

metals
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MATRIX SPIKE SUMMARY

client: JACOBS Engineering Group, Inc. **level:** low **sdg no.:** P3451

contract: JACO05 **lab code:** CHEM **case no.:** P3451 **sas no.:** P3451

matrix: Water **sample id:** P3440-01 **client id:** 923-K1-WS-080124MS

Percent Solids for Sample: NA **Spiked ID:** P3440-02 **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	9730		62.5		10000	97		P
Antimony	ug/L	75 - 125	519		2.00	U	500	104		P
Arsenic	ug/L	75 - 125	539		0.79	J	500	108		P
Barium	ug/L	75 - 125	2470		64.4		2500	96		P
Beryllium	ug/L	75 - 125	565		1.00	U	500	113		P
Cadmium	ug/L	75 - 125	537		1.00	U	500	107		P
Calcium	ug/L	75 - 125	71200		22300		50000	98		P
Chromium	ug/L	75 - 125	514		2.00	U	500	103		P
Cobalt	ug/L	75 - 125	531		0.62	J	500	106		P
Copper	ug/L	75 - 125	4950		0.83	J	5000	99		P
Iron	ug/L	75 - 125	29100		3220		25000	103		P
Lead	ug/L	75 - 125	2490		0.52	J	2500	100		P
Magnesium	ug/L	75 - 125	53900		4260		50000	99		P
Manganese	ug/L	75 - 125	5740		859		5000	98		P
Nickel	ug/L	75 - 125	510		0.65	J	500	102		P
Mercury	ug/L	75 - 125	3.28		0.20	U	4.0	82		CV
Potassium	ug/L	75 - 125	28500		3940		25000	98		P
Selenium	ug/L	75 - 125	543		5.00	U	500	109		P
Silver	ug/L	75 - 125	336		1.00	U	500	67	N	P
Sodium	ug/L	75 - 125	144000		96900		50000	95		P
Thallium	ug/L	75 - 125	521		1.00	U	500	104		P
Vanadium	ug/L	75 - 125	539		0.53	J	500	108		P
Zinc	ug/L	75 - 125	5050		3.92	J	5000	101		P

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MATRIX SPIKE DUPLICATE SUMMARY

client: JACOBS Engineering Group, Inc. **level:** low **sdg no.:** P3451
contract: JACO05 **lab code:** CHEM **case no.:** P3451 **sas no.:** P3451
matrix: Water **sample id:** P3440-01 **client id:** 923-K1-WS-080124MSD
Percent Solids for Sample: NA **Spiked ID:** P3440-03 **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	9820		62.5		10000	98		P
Antimony	ug/L	75 - 125	528		2.00	U	500	106		P
Arsenic	ug/L	75 - 125	539		0.79	J	500	108		P
Barium	ug/L	75 - 125	2450		64.4		2500	95		P
Beryllium	ug/L	75 - 125	571		1.00	U	500	114		P
Cadmium	ug/L	75 - 125	540		1.00	U	500	108		P
Calcium	ug/L	75 - 125	72100		22300		50000	100		P
Chromium	ug/L	75 - 125	522		2.00	U	500	104		P
Cobalt	ug/L	75 - 125	540		0.62	J	500	108		P
Copper	ug/L	75 - 125	5030		0.83	J	5000	101		P
Iron	ug/L	75 - 125	29900		3220		25000	107		P
Lead	ug/L	75 - 125	2510		0.52	J	2500	100		P
Magnesium	ug/L	75 - 125	54400		4260		50000	100		P
Manganese	ug/L	75 - 125	5790		859		5000	99		P
Nickel	ug/L	75 - 125	522		0.65	J	500	104		P
Mercury	ug/L	75 - 125	3.17		0.20	U	4.0	79		CV
Potassium	ug/L	75 - 125	28900		3940		25000	100		P
Selenium	ug/L	75 - 125	537		5.00	U	500	107		P
Silver	ug/L	75 - 125	342		1.00	U	500	68	N	P
Sodium	ug/L	75 - 125	148000		96900		50000	102		P
Thallium	ug/L	75 - 125	532		1.00	U	500	106		P
Vanadium	ug/L	75 - 125	547		0.53	J	500	109		P
Zinc	ug/L	75 - 125	5150		3.92	J	5000	103		P