

metals
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MATRIX SPIKE SUMMARY

client: <u>Remington & Vernick Engineers</u>	level: <u>low</u>	sdg no.: <u>Q3534</u>
contract: <u>REMI02</u>		lab code: <u>ACE</u>
matrix: <u>Water</u>	sample id: <u>Q3542-01</u>	client id: <u>AUD-25-182-194MS</u>
Percent Solids for Sample: <u>NA</u>	Spiked ID: <u>Q3542-01MS</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	1980		967		1000	101		P
Antimony	ug/L	75 - 125	413		4.93	J	400	102		P
Arsenic	ug/L	75 - 125	422		10.4		400	103		P
Barium	ug/L	75 - 125	164		67.3		100	97		P
Beryllium	ug/L	75 - 125	95.0		3.00	U	100	95		P
Cadmium	ug/L	75 - 125	105		3.00	U	100	105		P
Calcium	ug/L	75 - 125	73000		71800		500	233		P
Chromium	ug/L	75 - 125	213		18.3		200	97		P
Cobalt	ug/L	75 - 125	106		15.0	U	100	106		P
Copper	ug/L	75 - 125	148		3.37	J	150	96		P
Iron	ug/L	75 - 125	2580		927		1500	110		P
Lead	ug/L	75 - 125	501		4.76	J	500	99		P
Magnesium	ug/L	75 - 125	1860		951	J	1000	91		P
Manganese	ug/L	75 - 125	103		6.81	J	100	96		P
Mercury	ug/L	75 - 125	4.00		0.20	U	4.0	100		CV
Nickel	ug/L	75 - 125	267		7.29	J	250	104		P
Potassium	ug/L	75 - 125	21200		14300		5000	138	N	P
Selenium	ug/L	75 - 125	986		10.0	U	1000	99		P
Silver	ug/L	75 - 125	38.6		5.00	U	37.5	103		P
Sodium	ug/L	75 - 125	1650000	D	1550000	D	1500	6597		P
Thallium	ug/L	75 - 125	927		2.67	J	1000	92		P
Vanadium	ug/L	75 - 125	188		38.6		150	99		P
Zinc	ug/L	75 - 125	112		8.69	J	100	104		P

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MATRIX SPIKE DUPLICATE SUMMARY

client: <u>Remington & Vernick Engineers</u>	level: <u>low</u>	sdg no.: <u>Q3534</u>
contract: <u>REMI02</u>		lab code: <u>ACE</u>
matrix: <u>Water</u>	sample id: <u>Q3542-01</u>	client id: <u>AUD-25-182-194MSD</u>
Percent Solids for Sample: <u>NA</u>	Spiked ID: <u>Q3542-01MSD</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	1860		967		1000	90		P
Antimony	ug/L	75 - 125	399		4.93	J	400	99		P
Arsenic	ug/L	75 - 125	413		10.4		400	101		P
Barium	ug/L	75 - 125	152		67.3		100	85		P
Beryllium	ug/L	75 - 125	92.0		3.00	U	100	92		P
Cadmium	ug/L	75 - 125	101		3.00	U	100	101		P
Calcium	ug/L	75 - 125	67400		71800		500	-877		P
Chromium	ug/L	75 - 125	204		18.3		200	93		P
Cobalt	ug/L	75 - 125	102		15.0	U	100	102		P
Copper	ug/L	75 - 125	144		3.37	J	150	93		P
Iron	ug/L	75 - 125	2470		927		1500	103		P
Lead	ug/L	75 - 125	486		4.76	J	500	96		P
Magnesium	ug/L	75 - 125	1770		951	J	1000	82		P
Manganese	ug/L	75 - 125	98.3		6.81	J	100	92		P
Mercury	ug/L	75 - 125	4.10		0.20	U	4.0	102		CV
Nickel	ug/L	75 - 125	257		7.29	J	250	100		P
Potassium	ug/L	75 - 125	19700		14300		5000	109		P
Selenium	ug/L	75 - 125	956		10.0	U	1000	96		P
Silver	ug/L	75 - 125	37.4		5.00	U	37.5	100		P
Sodium	ug/L	75 - 125	1520000	D	1550000	D	1500	-2505		P
Thallium	ug/L	75 - 125	927		2.67	J	1000	92		P
Vanadium	ug/L	75 - 125	178		38.6		150	93		P
Zinc	ug/L	75 - 125	108		8.69	J	100	99		P

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MATRIX SPIKE SUMMARY

client: Remington & Vernick Engineers **level:** low **sdg no.:** Q3534
contract: REMI02 **lab code:** ACE
matrix: Water **sample id:** Q3552-01 **client id:** MW-4MS
Percent Solids for Sample: NA **Spiked ID:** Q3552-01MS **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	75 - 125	3.48		0.20	U	4.0	87		CV

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MATRIX SPIKE DUPLICATE SUMMARY

client:	Remington & Vernick Engineers	level:	low	sdg no.:	Q3534
contract:	REMI02			lab code:	ACE
matrix:	Water	sample id:	Q3552-01	client id:	MW-4MSD
Percent Solids for Sample:	NA	Spiked ID:	Q3552-01MSD	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	75 - 125	3.52		0.20	U	4.0	88		CV

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client: <u>Remington & Vernick Engineers</u>	level: <u>low</u>	sdg no.: <u>Q3534</u>
contract: <u>REMI02</u>		lab code: <u>ACE</u>
matrix: <u>Water</u>	sample id: <u>Q3552-04</u>	client id: <u>MW-10MS</u>
Percent Solids for Sample: <u>NA</u>	Spiked ID: <u>Q3552-04MS</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	1060		20.5	J	1000	104		P
Antimony	ug/L	75 - 125	451		25.0	U	400	113		P
Arsenic	ug/L	75 - 125	444		5.08	J	400	110		P
Barium	ug/L	75 - 125	138		32.8	J	100	105		P
Beryllium	ug/L	75 - 125	99.3		0.69	J	100	99		P
Cadmium	ug/L	75 - 125	101		3.00	U	100	101		P
Calcium	ug/L	75 - 125	380000		358000		500	4346		P
Chromium	ug/L	75 - 125	191		5.00	U	200	96		P
Cobalt	ug/L	75 - 125	107		15.0	U	100	107		P
Copper	ug/L	75 - 125	134		10.0	U	150	89		P
Iron	ug/L	75 - 125	55200		52900		1500	151		P
Lead	ug/L	75 - 125	499		5.42	J	500	99		P
Magnesium	ug/L	75 - 125	560000		528000		1000	3216		P
Manganese	ug/L	75 - 125	1310		1120		100	186		P
Nickel	ug/L	75 - 125	267		3.43	J	250	105		P
Potassium	ug/L	75 - 125	133000		116000		5000	337		P
Selenium	ug/L	75 - 125	1030		10.0	U	1000	103		P
Silver	ug/L	75 - 125	46.8		2.29	J	37.5	119		P
Sodium	ug/L	75 - 125	4770000	D	4410000	D	1500	24237		P
Thallium	ug/L	75 - 125	911		20.0	U	1000	91		P
Vanadium	ug/L	75 - 125	154		20.0	U	150	103		P
Zinc	ug/L	75 - 125	115		20.0	U	100	115		P

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MATRIX SPIKE DUPLICATE SUMMARY

client: <u>Remington & Vernick Engineers</u>	level: <u>low</u>	sdg no.: <u>Q3534</u>
contract: <u>REMI02</u>		lab code: <u>ACE</u>
matrix: <u>Water</u>	sample id: <u>Q3552-04</u>	client id: <u>MW-10MSD</u>
Percent Solids for Sample: <u>NA</u>	Spiked ID: <u>Q3552-04MSD</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	1020		20.5	J	1000	100		P
Antimony	ug/L	75 - 125	413		25.0	U	400	103		P
Arsenic	ug/L	75 - 125	421		5.08	J	400	104		P
Barium	ug/L	75 - 125	130		32.8	J	100	97		P
Beryllium	ug/L	75 - 125	96.0		0.69	J	100	95		P
Cadmium	ug/L	75 - 125	97.3		3.00	U	100	97		P
Calcium	ug/L	75 - 125	353000		358000		500	-1024		P
Chromium	ug/L	75 - 125	190		5.00	U	200	95		P
Cobalt	ug/L	75 - 125	103		15.0	U	100	103		P
Copper	ug/L	75 - 125	130		10.0	U	150	87		P
Iron	ug/L	75 - 125	50500		52900		1500	-159		P
Lead	ug/L	75 - 125	478		5.42	J	500	95		P
Magnesium	ug/L	75 - 125	520000		528000		1000	-765		P
Manganese	ug/L	75 - 125	1230		1120		100	104		P
Nickel	ug/L	75 - 125	258		3.43	J	250	102		P
Potassium	ug/L	75 - 125	124000		116000		5000	169		P
Selenium	ug/L	75 - 125	984		10.0	U	1000	98		P
Silver	ug/L	75 - 125	44.5		2.29	J	37.5	113		P
Sodium	ug/L	75 - 125	4340000	D	4410000	D	1500	-4429		P
Thallium	ug/L	75 - 125	889		20.0	U	1000	89		P
Vanadium	ug/L	75 - 125	149		20.0	U	150	99		P
Zinc	ug/L	75 - 125	108		20.0	U	100	108		P