

metals
- 5a -
MATRIX SPIKE SUMMARY

client: <u>Weston Solutions, Inc.</u>	level: <u>low</u>	sdg no.: <u>Q3177</u>
contract: <u>ROYF02</u>		lab code: <u>ACE</u>
matrix: <u>Water</u>	sample id: <u>Q3179-01</u>	client id: <u>EME-TS14-01MS</u>
Percent Solids for Sample: <u>NA</u>	Spiked ID: <u>Q3179-02</u>	Percent Solids for Spike Sample: <u>NA</u>

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/L	75 - 125	1220		283		1000	94		P
Antimony	ug/L	75 - 125	390		25.0	U	400	98		P
Arsenic	ug/L	75 - 125	382		10.0	U	400	96		P
Barium	ug/L	75 - 125	221		130		100	91		P
Beryllium	ug/L	75 - 125	91.7		3.00	U	100	92		P
Cadmium	ug/L	75 - 125	91.4		0.95	J	100	90		P
Calcium	ug/L	75 - 125	147000		152000		500	-854		P
Chromium	ug/L	75 - 125	191		3.87	J	200	94		P
Cobalt	ug/L	75 - 125	93.4		15.0	U	100	93		P
Copper	ug/L	75 - 125	143		4.32	J	150	92		P
Iron	ug/L	75 - 125	1400		51.1		1500	90		P
Lead	ug/L	75 - 125	444		6.00	U	500	89		P
Magnesium	ug/L	75 - 125	18800		18500		1000	34		P
Manganese	ug/L	75 - 125	3910		3940		100	-26		P
Mercury	ug/L	75 - 125	4.42		0.20	U	4.0	110		CV
Nickel	ug/L	75 - 125	232		2.26	J	250	92		P
Potassium	ug/L	75 - 125	15100		11200		5000	78		P
Selenium	ug/L	75 - 125	952		10.0	U	1000	95		P
Silver	ug/L	75 - 125	34.3		5.00	U	37.5	92		P
Sodium	ug/L	75 - 125	7040		5990		1500	70	N	P
Thallium	ug/L	75 - 125	832		20.0	U	1000	83		P
Vanadium	ug/L	75 - 125	141		20.0	U	150	94		P
Zinc	ug/L	75 - 125	159		64.5		100	95		P

metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: <u>Weston Solutions, Inc.</u>	level: <u>low</u>	sdg no.: <u>Q3177</u>
contract: <u>ROYF02</u>		lab code: <u>ACE</u>
matrix: <u>Water</u>	sample id: <u>Q3179-01</u>	client id: <u>EME-TS14-01MSD</u>
Percent Solids for Sample: <u>NA</u>	Spiked ID: <u>Q3179-03</u>	Percent Solids for Spike Sample: <u>NA</u>

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/L	75 - 125	1230		283		1000	95		P
Antimony	ug/L	75 - 125	396		25.0	U	400	99		P
Arsenic	ug/L	75 - 125	390		10.0	U	400	98		P
Barium	ug/L	75 - 125	222		130		100	92		P
Beryllium	ug/L	75 - 125	93.6		3.00	U	100	94		P
Cadmium	ug/L	75 - 125	92.9		0.95	J	100	92		P
Calcium	ug/L	75 - 125	149000		152000		500	-628		P
Chromium	ug/L	75 - 125	194		3.87	J	200	95		P
Cobalt	ug/L	75 - 125	94.8		15.0	U	100	95		P
Copper	ug/L	75 - 125	145		4.32	J	150	94		P
Iron	ug/L	75 - 125	1410		51.1		1500	90		P
Lead	ug/L	75 - 125	452		6.00	U	500	90		P
Magnesium	ug/L	75 - 125	18900		18500		1000	45		P
Manganese	ug/L	75 - 125	3950		3940		100	14		P
Mercury	ug/L	75 - 125	3.97		0.20	U	4.0	99		CV
Nickel	ug/L	75 - 125	236		2.26	J	250	93		P
Potassium	ug/L	75 - 125	15100		11200		5000	79		P
Selenium	ug/L	75 - 125	971		10.0	U	1000	97		P
Silver	ug/L	75 - 125	31.3		5.00	U	37.5	84		P
Sodium	ug/L	75 - 125	7060		5990		1500	71	N	P
Thallium	ug/L	75 - 125	891		20.0	U	1000	89		P
Vanadium	ug/L	75 - 125	145		20.0	U	150	97		P
Zinc	ug/L	75 - 125	161		64.5		100	97		P