

metals
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MATRIX SPIKE SUMMARY

client: Weston Solutions, Inc. **level:** low **sdg no.:** Q1664
contract: ROYF02 **lab code:** CHEM **case no.:** Q1664 **sas no.:** Q1664
matrix: Solid **sample id:** Q1664-01 **client id:** P001-BBDGA-001-01MS
Percent Solids for Sample: 91.8 **Spiked ID:** Q1664-02 **Percent Solids for Spike Sample:** 91.8

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	16200		14900		100	1316		P
Antimony	mg/Kg	75 - 125	11.7		2.34	U	41.9	28	N	P
Arsenic	mg/Kg	75 - 125	39.1		2.10		41.9	88		P
Barium	mg/Kg	75 - 125	18.6		12.3		10.5	59	N	P
Beryllium	mg/Kg	75 - 125	8.28		0.36		10.5	75		P
Cadmium	mg/Kg	75 - 125	9.67		0.29		10.5	89		P
Calcium	mg/Kg	75 - 125	22300		19700		52.4	4951		P
Chromium	mg/Kg	75 - 125	48.3		22.4		20.9	124		P
Cobalt	mg/Kg	75 - 125	41.9		30.9		10.5	105		P
Copper	mg/Kg	75 - 125	175		180		15.7	-29		P
Iron	mg/Kg	75 - 125	36300		33800		160	1578		P
Lead	mg/Kg	75 - 125	53.6		2.91		52.4	97		P
Magnesium	mg/Kg	75 - 125	30400		28800		100	1674		P
Manganese	mg/Kg	75 - 125	535		444		10.5	871		P
Mercury	mg/Kg	80 - 120	0.30		0.0090	J	0.27	107		CV
Nickel	mg/Kg	75 - 125	67.8		39.4		26.2	108		P
Potassium	mg/Kg	75 - 125	603		77.7	J	520	101		P
Selenium	mg/Kg	75 - 125	86.8		0.94	U	100	87		P
Silver	mg/Kg	75 - 125	4.01		0.34	J	3.9	94		P
Sodium	mg/Kg	75 - 125	1050		796		160	156		P
Thallium	mg/Kg	75 - 125	92.3		1.72	J	100	91		P
Vanadium	mg/Kg	75 - 125	67.1		48.9		15.7	116		P
Zinc	mg/Kg	75 - 125	48.1		37.3		10.5	103		P

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MATRIX SPIKE DUPLICATE SUMMARY

client: Weston Solutions, Inc. **level:** low **sdg no.:** Q1664
contract: ROYF02 **lab code:** CHEM **case no.:** Q1664 **sas no.:** Q1664
matrix: Solid **sample id:** Q1664-01 **client id:** P001-BBDGA-001-01MSD
Percent Solids for Sample: 91.8 **Spiked ID:** Q1664-03 **Percent Solids for Spike Sample:** 91.8

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	16300		14900		100	1409		P
Antimony	mg/Kg	75 - 125	10.6		2.34	U	40.2	26	N	P
Arsenic	mg/Kg	75 - 125	36.7		2.10		40.2	86		P
Barium	mg/Kg	75 - 125	20.6		12.3		10.0	83		P
Beryllium	mg/Kg	75 - 125	7.94		0.36		10.0	76		P
Cadmium	mg/Kg	75 - 125	9.04		0.29		10.0	88		P
Calcium	mg/Kg	75 - 125	19800		19700		50.2	221		P
Chromium	mg/Kg	75 - 125	43.2		22.4		20.1	103		P
Cobalt	mg/Kg	75 - 125	40.1		30.9		10.0	92		P
Copper	mg/Kg	75 - 125	114		180		15.1	-433		P
Iron	mg/Kg	75 - 125	34900		33800		150	719		P
Lead	mg/Kg	75 - 125	46.6		2.91		50.2	87		P
Magnesium	mg/Kg	75 - 125	30400		28800		100	1630		P
Manganese	mg/Kg	75 - 125	447		444		10.0	26		P
Mercury	mg/Kg	80 - 120	0.32		0.0090	J	0.27	114		CV
Nickel	mg/Kg	75 - 125	63.7		39.4		25.1	97		P
Potassium	mg/Kg	75 - 125	575		77.7	J	500	100		P
Selenium	mg/Kg	75 - 125	81.8		0.94	U	100	82		P
Silver	mg/Kg	75 - 125	3.68		0.34	J	3.8	88		P
Sodium	mg/Kg	75 - 125	1050		796		150	168		P
Thallium	mg/Kg	75 - 125	85.9		1.72	J	100	84		P
Vanadium	mg/Kg	75 - 125	66.8		48.9		15.1	118		P
Zinc	mg/Kg	75 - 125	50.2		37.3		10.0	129	N	P