

metals
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MATRIX SPIKE SUMMARY

client: Tetra Tech NUS, Inc. **level:** low **sdg no.:** Q1122
contract: TETR06 **lab code:** CHEM **case no.:** Q1122 **sas no.:** Q1122
matrix: Water **sample id:** Q1122-02 **client id:** RW10A-F-20250116MS
Percent Solids for Sample: NA **Spiked ID:** Q1122-02MS **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	86 - 115	1540		696		1000	84	N	P
Antimony	ug/L	88 - 113	377		25.0	U	400	94		P
Arsenic	ug/L	87 - 113	379		10.0	U	400	95		P
Barium	ug/L	88 - 113	94.7		10.2	J	100	85	N	P
Beryllium	ug/L	89 - 112	85.3		0.14	J	100	85	N	P
Cadmium	ug/L	88 - 113	89.6		3.00	U	100	90		P
Calcium	ug/L	87 - 113	9470		9420		500	9		P
Chromium	ug/L	90 - 113	190		5.00	U	200	95		P
Cobalt	ug/L	89 - 114	109		17.4		100	91		P
Copper	ug/L	86 - 114	158		18.4		150	93		P
Iron	ug/L	87 - 115	3400		2190		1500	81	N	P
Lead	ug/L	86 - 113	442		6.00	U	500	88		P
Magnesium	ug/L	85 - 113	4520		3880		1000	64	N	P
Manganese	ug/L	90 - 114	196		114		100	82	N	P
Nickel	ug/L	88 - 113	246		18.5	J	250	91		P
Potassium	ug/L	86 - 114	7480		3030		5000	89		P
Selenium	ug/L	83 - 114	904		10.0	U	1000	90		P
Silver	ug/L	84 - 115	34.6		5.00	U	37.5	92		P
Sodium	ug/L	87 - 115	44500		47700		1500	-211		P
Thallium	ug/L	85 - 114	929		20.0	U	1000	93		P
Vanadium	ug/L	90 - 111	134		20.0	U	150	89	N	P
Zinc	ug/L	87 - 115	171		77.8		100	93		P

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MATRIX SPIKE DUPLICATE SUMMARY

client: Tetra Tech NUS, Inc. **level:** low **sdg no.:** Q1122
contract: TETR06 **lab code:** CHEM **case no.:** Q1122 **sas no.:** Q1122
matrix: Water **sample id:** Q1122-02 **client id:** RW10A-F-20250116MSD
Percent Solids for Sample: NA **Spiked ID:** Q1122-02MSD **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	86 - 115	1560		696		1000	87		P
Antimony	ug/L	88 - 113	384		25.0	U	400	96		P
Arsenic	ug/L	87 - 113	390		10.0	U	400	98		P
Barium	ug/L	88 - 113	101		10.2	J	100	91		P
Beryllium	ug/L	89 - 112	81.8		0.14	J	100	82	N	P
Cadmium	ug/L	88 - 113	91.4		3.00	U	100	91		P
Calcium	ug/L	87 - 113	9710		9420		500	56		P
Chromium	ug/L	90 - 113	190		5.00	U	200	95		P
Cobalt	ug/L	89 - 114	110		17.4		100	93		P
Copper	ug/L	86 - 114	160		18.4		150	95		P
Iron	ug/L	87 - 115	3600		2190		1500	94		P
Lead	ug/L	86 - 113	450		6.00	U	500	90		P
Magnesium	ug/L	85 - 113	4650		3880		1000	77	N	P
Manganese	ug/L	90 - 114	202		114		100	87	N	P
Nickel	ug/L	88 - 113	251		18.5	J	250	93		P
Potassium	ug/L	86 - 114	7910		3030		5000	98		P
Selenium	ug/L	83 - 114	930		10.0	U	1000	93		P
Silver	ug/L	84 - 115	34.6		5.00	U	37.5	92		P
Sodium	ug/L	87 - 115	47100		47700		1500	-38		P
Thallium	ug/L	85 - 114	945		20.0	U	1000	94		P
Vanadium	ug/L	90 - 111	137		20.0	U	150	91		P
Zinc	ug/L	87 - 115	170		77.8		100	92		P

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MATRIX SPIKE SUMMARY

client: Tetra Tech NUS, Inc. **level:** low **sdg no.:** Q1122
contract: TETR06 **lab code:** CHEM **case no.:** Q1122 **sas no.:** Q1122
matrix: Water **sample id:** Q1140-01 **client id:** FRAC-TANK-F06078MS
Percent Solids for Sample: NA **Spiked ID:** Q1140-01MS **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	82 - 119	3.78		0.22		4.0	89		CV

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MATRIX SPIKE DUPLICATE SUMMARY

client: Tetra Tech NUS, Inc. **level:** low **sdg no.:** Q1122
contract: TETR06 **lab code:** CHEM **case no.:** Q1122 **sas no.:** Q1122
matrix: Water **sample id:** Q1140-01 **client id:** FRAC-TANK-F06078MSD
Percent Solids for Sample: NA **Spiked ID:** Q1140-01MSD **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	82 - 119	3.74		0.22		4.0	88		CV