

metals
- 5a -
MATRIX SPIKE SUMMARY

client: Weston Solutions **level:** low **sdg no.:** Q1588
contract: WEST04 **lab code:** CHEM **case no.:** Q1588 **sas no.:** Q1588
matrix: Water **sample id:** Q1553-03 **client id:** FRAC-TANK-FMI120MS
Percent Solids for Sample: NA **Spiked ID:** Q1553-03MS **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ug/L	82 - 119	2.78		0.28		4.0	63	N	CV

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MATRIX SPIKE DUPLICATE SUMMARY

client: Weston Solutions **level:** low **sdg no.:** Q1588
contract: WEST04 **lab code:** CHEM **case no.:** Q1588 **sas no.:** Q1588
matrix: Water **sample id:** Q1553-03 **client id:** FRAC-TANK-FMI120MSD
Percent Solids for Sample: NA **Spiked ID:** Q1553-03MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ug/L	82 - 119	2.87		0.28		4.0	65	N	CV

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client: Weston Solutions **level:** low **sdg no.:** Q1588
contract: WEST04 **lab code:** CHEM **case no.:** Q1588 **sas no.:** Q1588
matrix: Water **sample id:** Q1588-01 **client id:** TAPFTA-MW01D-031425-00-T1MS
Percent Solids for Sample: NA **Spiked ID:** Q1588-01MS **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/L	84 - 117	11700		2870		10000	89		P
Antimony	ug/L	85 - 117	477		0.27	J	500	95		P
Arsenic	ug/L	84 - 116	2.75	JD	2.55	JD	500	0	N	P
Barium	ug/L	86 - 114	2180		58.2		2500	85	N	P
Beryllium	ug/L	83 - 121	419		1.48		500	83		P
Cadmium	ug/L	87 - 115	438		1.00	U	500	88		P
Calcium	ug/L	87 - 118	47000		4350		50000	85	N	P
Chromium	ug/L	85 - 116	475		24.7		500	90		P
Cobalt	ug/L	86 - 115	460		4.32		500	91		P
Copper	ug/L	85 - 118	4140		18.3		5000	83	N	P
Iron	ug/L	87 - 118	29100		6310		25000	91		P
Lead	ug/L	88 - 115	2360		8.21		2500	94		P
Magnesium	ug/L	83 - 118	45400		893		50000	89		P
Manganese	ug/L	87 - 115	4250		81.9		5000	83	N	P
Nickel	ug/L	85 - 117	455		11.2		500	89		P
Potassium	ug/L	87 - 115	21700		1470		25000	81	N	P
Selenium	ug/L	80 - 120	495	D	25.0	UD	500	99		P
Silver	ug/L	85 - 116	64.2		1.00	U	500	13	N	P
Sodium	ug/L	85 - 117	59500		15300		50000	88		P
Thallium	ug/L	82 - 116	465		0.14	J	500	93		P
Vanadium	ug/L	86 - 115	570		86.5		500	97		P
Zinc	ug/L	83 - 119	4160		25.0		5000	83		P

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MATRIX SPIKE DUPLICATE SUMMARY

client: Weston Solutions **level:** low **sdg no.:** Q1588
contract: WEST04 **lab code:** CHEM **case no.:** Q1588 **sas no.:** Q1588
matrix: Water **sample id:** Q1588-01 **client id:** TAPFTA-MW01D-031425-00-T1MSD
Percent Solids for Sample: NA **Spiked ID:** Q1588-01MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/L	84 - 117	11700		2870		10000	88		P
Antimony	ug/L	85 - 117	486		0.27	J	500	97		P
Arsenic	ug/L	84 - 116	3.25	JD	2.55	JD	500	0	N	P
Barium	ug/L	86 - 114	2200		58.2		2500	86		P
Beryllium	ug/L	83 - 121	422		1.48		500	84		P
Cadmium	ug/L	87 - 115	438		1.00	U	500	88		P
Calcium	ug/L	87 - 118	48000		4350		50000	87		P
Chromium	ug/L	85 - 116	476		24.7		500	90		P
Cobalt	ug/L	86 - 115	460		4.32		500	91		P
Copper	ug/L	85 - 118	4120		18.3		5000	82	N	P
Iron	ug/L	87 - 118	28600		6310		25000	89		P
Lead	ug/L	88 - 115	2410		8.21		2500	96		P
Magnesium	ug/L	83 - 118	45200		893		50000	89		P
Manganese	ug/L	87 - 115	4220		81.9		5000	83	N	P
Nickel	ug/L	85 - 117	455		11.2		500	89		P
Potassium	ug/L	87 - 115	21800		1470		25000	81	N	P
Selenium	ug/L	80 - 120	507	D	25.0	UD	500	101		P
Silver	ug/L	85 - 116	60.6		1.00	U	500	12	N	P
Sodium	ug/L	85 - 117	59500		15300		50000	88		P
Thallium	ug/L	82 - 116	468		0.14	J	500	94		P
Vanadium	ug/L	86 - 115	568		86.5		500	96		P
Zinc	ug/L	83 - 119	4130		25.0		5000	82	N	P