

metals
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MATRIX SPIKE SUMMARY

client: <u>Remington & Vernick Engineers</u>	level: <u>low</u>	sdg no.: <u>Q3495</u>
contract: <u>REMI02</u>		lab code: <u>ACE</u>
matrix: <u>Water</u>	sample id: <u>Q3484-01</u>	client id: <u>TRE-25-0118MS</u>
Percent Solids for Sample: <u>NA</u>	Spiked ID: <u>Q3484-01MS</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
Mercury	ug/L	75 - 125	3.83		0.12	J	4.0	93		CV

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MATRIX SPIKE DUPLICATE SUMMARY

client:	<u>Remington & Vernick Engineers</u>	level:	<u>low</u>	sdg no.:	<u>Q3495</u>
contract:	<u>REMI02</u>			lab code:	<u>ACE</u>
matrix:	<u>Water</u>	sample id:	<u>Q3484-01</u>	client id:	<u>TRE-25-0118MSD</u>
Percent Solids for Sample:	NA	Spiked ID:	Q3484-01MSD	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	3.54		0.12	J	4.0	86		CV

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MATRIX SPIKE SUMMARY

client: Remington & Vernick Engineers **level:** low **sdg no.:** Q3495
contract: REMI02 **lab code:** ACE
matrix: Solid **sample id:** Q3495-01 **client id:** SB-1025-1MS

Percent Solids for Sample: 76.2 **Spiked ID:** Q3495-01MS **Percent Solids for Spike Sample:** 76.2

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	2240		3700		110	-1325		P
Antimony	mg/Kg	75 - 125	25.0		2.96	U	44.9	56	N	P
Arsenic	mg/Kg	75 - 125	39.7		4.36		44.9	79		P
Barium	mg/Kg	75 - 125	18.9		9.51		11.2	84		P
Beryllium	mg/Kg	75 - 125	10.5		0.39		11.2	90		P
Cadmium	mg/Kg	75 - 125	10.5		0.55		11.2	89		P
Calcium	mg/Kg	75 - 125	233		466		56.1	-415		P
Chromium	mg/Kg	75 - 125	28.6		14.8		22.4	61	N	P
Cobalt	mg/Kg	75 - 125	11.5		1.93		11.2	85		P
Copper	mg/Kg	75 - 125	17.7		4.81		16.8	77		P
Iron	mg/Kg	75 - 125	5260		12200		170	-4057		P
Lead	mg/Kg	75 - 125	57.1		7.93		56.1	88		P
Magnesium	mg/Kg	75 - 125	338		709		110	-337		P
Manganese	mg/Kg	75 - 125	22.4		23.2		11.2	-7	N	P
Mercury	mg/Kg	80 - 120	0.39		0.027		0.33	109		CV
Nickel	mg/Kg	75 - 125	28.7		4.98		28.0	85		P
Potassium	mg/Kg	75 - 125	819		585		560	42	N	P
Selenium	mg/Kg	75 - 125	94.0		1.18	U	110	86		P
Silver	mg/Kg	75 - 125	4.27		0.51	J	4.2	89		P
Sodium	mg/Kg	75 - 125	191		54.5	J	170	80		P
Thallium	mg/Kg	75 - 125	109		2.36	U	110	99		P
Vanadium	mg/Kg	75 - 125	23.4		14.7		16.8	52	N	P
Zinc	mg/Kg	75 - 125	15.4		19.4		11.2	-36	N	P

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MATRIX SPIKE DUPLICATE SUMMARY

client: Remington & Vernick Engineers **level:** low **sdg no.:** Q3495
contract: REMI02 **lab code:** ACE
matrix: Solid **sample id:** Q3495-01 **client id:** SB-1025-1MSD

Percent Solids for Sample: 76.2 **Spiked ID:** Q3495-01MSD **Percent Solids for Spike Sample:** 76.2

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	2290		3700		120	-1176		P
Antimony	mg/Kg	75 - 125	25.5		2.96	U	46.0	55	N	P
Arsenic	mg/Kg	75 - 125	40.5		4.36		46.0	79		P
Barium	mg/Kg	75 - 125	19.4		9.51		11.5	86		P
Beryllium	mg/Kg	75 - 125	10.7		0.39		11.5	89		P
Cadmium	mg/Kg	75 - 125	10.7		0.55		11.5	88		P
Calcium	mg/Kg	75 - 125	238		466		57.6	-397		P
Chromium	mg/Kg	75 - 125	29.0		14.8		23.0	62	N	P
Cobalt	mg/Kg	75 - 125	11.7		1.93		11.5	85		P
Copper	mg/Kg	75 - 125	18.0		4.81		17.3	76		P
Iron	mg/Kg	75 - 125	5390		12200		170	-3977		P
Lead	mg/Kg	75 - 125	58.2		7.93		57.6	87		P
Magnesium	mg/Kg	75 - 125	344		709		120	-304		P
Manganese	mg/Kg	75 - 125	22.9		23.2		11.5	-3	N	P
Mercury	mg/Kg	80 - 120	0.35		0.027		0.32	100		CV
Nickel	mg/Kg	75 - 125	29.3		4.98		28.8	84		P
Potassium	mg/Kg	75 - 125	842		585		580	44	N	P
Selenium	mg/Kg	75 - 125	95.9		1.18	U	120	80		P
Silver	mg/Kg	75 - 125	4.33		0.51	J	4.3	89		P
Sodium	mg/Kg	75 - 125	192		54.5	J	170	81		P
Thallium	mg/Kg	75 - 125	109		2.36	U	120	91		P
Vanadium	mg/Kg	75 - 125	23.9		14.7		17.3	53	N	P
Zinc	mg/Kg	75 - 125	15.7		19.4		11.5	-32	N	P

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MATRIX SPIKE SUMMARY

client: <u>Remington & Vernick Engineers</u>	level: <u>low</u>	sdg no.: <u>Q3495</u>
contract: <u>REMI02</u>		lab code: <u>ACE</u>
matrix: <u>Water</u>	sample id: <u>Q3495-03</u>	client id: <u>TW-1025-1MS</u>
Percent Solids for Sample: <u>NA</u>	Spiked ID: <u>Q3495-03MS</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	4810		2530		1000	227	N	P
Antimony	ug/L	75 - 125	379		25.0	U	400	95		P
Arsenic	ug/L	75 - 125	398		10.0	U	400	100		P
Barium	ug/L	75 - 125	230		130		100	100		P
Beryllium	ug/L	75 - 125	97.2		0.38	J	100	97		P
Cadmium	ug/L	75 - 125	94.5		3.00	U	100	94		P
Calcium	ug/L	75 - 125	59100		56600		500	513		P
Chromium	ug/L	75 - 125	214		16.6		200	98		P
Cobalt	ug/L	75 - 125	97.8		15.0	U	100	98		P
Copper	ug/L	75 - 125	143		10.0	U	150	95		P
Iron	ug/L	75 - 125	19400		17300		1500	141		P
Lead	ug/L	75 - 125	457		3.49	J	500	91		P
Magnesium	ug/L	75 - 125	24100		22200		1000	190		P
Manganese	ug/L	75 - 125	187		88.2		100	99		P
Nickel	ug/L	75 - 125	247		3.61	J	250	97		P
Potassium	ug/L	75 - 125	24200		17200		5000	139	N	P
Selenium	ug/L	75 - 125	994		10.0	U	1000	99		P
Silver	ug/L	75 - 125	35.9		5.00	U	37.5	96		P
Sodium	ug/L	75 - 125	126000		122000		1500	261		P
Thallium	ug/L	75 - 125	911		20.0	U	1000	91		P
Vanadium	ug/L	75 - 125	160		13.1	J	150	98		P
Zinc	ug/L	75 - 125	120		10.2	J	100	110		P

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MATRIX SPIKE DUPLICATE SUMMARY

client: <u>Remington & Vernick Engineers</u>	level: <u>low</u>	sdg no.: <u>Q3495</u>
contract: <u>REMI02</u>		lab code: <u>ACE</u>
matrix: <u>Water</u>	sample id: <u>Q3495-03</u>	client id: <u>TW-1025-1MSD</u>
Percent Solids for Sample: <u>NA</u>	Spiked ID: <u>Q3495-03MSD</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	4670		2530		1000	214	N	P
Antimony	ug/L	75 - 125	374		25.0	U	400	94		P
Arsenic	ug/L	75 - 125	392		10.0	U	400	98		P
Barium	ug/L	75 - 125	230		130		100	100		P
Beryllium	ug/L	75 - 125	97.4		0.38	J	100	97		P
Cadmium	ug/L	75 - 125	93.2		3.00	U	100	93		P
Calcium	ug/L	75 - 125	57800		56600		500	243		P
Chromium	ug/L	75 - 125	206		16.6		200	95		P
Cobalt	ug/L	75 - 125	96.9		15.0	U	100	97		P
Copper	ug/L	75 - 125	142		10.0	U	150	95		P
Iron	ug/L	75 - 125	18700		17300		1500	96		P
Lead	ug/L	75 - 125	451		3.49	J	500	90		P
Magnesium	ug/L	75 - 125	23500		22200		1000	127		P
Manganese	ug/L	75 - 125	187		88.2		100	99		P
Nickel	ug/L	75 - 125	244		3.61	J	250	96		P
Potassium	ug/L	75 - 125	23000		17200		5000	117		P
Selenium	ug/L	75 - 125	976		10.0	U	1000	98		P
Silver	ug/L	75 - 125	33.6		5.00	U	37.5	90		P
Sodium	ug/L	75 - 125	124000		122000		1500	139		P
Thallium	ug/L	75 - 125	905		20.0	U	1000	90		P
Vanadium	ug/L	75 - 125	158		13.1	J	150	96		P
Zinc	ug/L	75 - 125	115		10.2	J	100	105		P