

metals
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MATRIX SPIKE SUMMARY

client: APTIM **level:** low **sdg no.:** Q1543
contract: SHAW18 **lab code:** CHEM **case no.:** Q1543 **sas no.:** Q1543
matrix: Water **sample id:** Q1543-02 **client id:** ISB878MW05MS
Percent Solids for Sample: NA **Spiked ID:** Q1543-02MS **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	75 - 125	1200		841		1000	36	N	P
Antimony	ug/L	75 - 125	408		25.0	U	400	102		P
Arsenic	ug/L	75 - 125	397		10.0	U	400	99		P
Barium	ug/L	75 - 125	249		165		100	84		P
Beryllium	ug/L	75 - 125	91.3		0.40	J	100	91		P
Cadmium	ug/L	75 - 125	93.7		3.00	U	100	94		P
Calcium	ug/L	75 - 125	27700		27500		500	27		P
Chromium	ug/L	75 - 125	198		1.42	J	200	98		P
Cobalt	ug/L	75 - 125	106		14.5	J	100	91		P
Copper	ug/L	75 - 125	143		10.0	U	150	95		P
Iron	ug/L	75 - 125	2170		3290		1500	-74	N	P
Lead	ug/L	75 - 125	455		6.00	U	500	91		P
Magnesium	ug/L	75 - 125	17000		16400		1000	58		P
Manganese	ug/L	75 - 125	215		143		100	72	N	P
Nickel	ug/L	75 - 125	240		7.44	J	250	93		P
Potassium	ug/L	75 - 125	7570		2280		5000	106		P
Selenium	ug/L	75 - 125	938		10.0	U	1000	94		P
Silver	ug/L	75 - 125	36.0		5.00	U	37.5	96		P
Sodium	ug/L	75 - 125	141000		140000		1500	61		P
Thallium	ug/L	75 - 125	925		20.0	U	1000	92		P
Vanadium	ug/L	75 - 125	141		3.55	J	150	92		P
Zinc	ug/L	75 - 125	117		18.1	J	100	99		P

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MATRIX SPIKE DUPLICATE SUMMARY

client: APTIM **level:** low **sdg no.:** Q1543
contract: SHAW18 **lab code:** CHEM **case no.:** Q1543 **sas no.:** Q1543
matrix: Water **sample id:** Q1543-02 **client id:** ISB878MW05MSD
Percent Solids for Sample: NA **Spiked ID:** Q1543-02MSD **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	75 - 125	1200		841		1000	36	N	P
Antimony	ug/L	75 - 125	407		25.0	U	400	102		P
Arsenic	ug/L	75 - 125	395		10.0	U	400	99		P
Barium	ug/L	75 - 125	245		165		100	80		P
Beryllium	ug/L	75 - 125	89.1		0.40	J	100	89		P
Cadmium	ug/L	75 - 125	93.2		3.00	U	100	93		P
Calcium	ug/L	75 - 125	27200		27500		500	-61		P
Chromium	ug/L	75 - 125	196		1.42	J	200	97		P
Cobalt	ug/L	75 - 125	105		14.5	J	100	91		P
Copper	ug/L	75 - 125	142		10.0	U	150	95		P
Iron	ug/L	75 - 125	2140		3290		1500	-77	N	P
Lead	ug/L	75 - 125	453		6.00	U	500	91		P
Magnesium	ug/L	75 - 125	16700		16400		1000	27		P
Manganese	ug/L	75 - 125	211		143		100	68	N	P
Nickel	ug/L	75 - 125	239		7.44	J	250	93		P
Potassium	ug/L	75 - 125	7430		2280		5000	103		P
Selenium	ug/L	75 - 125	935		10.0	U	1000	94		P
Silver	ug/L	75 - 125	35.4		5.00	U	37.5	94		P
Sodium	ug/L	75 - 125	139000		140000		1500	-83		P
Thallium	ug/L	75 - 125	902		20.0	U	1000	90		P
Vanadium	ug/L	75 - 125	139		3.55	J	150	90		P
Zinc	ug/L	75 - 125	115		18.1	J	100	97		P