

metals
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MATRIX SPIKE SUMMARY

client: Weston Solutions, Inc. **level:** low **sdg no.:** Q3447
contract: ROYF02 **lab code:** ACE
matrix: Solid **sample id:** Q3445-01 **client id:** EO-01-102325MS

Percent Solids for Sample: 91.8 **Spiked ID:** Q3445-01MS **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	8190		7880		92.3	334		P
Antimony	mg/Kg	75 - 125	11.7		2.55	U	36.9	32	N	P
Arsenic	mg/Kg	75 - 125	30.1		2.34		36.9	75		P
Barium	mg/Kg	75 - 125	39.4		31.4		9.2	87		P
Beryllium	mg/Kg	75 - 125	7.36		0.52		9.2	74	N	P
Cadmium	mg/Kg	75 - 125	9.42		0.56		9.2	96		P
Calcium	mg/Kg	75 - 125	3810		3340		46.2	1020		P
Chromium	mg/Kg	75 - 125	28.4		14.1		18.5	78		P
Cobalt	mg/Kg	75 - 125	18.5		9.55		9.2	97		P
Copper	mg/Kg	75 - 125	30.9		19.3		13.8	84		P
Iron	mg/Kg	75 - 125	15700		16500		140	-626		P
Lead	mg/Kg	75 - 125	58.5		16.0		46.2	92		P
Magnesium	mg/Kg	75 - 125	2520		2800		92.3	-310		P
Manganese	mg/Kg	75 - 125	324		274		9.2	541		P
Mercury	mg/Kg	80 - 120	0.24		0.024		0.27	80		CV
Nickel	mg/Kg	75 - 125	37.1		14.8		23.1	96		P
Potassium	mg/Kg	75 - 125	946		565		460	83		P
Selenium	mg/Kg	75 - 125	64.6		1.02	U	92.3	70	N	P
Silver	mg/Kg	75 - 125	0.46	U	0.51	U	3.5	0	N	P
Sodium	mg/Kg	75 - 125	888		837		140	37		P
Thallium	mg/Kg	75 - 125	93.8		2.04	U	92.3	102		P
Vanadium	mg/Kg	75 - 125	42.0		34.3		13.8	56	N	P
Zinc	mg/Kg	75 - 125	38.1		30.6		9.2	82		P

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MATRIX SPIKE DUPLICATE SUMMARY

client: <u>Weston Solutions, Inc.</u>	level: <u>low</u>	sdg no.: <u>Q3447</u>
contract: <u>ROYF02</u>		lab code: <u>ACE</u>
matrix: <u>Solid</u>	sample id: <u>Q3445-01</u>	client id: <u>EO-01-102325MSD</u>
Percent Solids for Sample: 91.8	Spiked ID: Q3445-01MSD	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	8320		7880		100	442		P
Antimony	mg/Kg	75 - 125	13.3		2.55	U	41.1	32	N	P
Arsenic	mg/Kg	75 - 125	33.2		2.34		41.1	75		P
Barium	mg/Kg	75 - 125	37.5		31.4		10.3	59	N	P
Beryllium	mg/Kg	75 - 125	8.13		0.52		10.3	74	N	P
Cadmium	mg/Kg	75 - 125	10.1		0.56		10.3	93		P
Calcium	mg/Kg	75 - 125	3140		3340		51.4	-399		P
Chromium	mg/Kg	75 - 125	29.9		14.1		20.6	77		P
Cobalt	mg/Kg	75 - 125	19.5		9.55		10.3	97		P
Copper	mg/Kg	75 - 125	33.0		19.3		15.4	89		P
Iron	mg/Kg	75 - 125	16800		16500		150	199		P
Lead	mg/Kg	75 - 125	62.8		16.0		51.4	91		P
Magnesium	mg/Kg	75 - 125	2700		2800		100	-105		P
Manganese	mg/Kg	75 - 125	271		274		10.3	-25		P
Mercury	mg/Kg	80 - 120	0.23		0.024		0.28	72	N	CV
Nickel	mg/Kg	75 - 125	38.8		14.8		25.7	93		P
Potassium	mg/Kg	75 - 125	971		565		510	80		P
Selenium	mg/Kg	75 - 125	72.5		1.02	U	100	72	N	P
Silver	mg/Kg	75 - 125	0.51	U	0.51	U	3.9	0	N	P
Sodium	mg/Kg	75 - 125	927		837		150	60		P
Thallium	mg/Kg	75 - 125	100		2.04	U	100	100		P
Vanadium	mg/Kg	75 - 125	50.0		34.3		15.4	102		P
Zinc	mg/Kg	75 - 125	40.7		30.6		10.3	99		P