

metals
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MATRIX SPIKE SUMMARY

client: First Environment, Inc. **level:** low **sdg no.:** Q2814
contract: FIRS02 **lab code:** ACE
matrix: Water **sample id:** Q2821-08 **client id:** DM-COMPMS
Percent Solids for Sample: NA **Spiked ID:** Q2821-08MS **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	3.70		0.20	U	4.0	92		CV

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MATRIX SPIKE DUPLICATE SUMMARY

client: First Environment, Inc. **level:** low **sdg no.:** Q2814
contract: FIRS02 **lab code:** ACE
matrix: Water **sample id:** Q2821-08 **client id:** DM-COMPMSD
Percent Solids for Sample: NA **Spiked ID:** Q2821-08MSD **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	3.82		0.20	U	4.0	96		CV

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MATRIX SPIKE SUMMARY

client: <u>First Environment, Inc.</u>	level: <u>low</u>	sdg no.: <u>Q2814</u>
contract: <u>FIRS02</u>		lab code: <u>ACE</u>
matrix: <u>Water</u>	sample id: <u>Q2837-01</u>	client id: <u>TW-WTS-13MS</u>
Percent Solids for Sample: <u>NA</u>	Spiked ID: <u>Q2837-01MS</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	86 - 115	1410		468		1000	94		P
Antimony	ug/L	88 - 113	436		25.0	U	400	109		P
Arsenic	ug/L	87 - 113	430		10.0	U	400	108		P
Barium	ug/L	88 - 113	320		239		100	81	N	P
Beryllium	ug/L	89 - 112	85.3		3.00	U	100	85	N	P
Cadmium	ug/L	88 - 113	94.9		3.00	U	100	95		P
Calcium	ug/L	87 - 113	249000		265000		500	-3173		P
Chromium	ug/L	90 - 113	222		28.5		200	97		P
Cobalt	ug/L	89 - 114	98.5		1.99	J	100	97		P
Copper	ug/L	86 - 114	158		13.7		150	96		P
Iron	ug/L	87 - 115	4340		2840		1500	100		P
Lead	ug/L	86 - 113	444		1.79	J	500	88		P
Magnesium	ug/L	85 - 113	1100		252	J	1000	85		P
Manganese	ug/L	90 - 114	101		3.47	J	100	98		P
Nickel	ug/L	88 - 113	264		23.9		250	96		P
Potassium	ug/L	86 - 114	221000		228000		5000	-122		P
Selenium	ug/L	83 - 114	1080		10.0	U	1000	108		P
Silver	ug/L	84 - 115	34.0		5.00	U	37.5	91		P
Sodium	ug/L	87 - 115	115000		119000		1500	-253		P
Thallium	ug/L	85 - 114	859		20.0	U	1000	86		P
Vanadium	ug/L	90 - 111	149		3.33	J	150	97		P
Zinc	ug/L	87 - 115	117		20.0	U	100	117	N	P

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MATRIX SPIKE DUPLICATE SUMMARY

client: <u>First Environment, Inc.</u>	level: <u>low</u>	sdg no.: <u>Q2814</u>
contract: <u>FIRS02</u>		lab code: <u>ACE</u>
matrix: <u>Water</u>	sample id: <u>Q2837-01</u>	client id: <u>TW-WTS-13MSD</u>
Percent Solids for Sample: <u>NA</u>	Spiked ID: <u>Q2837-01MSD</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	86 - 115	1450		468		1000	98		P
Antimony	ug/L	88 - 113	457		25.0	U	400	114	N	P
Arsenic	ug/L	87 - 113	448		10.0	U	400	112		P
Barium	ug/L	88 - 113	336		239		100	98		P
Beryllium	ug/L	89 - 112	86.2		3.00	U	100	86	N	P
Cadmium	ug/L	88 - 113	96.7		3.00	U	100	97		P
Calcium	ug/L	87 - 113	258000		265000		500	-1371		P
Chromium	ug/L	90 - 113	226		28.5		200	99		P
Cobalt	ug/L	89 - 114	101		1.99	J	100	99		P
Copper	ug/L	86 - 114	164		13.7		150	100		P
Iron	ug/L	87 - 115	4570		2840		1500	115		P
Lead	ug/L	86 - 113	451		1.79	J	500	90		P
Magnesium	ug/L	85 - 113	1130		252	J	1000	88		P
Manganese	ug/L	90 - 114	99.7		3.47	J	100	96		P
Nickel	ug/L	88 - 113	270		23.9		250	99		P
Potassium	ug/L	86 - 114	232000		228000		5000	89		P
Selenium	ug/L	83 - 114	1130		10.0	U	1000	113		P
Silver	ug/L	84 - 115	35.2		5.00	U	37.5	94		P
Sodium	ug/L	87 - 115	121000		119000		1500	153		P
Thallium	ug/L	85 - 114	886		20.0	U	1000	89		P
Vanadium	ug/L	90 - 111	153		3.33	J	150	100		P
Zinc	ug/L	87 - 115	120		20.0	U	100	120	N	P

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MATRIX SPIKE SUMMARY

client: <u>First Environment, Inc.</u>	level: <u>low</u>	sdg no.: <u>Q2814</u>
contract: <u>FIRS02</u>		lab code: <u>ACE</u>
matrix: <u>Water</u>	sample id: <u>Q2842-03</u>	client id: <u>MW-17B-55.5-081225MS</u>
Percent Solids for Sample: <u>NA</u>	Spiked ID: <u>Q2842-04</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	82 - 119	3.75		0.20	U	4.0	94		CV

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MATRIX SPIKE DUPLICATE SUMMARY

client: <u>First Environment, Inc.</u>	level: <u>low</u>	sdg no.: <u>Q2814</u>
contract: <u>FIRS02</u>		lab code: <u>ACE</u>
matrix: <u>Water</u>	sample id: <u>Q2842-03</u>	client id: <u>MW-17B-55.5-081225MSD</u>
Percent Solids for Sample: <u>NA</u>	Spiked ID: <u>Q2842-05</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
Mercury	ug/L	82 - 119	3.89		0.20	U	4.0	97		CV