16:04	LB134024
	Manganese	0.96	1.0	96	80 - 120	P	12/19/2024	16:04	LB134024
	Nickel	1.03	1.0	103	80 - 120	P	12/19/2024	16:04	LB134024
	Potassium	498	500	100	80 - 120	P	12/19/2024	16:04	LB134024
	Selenium	5.30	5.0	106	80 - 120	P	12/19/2024	16:04	LB134024
	Silver	1.02	1.0	102	80 - 120	P	12/19/2024	16:04	LB134024
	Sodium	473	500	94	80 - 120	P	12/19/2024	16:04	LB134024
	Thallium	0.91	1.0	91	80 - 120	P	12/19/2024	16:04	LB134024
	Vanadium	4.88	5.0	98	80 - 120	P	12/19/2024	16:04	LB134024
	Zinc	4.96	5.0	99	80 - 120	P	12/19/2024	16:04	LB134024

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Weston Solutions SDG No.: P5076
Contract: WEST04 Lab Code: CHEM Case No.: P5076 SAS No.: P5076
Initial Calibration Source: EPA
Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Aluminum	51600	50000	103	90 - 110	P	12/19/2024	16:16	LB134024
	Antimony	511	500	102	90 - 110	P	12/19/2024	16:16	LB134024
	Arsenic	530	500	106	90 - 110	P	12/19/2024	16:16	LB134024
	Barium	2580	2500	103	90 - 110	P	12/19/2024	16:16	LB134024
	Beryllium	494	500	99	90 - 110	P	12/19/2024	16:16	LB134024
	Cadmium	520	500	104	90 - 110	P	12/19/2024	16:16	LB134024
	Calcium	257000	250000	103	90 - 110	P	12/19/2024	16:16	LB134024
	Chromium	510	500	102	90 - 110	P	12/19/2024	16:16	LB134024
	Cobalt	497	500	100	90 - 110	P	12/19/2024	16:16	LB134024
	Copper	4850	5000	97	90 - 110	P	12/19/2024	16:16	LB134024
	Iron	130000	125000	104	90 - 110	P	12/19/2024	16:16	LB134024
	Lead	2610	2500	104	90 - 110	P	12/19/2024	16:16	LB134024
	Magnesium	257000	250000	103	90 - 110	P	12/19/2024	16:16	LB134024
	Manganese	5000	5000	100	90 - 110	P	12/19/2024	16:16	LB134024
	Nickel	477	500	96	90 - 110	P	12/19/2024	16:16	LB134024
	Potassium	127000	125000	102	90 - 110	P	12/19/2024	16:16	LB134024
	Selenium	513	500	103	90 - 110	P	12/19/2024	16:16	LB134024
	Silver	526	500	105	90 - 110	P	12/19/2024	16:16	LB134024
	Sodium	254000	250000	101	90 - 110	P	12/19/2024	16:16	LB134024
	Thallium	529	500	106	90 - 110	P	12/19/2024	16:16	LB134024
	Vanadium	516	500	103	90 - 110	P	12/19/2024	16:16	LB134024
	Zinc	4790	5000	96	90 - 110	P	12/19/2024	16:16	LB134024
CCV02	Aluminum	51600	50000	103	90 - 110	P	12/19/2024	17:01	LB134024
	Antimony	512	500	102	90 - 110	P	12/19/2024	17:01	LB134024
	Arsenic	502	500	100	90 - 110	P	12/19/2024	17:01	LB134024
	Barium	2580	2500	103	90 - 110	P	12/19/2024	17:01	LB134024
	Beryllium	490	500	98	90 - 110	P	12/19/2024	17:01	LB134024
	Cadmium	493	500	99	90 - 110	P	12/19/2024	17:01	LB134024
	Calcium	258000	250000	103	90 - 110	P	12/19/2024	17:01	LB134024
	Chromium	511	500	102	90 - 110	P	12/19/2024	17:01	LB134024
	Cobalt	499	500	100	90 - 110	P	12/19/2024	17:01	LB134024
	Copper	4820	5000	96	90 - 110	P	12/19/2024	17:01	LB134024
	Iron	131000	125000	105	90 - 110	P	12/19/2024	17:01	LB134024
	Lead	2590	2500	103	90 - 110	P	12/19/2024	17:01	LB134024

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Weston Solutions SDG No.: P5076
Contract: WEST04 Lab Code: CHEM Case No.: P5076 SAS No.: P5076
Initial Calibration Source: EPA
Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV02	Magnesium	258000	250000	103	90 - 110	P	12/19/2024	17:01	LB134024
	Manganese	5010	5000	100	90 - 110	P	12/19/2024	17:01	LB134024
	Nickel	476	500	95	90 - 110	P	12/19/2024	17:01	LB134024
	Potassium	127000	125000	102	90 - 110	P	12/19/2024	17:01	LB134024
	Selenium	491	500	98	90 - 110	P	12/19/2024	17:01	LB134024
	Silver	501	500	100	90 - 110	P	12/19/2024	17:01	LB134024
	Sodium	256000	250000	102	90 - 110	P	12/19/2024	17:01	LB134024
	Thallium	523	500	104	90 - 110	P	12/19/2024	17:01	LB134024
	Vanadium	514	500	103	90 - 110	P	12/19/2024	17:01	LB134024
	Zinc	4750	5000	95	90 - 110	P	12/19/2024	17:01	LB134024
CCV03	Aluminum	51700	50000	103	90 - 110	P	12/19/2024	17:20	LB134024
	Antimony	496	500	99	90 - 110	P	12/19/2024	17:20	LB134024
	Arsenic	498	500	100	90 - 110	P	12/19/2024	17:20	LB134024
	Barium	2510	2500	100	90 - 110	P	12/19/2024	17:20	LB134024
	Beryllium	486	500	97	90 - 110	P	12/19/2024	17:20	LB134024
	Cadmium	475	500	95	90 - 110	P	12/19/2024	17:20	LB134024
	Calcium	249000	250000	100	90 - 110	P	12/19/2024	17:20	LB134024
	Chromium	507	500	101	90 - 110	P	12/19/2024	17:20	LB134024
	Cobalt	498	500	100	90 - 110	P	12/19/2024	17:20	LB134024
	Copper	4820	5000	96	90 - 110	P	12/19/2024	17:20	LB134024
	Iron	130000	125000	104	90 - 110	P	12/19/2024	17:20	LB134024
	Lead	2560	2500	102	90 - 110	P	12/19/2024	17:20	LB134024
	Magnesium	259000	250000	103	90 - 110	P	12/19/2024	17:20	LB134024
	Manganese	5010	5000	100	90 - 110	P	12/19/2024	17:20	LB134024
	Nickel	474	500	95	90 - 110	P	12/19/2024	17:20	LB134024
	Potassium	126000	125000	101	90 - 110	P	12/19/2024	17:20	LB134024
	Selenium	479	500	96	90 - 110	P	12/19/2024	17:20	LB134024
	Silver	491	500	98	90 - 110	P	12/19/2024	17:20	LB134024
	Sodium	256000	250000	102	90 - 110	P	12/19/2024	17:20	LB134024
	Thallium	521	500	104	90 - 110	P	12/19/2024	17:20	LB134024
	Vanadium	512	500	102	90 - 110	P	12/19/2024	17:20	LB134024
	Zinc	4810	5000	96	90 - 110	P	12/19/2024	17:20	LB134024



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

Metals

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CRDL STANDARD FOR AA & ICP

Client: Weston Solutions **SDG No.:** P5076
Contract: WEST04 **Lab Code:** CHEM **Case No.:** P5076 **SAS No.:** P5076
Initial Calibration Source: _____
Continuing Calibration Source: _____

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CRA	Mercury	0.20	0.2	102	40 - 160	CV	12/06/2024	16:56	LB133794
CRI	Aluminum	18.6	20.0	93	70 - 130	P	12/19/2024	16:23	LB134024
	Antimony	2.05	2.0	102	70 - 130	P	12/19/2024	16:23	LB134024
	Arsenic	1.07	1.0	107	70 - 130	P	12/19/2024	16:23	LB134024
	Barium	9.65	10.0	96	70 - 130	P	12/19/2024	16:23	LB134024
	Beryllium	1.01	1.0	101	70 - 130	P	12/19/2024	16:23	LB134024
	Cadmium	1.03	1.0	103	70 - 130	P	12/19/2024	16:23	LB134024
	Calcium	521	500	104	70 - 130	P	12/19/2024	16:23	LB134024
	Chromium	2.00	2.0	100	70 - 130	P	12/19/2024	16:23	LB134024
	Cobalt	1.04	1.0	104	50 - 150	P	12/19/2024	16:23	LB134024
	Copper	2.01	2.0	100	70 - 130	P	12/19/2024	16:23	LB134024
	Iron	53.8	50.0	108	70 - 130	P	12/19/2024	16:23	LB134024
	Lead	0.99	1.0	99	70 - 130	P	12/19/2024	16:23	LB134024
	Magnesium	498	500	100	70 - 130	P	12/19/2024	16:23	LB134024
	Manganese	1.00	1.0	100	50 - 150	P	12/19/2024	16:23	LB134024
	Nickel	1.05	1.0	105	70 - 130	P	12/19/2024	16:23	LB134024
	Potassium	497	500	99	70 - 130	P	12/19/2024	16:23	LB134024
	Selenium	5.06	5.0	101	70 - 130	P	12/19/2024	16:23	LB134024
	Silver	1.01	1.0	101	70 - 130	P	12/19/2024	16:23	LB134024
	Sodium	492	500	98	70 - 130	P	12/19/2024	16:23	LB134024
	Thallium	0.98	1.0	98	70 - 130	P	12/19/2024	16:23	LB134024
	Vanadium	4.82	5.0	96	70 - 130	P	12/19/2024	16:23	LB134024
	Zinc	5.08	5.0	102	50 - 150	P	12/19/2024	16:23	LB134024



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

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client:

Weston Solutions

SDG No.:

P5076

Contract:

WEST04

Lab Code:

CHEM

Case No.:

P5076

SAS No.:

P5076

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB12	Mercury	0.20	+/-0.20	U	0.16	0.20	CV	12/06/2024	16:44	LB133794

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Weston Solutions **SDG No.:** P5076
Contract: WEST04 **Lab Code:** CHEM **Case No.:** P5076 **SAS No.:** P5076

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Mercury	0.20	+/-0.20	U	0.16	0.20	CV	12/06/2024	16:51	LB133794
CCB02	Mercury	0.20	+/-0.20	U	0.16	0.20	CV	12/06/2024	17:37	LB133794
CCB03	Mercury	0.20	+/-0.20	U	0.16	0.20	CV	12/06/2024	18:07	LB133794
CCB04	Mercury	0.20	+/-0.20	U	0.16	0.20	CV	12/06/2024	18:29	LB133794

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: <u>Weston Solutions</u>		SDG No.: <u>P5076</u>								
Contract: <u>WEST04</u>	Lab Code: <u>CHEM</u>	Case No.: <u>P5076</u>	SAS No.: <u>P5076</u>							
Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Aluminum	20.0	+/-20.0	U	10.0	20.0	P	12/19/2024	16:07	LB134024
	Antimony	2.00	+/-2.00	U	0.25	2.00	P	12/19/2024	16:07	LB134024
	Arsenic	1.00	+/-1.00	U	0.25	1.00	P	12/19/2024	16:07	LB134024
	Barium	10.0	+/-10.0	U	1.25	10.0	P	12/19/2024	16:07	LB134024
	Beryllium	1.00	+/-1.00	U	0.25	1.00	P	12/19/2024	16:07	LB134024
	Cadmium	1.00	+/-1.00	U	0.50	1.00	P	12/19/2024	16:07	LB134024
	Calcium	500	+/-500	U	190	500	P	12/19/2024	16:07	LB134024
	Chromium	2.00	+/-2.00	U	0.75	2.00	P	12/19/2024	16:07	LB134024
	Cobalt	1.00	+/-1.00	U	0.25	1.00	P	12/19/2024	16:07	LB134024
	Copper	2.00	+/-2.00	U	1.50	2.00	P	12/19/2024	16:07	LB134024
	Iron	50.0	+/-50.0	U	25.0	50.0	P	12/19/2024	16:07	LB134024
	Lead	1.00	+/-1.00	U	0.75	1.00	P	12/19/2024	16:07	LB134024
	Magnesium	500	+/-500	U	190	500	P	12/19/2024	16:07	LB134024
	Manganese	1.00	+/-1.00	U	0.75	1.00	P	12/19/2024	16:07	LB134024
	Nickel	1.00	+/-1.00	U	0.25	1.00	P	12/19/2024	16:07	LB134024
	Potassium	500	+/-500	U	190	500	P	12/19/2024	16:07	LB134024
	Selenium	5.00	+/-5.00	U	4.50	5.00	P	12/19/2024	16:07	LB134024
	Silver	1.00	+/-1.00	U	0.50	1.00	P	12/19/2024	16:07	LB134024
	Sodium	500	+/-500	U	190	500	P	12/19/2024	16:07	LB134024
	Thallium	1.00	+/-1.00	U	0.50	1.00	P	12/19/2024	16:07	LB134024
	Vanadium	5.00	+/-5.00	U	0.25	5.00	P	12/19/2024	16:07	LB134024
	Zinc	5.00	+/-5.00	U	1.50	5.00	P	12/19/2024	16:07	LB134024

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: <u>Weston Solutions</u>		SDG No.: <u>P5076</u>								
Contract: <u>WEST04</u>	Lab Code: <u>CHEM</u>	Case No.: <u>P5076</u>	SAS No.: <u>P5076</u>							
Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Aluminum	20.0	+/-20.0	U	10.0	20.0	P	12/19/2024	16:19	LB134024
	Antimony	0.19	+/-2.00	J	0.25	2.00	P	12/19/2024	16:19	LB134024
	Arsenic	1.00	+/-1.00	U	0.25	1.00	P	12/19/2024	16:19	LB134024
	Barium	10.0	+/-10.0	U	1.25	10.0	P	12/19/2024	16:19	LB134024
	Beryllium	1.00	+/-1.00	U	0.25	1.00	P	12/19/2024	16:19	LB134024
	Cadmium	1.00	+/-1.00	U	0.50	1.00	P	12/19/2024	16:19	LB134024
	Calcium	500	+/-500	U	190	500	P	12/19/2024	16:19	LB134024
	Chromium	2.00	+/-2.00	U	0.75	2.00	P	12/19/2024	16:19	LB134024
	Cobalt	1.00	+/-1.00	U	0.25	1.00	P	12/19/2024	16:19	LB134024
	Copper	2.00	+/-2.00	U	1.50	2.00	P	12/19/2024	16:19	LB134024
	Iron	50.0	+/-50.0	U	25.0	50.0	P	12/19/2024	16:19	LB134024
	Lead	0.31	+/-1.00	J	0.75	1.00	P	12/19/2024	16:19	LB134024
	Magnesium	500	+/-500	U	190	500	P	12/19/2024	16:19	LB134024
	Manganese	1.00	+/-1.00	U	0.75	1.00	P	12/19/2024	16:19	LB134024
	Nickel	1.00	+/-1.00	U	0.25	1.00	P	12/19/2024	16:19	LB134024
	Potassium	500	+/-500	U	190	500	P	12/19/2024	16:19	LB134024
	Selenium	5.00	+/-5.00	U	4.50	5.00	P	12/19/2024	16:19	LB134024
	Silver	0.080	+/-1.00	J	0.50	1.00	P	12/19/2024	16:19	LB134024
	Sodium	500	+/-500	U	190	500	P	12/19/2024	16:19	LB134024
	Thallium	0.14	+/-1.00	J	0.50	1.00	P	12/19/2024	16:19	LB134024
	Vanadium	5.00	+/-5.00	U	0.25	5.00	P	12/19/2024	16:19	LB134024
	Zinc	5.00	+/-5.00	U	1.50	5.00	P	12/19/2024	16:19	LB134024
CCB02	Aluminum	3.07	+/-20.0	J	10.0	20.0	P	12/19/2024	17:03	LB134024
	Antimony	0.25	+/-2.00	J	0.25	2.00	P	12/19/2024	17:03	LB134024
	Arsenic	1.00	+/-1.00	U	0.25	1.00	P	12/19/2024	17:03	LB134024
	Barium	0.35	+/-10.0	J	1.25	10.0	P	12/19/2024	17:03	LB134024
	Beryllium	1.00	+/-1.00	U	0.25	1.00	P	12/19/2024	17:03	LB134024
	Cadmium	1.00	+/-1.00	U	0.50	1.00	P	12/19/2024	17:03	LB134024
	Calcium	500	+/-500	U	190	500	P	12/19/2024	17:03	LB134024
	Chromium	2.00	+/-2.00	U	0.75	2.00	P	12/19/2024	17:03	LB134024
	Cobalt	1.00	+/-1.00	U	0.25	1.00	P	12/19/2024	17:03	LB134024
	Copper	0.43	+/-2.00	J	1.50	2.00	P	12/19/2024	17:03	LB134024
	Iron	50.0	+/-50.0	U	25.0	50.0	P	12/19/2024	17:03	LB134024
	Lead	0.39	+/-1.00	J	0.75	1.00	P	12/19/2024	17:03	LB134024
	Magnesium	500	+/-500	U	190	500	P	12/19/2024	17:03	LB134024
	Manganese	0.35	+/-1.00	J	0.75	1.00	P	12/19/2024	17:03	LB134024
	Nickel	1.00	+/-1.00	U	0.25	1.00	P	12/19/2024	17:03	LB134024
	Potassium	500	+/-500	U	190	500	P	12/19/2024	17:03	LB134024
	Selenium	5.00	+/-5.00	U	4.50	5.00	P	12/19/2024	17:03	LB134024

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: <u>Weston Solutions</u>		SDG No.: <u>P5076</u>								
Contract: <u>WEST04</u>	Lab Code: <u>CHEM</u>	Case No.: <u>P5076</u>	SAS No.: <u>P5076</u>							
Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB02	Silver	0.11	+/-1.00	J	0.50	1.00	P	12/19/2024	17:03	LB134024
	Sodium	500	+/-500	U	190	500	P	12/19/2024	17:03	LB134024
	Thallium	0.11	+/-1.00	J	0.50	1.00	P	12/19/2024	17:03	LB134024
	Vanadium	5.00	+/-5.00	U	0.25	5.00	P	12/19/2024	17:03	LB134024
	Zinc	5.00	+/-5.00	U	1.50	5.00	P	12/19/2024	17:03	LB134024
CCB03	Aluminum	2.64	+/-20.0	J	10.0	20.0	P	12/19/2024	17:23	LB134024
	Antimony	0.23	+/-2.00	J	0.25	2.00	P	12/19/2024	17:23	LB134024
	Arsenic	1.00	+/-1.00	U	0.25	1.00	P	12/19/2024	17:23	LB134024
	Barium	0.35	+/-10.0	J	1.25	10.0	P	12/19/2024	17:23	LB134024
	Beryllium	1.00	+/-1.00	U	0.25	1.00	P	12/19/2024	17:23	LB134024
	Cadmium	1.00	+/-1.00	U	0.50	1.00	P	12/19/2024	17:23	LB134024
	Calcium	500	+/-500	U	190	500	P	12/19/2024	17:23	LB134024
	Chromium	2.00	+/-2.00	U	0.75	2.00	P	12/19/2024	17:23	LB134024
	Cobalt	1.00	+/-1.00	U	0.25	1.00	P	12/19/2024	17:23	LB134024
	Copper	2.00	+/-2.00	U	1.50	2.00	P	12/19/2024	17:23	LB134024
	Iron	50.0	+/-50.0	U	25.0	50.0	P	12/19/2024	17:23	LB134024
	Lead	0.38	+/-1.00	J	0.75	1.00	P	12/19/2024	17:23	LB134024
	Magnesium	500	+/-500	U	190	500	P	12/19/2024	17:23	LB134024
	Manganese	0.26	+/-1.00	J	0.75	1.00	P	12/19/2024	17:23	LB134024
	Nickel	1.00	+/-1.00	U	0.25	1.00	P	12/19/2024	17:23	LB134024
	Potassium	500	+/-500	U	190	500	P	12/19/2024	17:23	LB134024
	Selenium	5.00	+/-5.00	U	4.50	5.00	P	12/19/2024	17:23	LB134024
	Silver	0.11	+/-1.00	J	0.50	1.00	P	12/19/2024	17:23	LB134024
	Sodium	500	+/-500	U	190	500	P	12/19/2024	17:23	LB134024
	Thallium	1.00	+/-1.00	U	0.50	1.00	P	12/19/2024	17:23	LB134024
	Vanadium	5.00	+/-5.00	U	0.25	5.00	P	12/19/2024	17:23	LB134024
	Zinc	5.00	+/-5.00	U	1.50	5.00	P	12/19/2024	17:23	LB134024

Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: Weston Solutions

SDG No.: P5076

Instrument: CV1

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	LOD mg/Kg	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB165448BL		SOLID		Batch Number:		PB165448		Prep Date:	12/06/2024	
	Mercury	0.013	<0.013	U	0.011	0.013	CV	12/06/2024	17:06	LB133794

Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: Weston Solutions

SDG No.: P5076

Instrument: P7

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	LOD mg/Kg	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB165717BL	SOLID			Batch Number:	PB165717			Prep Date:	12/18/2024	
	Aluminum	1.43	<1.43	U	0.71	1.43	P	12/19/2024	16:26	LB134024
	Antimony	0.14	<0.14	U	0.054	0.14	P	12/19/2024	16:26	LB134024
	Arsenic	0.071	<0.071	U	0.018	0.071	P	12/19/2024	16:26	LB134024
	Barium	0.71	<0.71	U	0.089	0.71	P	12/19/2024	16:26	LB134024
	Beryllium	0.071	<0.071	U	0.054	0.071	P	12/19/2024	16:26	LB134024
	Cadmium	0.071	<0.071	U	0.054	0.071	P	12/19/2024	16:26	LB134024
	Calcium	35.7	<35.7	U	13.6	35.7	P	12/19/2024	16:26	LB134024
	Chromium	0.14	<0.14	U	0.036	0.14	P	12/19/2024	16:26	LB134024
	Cobalt	0.071	<0.071	U	0.018	0.071	P	12/19/2024	16:26	LB134024
	Copper	0.14	<0.14	U	0.071	0.14	P	12/19/2024	16:26	LB134024
	Iron	3.57	<3.57	U	0.89	3.57	P	12/19/2024	16:26	LB134024
	Lead	0.071	<0.071	U	0.054	0.071	P	12/19/2024	16:26	LB134024
	Magnesium	35.7	<35.7	U	13.6	35.7	P	12/19/2024	16:26	LB134024
	Manganese	0.071	<0.071	U	0.036	0.071	P	12/19/2024	16:26	LB134024
	Nickel	0.071	<0.071	U	0.018	0.071	P	12/19/2024	16:26	LB134024
	Potassium	35.7	<35.7	U	13.6	35.7	P	12/19/2024	16:26	LB134024
	Selenium	0.36	<0.36	U	0.32	0.36	P	12/19/2024	16:26	LB134024
	Silver	0.071	<0.071	U	0.036	0.071	P	12/19/2024	16:26	LB134024
	Sodium	35.7	<35.7	U	17.9	35.7	P	12/19/2024	16:26	LB134024
	Thallium	0.071	<0.071	U	0.036	0.071	P	12/19/2024	16:26	LB134024
	Vanadium	0.36	<0.36	U	0.018	0.36	P	12/19/2024	16:26	LB134024
	Zinc	0.36	<0.36	U	0.11	0.36	P	12/19/2024	16:26	LB134024

Metals
- 4 -
INTERFERENCE CHECK SAMPLE

Client: Weston Solutions **SDG No.:** P5076
Contract: WEST04 **Lab Code:** CHEM **Case No.:** P5076 **SAS No.:** P5076
ICS Source: EPA **Instrument ID:** P7

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSA01	Aluminum	94400	100000	94	0	0	12/19/2024	16:10	LB134024
	Antimony	1.17	1.5	78	-2.5	5.5	12/19/2024	16:10	LB134024
	Arsenic	0.34	0.1	340	-1.9	2.1	12/19/2024	16:10	LB134024
	Barium	1.36	1.2	113	-18.8	21.2	12/19/2024	16:10	LB134024
	Beryllium	0.25			-2	2	12/19/2024	16:10	LB134024
	Cadmium	0.32	0.7	46	-1.3	2.7	12/19/2024	16:10	LB134024
	Calcium	103000	100000	103	0	0	12/19/2024	16:10	LB134024
	Chromium	20.9	21.0	100	17	25	12/19/2024	16:10	LB134024
	Cobalt	1.26	1.0	126	-1	3	12/19/2024	16:10	LB134024
	Copper	7.18	8.0	90	4	12	12/19/2024	16:10	LB134024
	Iron	107000	100000	107	0	0	12/19/2024	16:10	LB134024
	Lead	5.11	4.0	128	2	6	12/19/2024	16:10	LB134024
	Magnesium	100000	100000	100	0	0	12/19/2024	16:10	LB134024
	Manganese	7.91	7.0	113	5	9	12/19/2024	16:10	LB134024
	Nickel	5.54	6.0	92	4	8	12/19/2024	16:10	LB134024
	Potassium	100000	100000	100	0	0	12/19/2024	16:10	LB134024
	Selenium	0.23	0.3	77	-9.7	10	12/19/2024	16:10	LB134024
	Silver	0.030			-2	2	12/19/2024	16:10	LB134024
	Sodium	102000	100000	102	0	0	12/19/2024	16:10	LB134024
	Thallium	0.18			-2	2	12/19/2024	16:10	LB134024
	Vanadium	0.17	0.5	34	-9.5	10.5	12/19/2024	16:10	LB134024
	Zinc	14.5	11.0	132	7	15	12/19/2024	16:10	LB134024
ICSAB01	Aluminum	102000	100000	102	0	0	12/19/2024	16:13	LB134024
	Antimony	21.8	22.0	99	18	26	12/19/2024	16:13	LB134024
	Arsenic	21.7	19.0	114	16.2	21.9	12/19/2024	16:13	LB134024
	Barium	21.7	22.0	99	2	42	12/19/2024	16:13	LB134024
	Beryllium	21.1	19.0	111	16.2	21.9	12/19/2024	16:13	LB134024
	Cadmium	20.1	20.0	100	17	23	12/19/2024	16:13	LB134024
	Calcium	111000	100000	111	0	0	12/19/2024	16:13	LB134024
	Chromium	42.9	40.0	107	34	46	12/19/2024	16:13	LB134024
	Cobalt	21.8	20.0	109	17	23	12/19/2024	16:13	LB134024
	Copper	27.0	25.0	108	21	29	12/19/2024	16:13	LB134024
	Iron	114000	100000	114	0	0	12/19/2024	16:13	LB134024
	Lead	24.5	25.0	98	21.3	28.8	12/19/2024	16:13	LB134024
	Magnesium	107000	100000	107	0	0	12/19/2024	16:13	LB134024
	Manganese	29.0	27.0	107	23	31.1	12/19/2024	16:13	LB134024
	Nickel	26.3	24.0	110	20.4	27.6	12/19/2024	16:13	LB134024
	Potassium	108000	100000	108	0	0	12/19/2024	16:13	LB134024
	Selenium	19.7	19.0	104	9	29	12/19/2024	16:13	LB134024
	Silver	19.2	18.0	107	15.3	20.7	12/19/2024	16:13	LB134024
	Sodium	109000	100000	109	0	0	12/19/2024	16:13	LB134024
	Thallium	20.4	21.0	97	17.9	24.2	12/19/2024	16:13	LB134024

Metals

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INTERFERENCE CHECK SAMPLE

Client: Weston Solutions **SDG No.:** P5076
Contract: WEST04 **Lab Code:** CHEM **Case No.:** P5076 **SAS No.:** P5076
ICS Source: EPA **Instrument ID:** P7

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSAB01	Vanadium	20.5	19.0	108	9	29	12/19/2024	16:13	LB134024
	Zinc	33.0	29.0	114	25	33	12/19/2024	16:13	LB134024



METAL QC DATA

metals
- 5a -
MATRIX SPIKE SUMMARY

client: <u>Weston Solutions</u>	level: <u>low</u>	sdg no.: <u>P5076</u>
contract: <u>WEST04</u>	lab code: <u>CHEM</u>	case no.: <u>P5076</u> sas no.: <u>P5076</u>
matrix: <u>Solid</u>	sample id: <u>P5076-01</u>	client id: <u>TAPIAL2-SB021-7.5-120224-00-T1MS</u>
Percent Solids for Sample: 93.9	Spiked ID: P5076-01MS	Percent Solids for Spike Sample: 93.9

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 124	0.32		0.013		0.26	118		CV

metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: <u>Weston Solutions</u>	level: <u>low</u>	sdg no.: <u>P5076</u>
contract: <u>WEST04</u>	lab code: <u>CHEM</u>	case no.: <u>P5076</u> sas no.: <u>P5076</u>
matrix: <u>Solid</u>	sample id: <u>P5076-01</u>	client id: <u>TAPIAL2-SB021-7.5-120224-00-T1MSD</u>
Percent Solids for Sample: 93.9	Spiked ID: P5076-01MSD	Percent Solids for Spike Sample: 93.9

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 124	0.30		0.013		0.26	112		CV

metals
- 5a -
MATRIX SPIKE SUMMARY

client: <u>Weston Solutions</u>	level: <u>low</u>	sdg no.: <u>P5076</u>
contract: <u>WEST04</u>	lab code: <u>CHEM</u>	case no.: <u>P5076</u> sas no.: <u>P5076</u>
matrix: <u>Solid</u>	sample id: <u>P5117-01</u>	client id: <u>TAPIAL3-SB04I-10-120324-00-T1MS</u>
Percent Solids for Sample: 95.7	Spiked ID: P5117-01MS	Percent Solids for Spike Sample: 95.7

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	78 - 124	860	D	37.6	D	810	102		P
Antimony	mg/Kg	72 - 124	52.5	D	0.037	JD	40.5	130	N	P
Arsenic	mg/Kg	82 - 118	52.0	D	0.033	JD	40.5	128	N	P
Barium	mg/Kg	86 - 116	235	D	1.46	JD	200	115		P
Beryllium	mg/Kg	80 - 120	50.5	D	0.37	UD	40.5	125	N	P
Cadmium	mg/Kg	84 - 116	54.7	D	0.37	UD	40.5	135	N	P
Calcium	mg/Kg	86 - 118	4190	D	185	UD	4100	103		P
Chromium	mg/Kg	83 - 119	49.7	D	0.28	JD	40.5	122	N	P
Cobalt	mg/Kg	84 - 115	51.0	D	0.030	JD	40.5	126	N	P
Copper	mg/Kg	84 - 119	408	D	0.74	UD	410	101		P
Iron	mg/Kg	81 - 124	2460	D	71.1	D	2000	118		P
Lead	mg/Kg	84 - 118	191	D	0.19	JD	200	94		P
Magnesium	mg/Kg	80 - 123	3970	D	185	UD	4100	98		P
Manganese	mg/Kg	85 - 116	370	D	0.60	D	410	91		P
Nickel	mg/Kg	84 - 119	50.3	D	0.37	UD	40.5	124	N	P
Potassium	mg/Kg	85 - 119	2240	D	185	UD	2000	110		P
Selenium	mg/Kg	80 - 119	52.5	D	1.85	UD	40.5	129	N	P
Silver	mg/Kg	83 - 118	1.08	D	0.37	UD	40.5	3	N	P
Sodium	mg/Kg	79 - 125	3990	D	185	UD	4100	98		P
Thallium	mg/Kg	83 - 118	49.8	D	0.37	UD	40.5	123	N	P
Vanadium	mg/Kg	82 - 116	50.4	D	0.30	JD	40.5	124	N	P
Zinc	mg/Kg	82 - 119	391	D	1.85	UD	410	96		P

metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: Weston Solutions **level:** low **sdg no.:** P5076
contract: WEST04 **lab code:** CHEM **case no.:** P5076 **sas no.:** P5076
matrix: Solid **sample id:** P5117-01 **client id:** TAPIAL3-SB04I-10-120324-00-T1MSD
Percent Solids for Sample: 95.7 **Spiked ID:** P5117-01MSD **Percent Solids for Spike Sample:** 95.7

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	78 - 124	940	D	37.6	D	870	104		P
Antimony	mg/Kg	72 - 124	55.5	D	0.037	JD	43.5	127	N	P
Arsenic	mg/Kg	82 - 118	56.7	D	0.033	JD	43.5	130	N	P
Barium	mg/Kg	86 - 116	250	D	1.46	JD	220	114		P
Beryllium	mg/Kg	80 - 120	54.6	D	0.37	UD	43.5	125	N	P
Cadmium	mg/Kg	84 - 116	58.6	D	0.37	UD	43.5	135	N	P
Calcium	mg/Kg	86 - 118	4470	D	185	UD	4400	102		P
Chromium	mg/Kg	83 - 119	54.1	D	0.28	JD	43.5	124	N	P
Cobalt	mg/Kg	84 - 115	55.4	D	0.030	JD	43.5	127	N	P
Copper	mg/Kg	84 - 119	442	D	0.74	UD	440	102		P
Iron	mg/Kg	81 - 124	2670	D	71.1	D	2200	119		P
Lead	mg/Kg	84 - 118	207	D	0.19	JD	220	95		P
Magnesium	mg/Kg	80 - 123	4340	D	185	UD	4400	100		P
Manganese	mg/Kg	85 - 116	400	D	0.60	D	440	92		P
Nickel	mg/Kg	84 - 119	55.2	D	0.37	UD	43.5	127	N	P
Potassium	mg/Kg	85 - 119	2440	D	185	UD	2200	112		P
Selenium	mg/Kg	80 - 119	56.2	D	1.85	UD	43.5	129	N	P
Silver	mg/Kg	83 - 118	1.17	D	0.37	UD	43.5	3	N	P
Sodium	mg/Kg	79 - 125	4350	D	185	UD	4400	100		P
Thallium	mg/Kg	83 - 118	54.3	D	0.37	UD	43.5	125	N	P
Vanadium	mg/Kg	82 - 116	54.6	D	0.30	JD	43.5	125	N	P
Zinc	mg/Kg	82 - 119	425	D	1.85	UD	440	98		P

Metals
- 5b -
POST DIGEST SPIKE SUMMARY

Client: <u>Weston Solutions</u>	SDG No.: <u>P5076</u>	
Contract: <u>WEST04</u>	Lab Code: <u>CHEM</u>	Case No.: <u>P5076</u> SAS No.: <u>P5076</u>
Matrix: <u>Solid</u>	Level: <u>LOW</u>	Client ID: <u>TAPIAL3-SB04I-10-120324-00-T1A</u>
Sample ID: <u>P5117-01</u>	Spiked ID: <u>P5117-01A</u>	

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Antimony	mg/Kg	72 - 124	47.5	D	0.037	JD	37.1	128		P
Arsenic	mg/Kg	82 - 118	48.9	D	0.033	JD	37.1	132		P
Beryllium	mg/Kg	80 - 120	46.7	D	0.37	UD	37.1	126		P
Cadmium	mg/Kg	84 - 116	49.9	D	0.37	UD	37.1	134		P
Chromium	mg/Kg	83 - 119	46.0	D	0.28	JD	37.1	123		P
Cobalt	mg/Kg	84 - 115	47.3	D	0.030	JD	37.1	127		P
Nickel	mg/Kg	84 - 119	46.7	D	0.37	UD	37.1	126		P
Selenium	mg/Kg	80 - 119	48.2	D	1.85	UD	37.1	130		P
Silver	mg/Kg	83 - 118	0.99	D	0.37	UD	37.1	3		P
Thallium	mg/Kg	83 - 118	46.2	D	0.37	UD	37.1	124		P
Vanadium	mg/Kg	82 - 116	46.7	D	0.30	JD	37.1	125		P

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client:	<u>Weston Solutions</u>	Level:	<u>LOW</u>	SDG No.:	<u>P5076</u>
Contract:	<u>WEST04</u>	Lab Code:	<u>CHEM</u>	Case No.:	<u>P5076</u>
Matrix:	<u>Solid</u>	Sample ID:	<u>P5076-01</u>	Client ID:	<u>TAPIAL2-SB021-7.5-120224-00-T1DUP</u>
Percent Solids for Sample:	93.9	Duplicate ID	P5076-01DUP	Percent Solids for Spike Sample:	93.9

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	mg/Kg	20	0.013		0.011	J	17		CV

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client:	<u>Weston Solutions</u>	Level:	<u>LOW</u>	SDG No.:	<u>P5076</u>
Contract:	<u>WEST04</u>	Lab Code:	<u>CHEM</u>	Case No.:	<u>P5076</u>
Matrix:	<u>Solid</u>	Sample ID:	<u>P5076-01MS</u>	Client ID:	<u>TAPIAL2-SB021-7.5-120224-00-T1MSD</u>
Percent Solids for Sample:	93.9	Duplicate ID	P5076-01MSD	Percent Solids for Spike Sample:	93.9

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	mg/Kg	20	0.32		0.30		5		CV

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: Weston Solutions **Level:** LOW **SDG No.:** P5076
Contract: WEST04 **Lab Code:** CHEM **Case No.:** P5076 **SAS No.:** P5076
Matrix: Solid **Sample ID:** P5117-01 **Client ID:** TAPIAL3-SB04I-10-120324-00-T1DUP
Percent Solids for Sample: 95.7 **Duplicate ID** P5117-01DUP **Percent Solids for Spike Sample:** 95.7

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	mg/Kg	20	37.6	D	37.7	D	0		P
Antimony	mg/Kg	20	0.037	JD	0.72	UD			P
Arsenic	mg/Kg	20	0.033	JD	0.36	UD			P
Barium	mg/Kg	20	1.46	JD	1.45	JD	1		P
Beryllium	mg/Kg	20	0.37	UD	0.36	UD			P
Cadmium	mg/Kg	20	0.37	UD	0.36	UD			P
Calcium	mg/Kg	20	185	UD	179	UD			P
Chromium	mg/Kg	20	0.28	JD	0.27	JD	6		P
Cobalt	mg/Kg	20	0.030	JD	0.36	UD			P
Copper	mg/Kg	20	0.74	UD	0.72	UD			P
Iron	mg/Kg	20	71.1	D	68.5	D	4		P
Lead	mg/Kg	20	0.19	JD	0.14	JD	33		P
Magnesium	mg/Kg	20	185	UD	179	UD			P
Manganese	mg/Kg	20	0.60	D	0.49	D	20		P
Nickel	mg/Kg	20	0.37	UD	0.36	UD			P
Potassium	mg/Kg	20	185	UD	179	UD			P
Selenium	mg/Kg	20	1.85	UD	1.79	UD			P
Silver	mg/Kg	20	0.37	UD	0.36	UD			P
Sodium	mg/Kg	20	185	UD	179	UD			P
Thallium	mg/Kg	20	0.37	UD	0.36	UD			P
Vanadium	mg/Kg	20	0.30	JD	0.29	JD	4		P
Zinc	mg/Kg	20	1.85	UD	1.79	UD			P

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: Weston Solutions **Level:** LOW **SDG No.:** P5076
Contract: WEST04 **Lab Code:** CHEM **Case No.:** P5076 **SAS No.:** P5076
Matrix: Solid **Sample ID:** P5117-01MS **Client ID:** TAPIAL3-SB04I-10-120324-00-T1MSD
Percent Solids for Sample: 95.7 **Duplicate ID** P5117-01MSD **Percent Solids for Spike Sample:** 95.7

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	mg/Kg	20	860	D	940	D	9		P
Antimony	mg/Kg	20	52.5	D	55.5	D	6		P
Arsenic	mg/Kg	20	52.0	D	56.7	D	9		P
Barium	mg/Kg	20	235	D	250	D	6		P
Beryllium	mg/Kg	20	50.5	D	54.6	D	8		P
Cadmium	mg/Kg	20	54.7	D	58.6	D	7		P
Calcium	mg/Kg	20	4190	D	4470	D	6		P
Chromium	mg/Kg	20	49.7	D	54.1	D	8		P
Cobalt	mg/Kg	20	51.0	D	55.4	D	8		P
Copper	mg/Kg	20	408	D	442	D	8		P
Iron	mg/Kg	20	2460	D	2670	D	8		P
Lead	mg/Kg	20	191	D	207	D	8		P
Magnesium	mg/Kg	20	3970	D	4340	D	9		P
Manganese	mg/Kg	20	370	D	400	D	8		P
Nickel	mg/Kg	20	50.3	D	55.2	D	9		P
Potassium	mg/Kg	20	2240	D	2440	D	9		P
Selenium	mg/Kg	20	52.5	D	56.2	D	7		P
Silver	mg/Kg	20	1.08	D	1.17	D	8		P
Sodium	mg/Kg	20	3990	D	4350	D	9		P
Thallium	mg/Kg	20	49.8	D	54.3	D	9		P
Vanadium	mg/Kg	20	50.4	D	54.6	D	8		P
Zinc	mg/Kg	20	391	D	425	D	8		P

Metals

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: Weston Solutions **SDG No.:** P5076
Contract: WEST04 **Lab Code:** CHEM **Case No.:** P5076 **SAS No.:** P5076

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB165448BS Mercury	mg/Kg	0.27	0.29		106	80 - 124	CV

Metals

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: Weston Solutions **SDG No.:** P5076
Contract: WEST04 **Lab Code:** CHEM **Case No.:** P5076 **SAS No.:** P5076

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB165717BS							
Aluminum	mg/Kg	710	707		100	78 - 124	P
Antimony	mg/Kg	35.7	37.4		105	72 - 124	P
Arsenic	mg/Kg	35.7	36.7		103	82 - 118	P
Barium	mg/Kg	180	185		103	86 - 116	P
Beryllium	mg/Kg	35.7	35.5		99	80 - 120	P
Cadmium	mg/Kg	35.7	37.5		105	84 - 116	P
Calcium	mg/Kg	3600	3700		103	86 - 118	P
Chromium	mg/Kg	35.7	36.7		103	83 - 119	P
Cobalt	mg/Kg	35.7	36.4		102	84 - 115	P
Copper	mg/Kg	360	367		102	84 - 119	P
Iron	mg/Kg	1800	1870		104	81 - 124	P
Lead	mg/Kg	180	182		101	84 - 118	P
Magnesium	mg/Kg	3600	3570		99	80 - 123	P
Manganese	mg/Kg	360	362		101	85 - 116	P
Nickel	mg/Kg	35.7	35.6		100	84 - 119	P
Potassium	mg/Kg	1800	1790		99	85 - 119	P
Selenium	mg/Kg	35.7	37.5		105	80 - 119	P
Silver	mg/Kg	35.7	38.4		108	83 - 118	P
Sodium	mg/Kg	3600	3620		101	79 - 125	P
Thallium	mg/Kg	35.7	36.6		102	83 - 118	P
Vanadium	mg/Kg	35.7	36.2		101	82 - 116	P
Zinc	mg/Kg	360	366		102	82 - 119	P

FORM 8A

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Client: Weston Solutions

Contract: WEST04

Lab Code: CHEM Case no.: P5076

Sas No.: P5076 SDG No.: P5076

Instrument ID: P7

Start Date : 12/19/2024

Run Number: LB134024

End Date : 12/19/2024

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Non-Collision Cell									
			Element 6Li	Q	Element 45Sc	Q	Element 89Y	Q	Element 103Rh	Q	Element 159Tb	Q
S0	S0	1504	100		100		100		100		100	
S2	S2	1510	102		103		103		103		102	
S3	S3	1514	104		102		102		101		103	
S4	S4	1517	101		96		96		96		101	
S5	S5	1519	99		87		89		88		97	
S6	S6	1522	97		82		85		83		96	
S7	S7	1525	95		82		86		82		97	
S8	S8	1528	94		84		86		78		96	
ICV01	ICV01	1549	104		95		95		96		100	
LLICV	LLICV	1604	101		96		96		97		100	
ICB01	ICB01	1607	105		97		98		99		102	
ICSA01	ICSA01	1610	98		91		94		89		102	
ICSAB01	ICSAB01	1613	97		92		96		90		104	
CCV01	CCV01	1616	95		89		92		86		101	
CCB01	CCB01	1619	99		90		93		93		101	
CRI	CRI	1623	99		91		94		95		102	
PB165717BL	PB165717BL	1626	100		93		96		96		102	
PB165717BS	PB165717BS	1635	100		89		91		89		100	
ZZZZZZ	ZZZZZZ	1639										
P5117-01DUP	TAPIAL3-SB01	1643	98		89		92		92		99	
P5117-01L	TAPIAL3-SB01	1646	99		91		93		95		101	
P5117-01MS	TAPIAL3-SB01	1649	101		93		95		95		102	
P5117-01MSD	TAPIAL3-SB01	1652	102		92		94		94		102	
P5117-01A	TAPIAL3-SB01	1655	102		91		94		94		102	
CCV02	CCV02	1701	98		85		88		82		97	
CCB02	CCB02	1703	100		86		89		90		98	
ZZZZZZ	ZZZZZZ	1707										
ZZZZZZ	ZZZZZZ	1711										
P5076-01	TAPIAL2-SB01	1714	103		96		98		97		103	
CCV03	CCV03	1720	99		88		89		83		98	
CCB03	CCB03	1723	101		87		90		91		98	

Internal Standard %RI Limit: 30 - 120

FORM 8A

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Client: Weston Solutions

Contract: WEST04

Lab Code: CHEM Case no.: P5076

Sas No.: P5076 SDG No.: P5076

Instrument ID: P7

Start Date : 12/19/2024

Run Number: LB134024

End Date : 12/19/2024

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Collision Cell									
			Element 45Sc	Q	Element 89Y	Q	Element 103Rh	Q	Element 159Tb	Q	Element 165Ho	Q
S0	S0	1504	100		100		100		100		100	
S2	S2	1510	103		103		103		103		103	
S3	S3	1514	99		100		100		102		103	
S4	S4	1517	90		92		93		98		101	
S5	S5	1519	81		86		87		97		98	
S6	S6	1522	80		85		85		97		99	
S7	S7	1525	81		86		85		98		100	
S8	S8	1528	87		89		82		96		98	
ICV01	ICV01	1549	95		97		98		104		104	
LLICV	LLICV	1604	97		98		100		102		104	
ICB01	ICB01	1607	98		100		100		103		104	
ICSA01	ICSA01	1610	88		94		91		103		104	
ICSAB01	ICSAB01	1613	88		93		90		102		103	
CCV01	CCV01	1616	87		91		86		100		101	
CCB01	CCB01	1619	89		94		96		102		103	
CRI	CRI	1623	91		95		97		102		104	
PB165717BL	PB165717BL	1626	92		96		99		103		105	
PB165717BS	PB165717BS	1635	87		91		91		101		103	
ZZZZZZ	ZZZZZZ	1639										
P5117-01DUP	TAPIAL3-SB01	1643	89		93		97		102		103	
P5117-01L	TAPIAL3-SB01	1646	91		95		98		103		105	
P5117-01MS	TAPIAL3-SB01	1649	91		96		97		103		105	
P5117-01MSD	TAPIAL3-SB01	1652	89		94		96		103		105	
P5117-01A	TAPIAL3-SB01	1655	89		92		95		102		103	
CCV02	CCV02	1701	84		88		84		98		100	
CCB02	CCB02	1703	87		92		95		102		103	
ZZZZZZ	ZZZZZZ	1707										
ZZZZZZ	ZZZZZZ	1711										
P5076-01	TAPIAL2-SB01	1714	93		98		99		103		104	
CCV03	CCV03	1720	83		87		83		98		98	
CCB03	CCB03	1723	87		92		95		101		102	

Internal Standard %RI Limit: 30 - 120

FORM 8B

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Lab Name: Weston Solutions
Lab Code: CHEM Case no.: P5076
Instrument ID: P7
Run Number: LB134024

Contract: WEST04
Sas No.: P5076 SDG No.: P5076
Start Date : 12/19/2024
End Date : 12/19/2024

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Non-Collision Cell									
			Element 165Ho	Q	Element 209Bi	Q	Element	Q	Element	Q	Element	Q
S0	S0	1504	100		100							
S2	S2	1510	102		105							
S3	S3	1514	103		106							
S4	S4	1517	101		104							
S5	S5	1519	97		102							
S6	S6	1522	97		101							
S7	S7	1525	98		100							
S8	S8	1528	97		91							
ICV01	ICV01	1549	101		106							
LLICV	LLICV	1604	99		104							
ICB01	ICB01	1607	102		106							
ICSA01	ICSA01	1610	103		102							
ICSAB01	ICSAB01	1613	104		103							
CCV01	CCV01	1616	102		98							
CCB01	CCB01	1619	101		107							
CRI	CRI	1623	102		107							
PB165717BL	PB165717BL	1626	103		108							
PB165717BS	PB165717BS	1635	102		104							
ZZZZZZ	ZZZZZZ	1639										
P5117-01DUP	TAPIAL3-SB04	1643	99		105							
P5117-01L	TAPIAL3-SB04	1646	101		107							
P5117-01MS	TAPIAL3-SB04	1649	102		107							
P5117-01MSD	TAPIAL3-SB04	1652	103		107							
P5117-01A	TAPIAL3-SB04	1655	102		106							
CCV02	CCV02	1701	99		98							
CCB02	CCB02	1703	98		105							
ZZZZZZ	ZZZZZZ	1707										
ZZZZZZ	ZZZZZZ	1711										
P5076-01	TAPIAL2-SB02	1714	103		106							
CCV03	CCV03	1720	99		97							
CCB03	CCB03	1723	99		107							

FORM 8B

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Lab Name: Weston Solutions
Lab Code: CHEM Case no.: P5076
Instrument ID: P7
Run Number: LB134024

Contract: WEST04
Sas No.: P5076 SDG No.: P5076
Start Date : 12/19/2024
End Date : 12/19/2024

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Collision Cell									
			Element 209Bi	Q	Element	Q	Element	Q	Element	Q	Element	Q
S0	S0	1504	100									
S2	S2	1510	104									
S3	S3	1514	104									
S4	S4	1517	101									
S5	S5	1519	100									
S6	S6	1522	99									
S7	S7	1525	98									
S8	S8	1528	89									
ICV01	ICV01	1549	106									
LLICV	LLICV	1604	105									
ICB01	ICB01	1607	106									
ICSA01	ICSA01	1610	101									
ICSAB01	ICSAB01	1613	100									
CCV01	CCV01	1616	96									
CCB01	CCB01	1619	106									
CRI	CRI	1623	107									
PB165717BL	PB165717BL	1626	107									
PB165717BS	PB165717BS	1635	104									
ZZZZZZ	ZZZZZZ	1639										
P5117-01DUP	TAPIAL3-SB04	1643	106									
P5117-01L	TAPIAL3-SB04	1646	108									
P5117-01MS	TAPIAL3-SB04	1649	107									
P5117-01MSD	TAPIAL3-SB04	1652	106									
P5117-01A	TAPIAL3-SB04	1655	105									
CCV02	CCV02	1701	95									
CCB02	CCB02	1703	106									
ZZZZZZ	ZZZZZZ	1707										
ZZZZZZ	ZZZZZZ	1711										
P5076-01	TAPIAL2-SB02	1714	107									
CCV03	CCV03	1720	94									
CCB03	CCB03	1723	107									

Metals
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ICP SERIAL DILUTIONS

SAMPLE NO.

TAPIAL2-SB021-7.5-120224-00-T1L

Lab Name: Chemtech Consulting Group **Contract:** WEST04
Lab Code: CHEM **Lb No.:** lb133794 **Lab Sample ID :** P5076-01L **SDG No.:** P5076
Matrix (soil/water): Solid **Level (low/med):** LOW
Concentration Units: mg/Kg

Analyte	Initial Sample Result (I) C	Serial Dilution Result (S) C	% Differ- ence	Q	M
Mercury	0.013	0.065 U	100.0		CV

Metals
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ICP SERIAL DILUTIONS

SAMPLE NO.

TAPIAL3-SB04I-10-120324-00-T1L

Lab Name: Chemtech Consulting Group **Contract:** WEST04
Lab Code: CHEM **Lb No.:** lb134024 **Lab Sample ID :** P5117-01L **SDG No.:** P5076
Matrix (soil/water): Solid **Level (low/med):** LOW
Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)		Serial Dilution Result (S)		% Differ- ence	Q	M
		C		C			
Aluminum	37.6	D	30.3	JD	19		P
Antimony	0.037	JD	3.71	UD	100		P
Arsenic	0.033	JD	1.85	UD	100		P
Barium	1.46	JD	1.28	JD	12		P
Beryllium	0.37	UD	1.85	UD	100		P
Cadmium	0.37	UD	1.85	UD			P
Calcium	185	UD	926	UD	89		P
Chromium	0.28	JD	3.71	UD	16		P
Cobalt	0.030	JD	1.85	UD	100		P
Copper	0.74	UD	3.71	UD	100		P
Iron	71.1	D	61.8	JD	13		P
Lead	0.19	JD	1.85	UD	90		P
Magnesium	185	UD	926	UD	100		P
Manganese	0.60	D	1.85	UD	60		P
Nickel	0.37	UD	1.85	UD	100		P
Potassium	185	UD	926	UD	100		P
Selenium	1.85	UD	9.26	UD	100		P
Silver	0.37	UD	1.85	UD	100		P
Sodium	185	UD	926	UD	71		P
Thallium	0.37	UD	1.85	UD	100		P
Vanadium	0.30	JD	0.28	JD	9		P
Zinc	1.85	UD	9.26	UD	68		P



METAL PREPARATION & INSTRUMENT DATA

METAL
PREPARATION &
ANALYICAL
SUMMARY

Metals

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SAMPLE PREPARATION SUMMARY

Client:	<u>Weston Solutions</u>	SDG No.:	<u>P5076</u>
Contract:	<u>WEST04</u>	Lab Code:	<u>CHEM</u>
		Method:	<u></u>
		Case No.:	<u>P5076</u>
		SAS No.:	<u>P5076</u>

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB165448							
P5076-01	TAPIAL2-SB02I-7.5-120224-00-T1	SAM	SOLID	12/06/2024	0.57	35.0	93.90
P5076-01DUP	TAPIAL2-SB02I-7.5-120224-00-T1DUP	DUP	SOLID	12/06/2024	0.57	35.0	93.90
P5076-01MS	TAPIAL2-SB02I-7.5-120224-00-T1MS	MS	SOLID	12/06/2024	0.58	35.0	93.90
P5076-01MSD	TAPIAL2-SB02I-7.5-120224-00-T1MSD	MSD	SOLID	12/06/2024	0.58	35.0	93.90
PB165448BL	PB165448BL	MB	SOLID	12/06/2024	0.52	35.0	100.00
PB165448BS	PB165448BS	LCS	SOLID	12/06/2024	0.52	35.0	100.00

Metals
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SAMPLE PREPARATION SUMMARY

Client:

Weston Solutions

Contract:

WEST04

SDG No.:

P5076

Lab Code:

CHEM

Method:

Case No.:

P5076

SAS No.:

P5076

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB165717							
P5076-01	TAPIAL2-SB02I-7.5-120224-00-T1	SAM	SOLID	12/18/2024	1.37	100.0	93.90
P5117-01DUP	TAPIAL3-SB04I-10-120324-00-T1DUP	DUP	SOLID	12/18/2024	1.46	100.0	95.70
P5117-01MS	TAPIAL3-SB04I-10-120324-00-T1MS	MS	SOLID	12/18/2024	1.29	100.0	95.70
P5117-01MSD	TAPIAL3-SB04I-10-120324-00-T1MSD	MSD	SOLID	12/18/2024	1.20	100.0	95.70
PB165717BL	PB165717BL	MB	SOLID	12/18/2024	1.40	100.0	100.00
PB165717BS	PB165717BS	LCS	SOLID	12/18/2024	1.40	100.0	100.00

metals
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ANALYSIS RUN LOG

Client: Weston Solutions **Contract:** WEST04

Lab code: CHEM **Case no.:** P5076 **Sas no.:** P5076 **Sdg no.:** P5076

Instrument id number: **Method:** **Run number:** LB133794

Start date: 12/06/2024 **End date:** 12/06/2024

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1624	HG
S0.2	S0.2	1	1626	HG
S2.5	S2.5	1	1629	HG
S5	S5	1	1631	HG
S7.5	S7.5	1	1633	HG
S10	S10	1	1636	HG
ICV12	ICV12	1	1642	HG
ICB12	ICB12	1	1644	HG
CCV01	CCV01	1	1649	HG
CCB01	CCB01	1	1651	HG
CRA	CRA	1	1656	HG
PB165448BL	PB165448BL	1	1706	HG
PB165448BS	PB165448BS	1	1711	HG
P5076-01	TAPIAL2-SB02I-7.5-120224-00	1	1726	HG
P5076-01DUP	TAPIAL2-SB02I-7.5-120224-00	1	1730	HG
P5076-01MS	TAPIAL2-SB02I-7.5-120224-00	1	1732	HG
CCV02	CCV02	1	1735	HG
CCB02	CCB02	1	1737	HG
P5076-01MSD	TAPIAL2-SB02I-7.5-120224-00	1	1742	HG
CCV03	CCV03	1	1805	HG
CCB03	CCB03	1	1807	HG
P5076-01L	TAPIAL2-SB02I-7.5-120224-00	5	1816	HG
CCV04	CCV04	1	1821	HG
CCB04	CCB04	1	1829	HG

metals
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ANALYSIS RUN LOG

Client: Weston Solutions **Contract:** WEST04

Lab code: CHEM **Case no.:** P5076 **Sas no.:** P5076 **Sdg no.:** P5076

Instrument id number: **Method:** **Run number:** LB134024

Start date: 12/19/2024 **End date:** 12/19/2024

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1504	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S2	S2	1	1510	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S3	S3	1	1514	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S4	S4	1	1517	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S5	S5	1	1519	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S6	S6	1	1522	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S7	S7	1	1525	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S8	S8	1	1528	Al,Ca,Fe,K,Mg,Na
ICV01	ICV01	1	1549	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
LLICV	LLICV	1	1604	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICB01	ICB01	1	1607	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSA01	ICSA01	1	1610	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSAB01	ICSAB01	1	1613	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV01	CCV01	1	1616	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB01	CCB01	1	1619	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CRI	CRI	1	1623	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB165717BL	PB165717BL	1	1626	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB165717BS	PB165717BS	1	1635	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P5117-01DUP	TAPIAL3-SB04I-10-120324-00-	5	1643	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P5117-01L	TAPIAL3-SB04I-10-120324-00-	25	1646	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P5117-01MS	TAPIAL3-SB04I-10-120324-00-	5	1649	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P5117-01MSD	TAPIAL3-SB04I-10-120324-00-	5	1652	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P5117-01A	TAPIAL3-SB04I-10-120324-00-	5	1655	Ag,As,Be,Cd,Co,Cr,Ni,Sb,Se,Tl,V
CCV02	CCV02	1	1701	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB02	CCB02	1	1703	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
P5076-01	TAPIAL2-SB02I-7.5-120224-00-	5	1714	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV03	CCV03	1	1720	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB03	CCB03	1	1723	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn