

metals
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MATRIX SPIKE SUMMARY

client: CDM Smith **level:** low **sdg no.:** Q2100
contract: CAMP02 **lab code:** CHEM **case no.:** Q2100 **sas no.:** Q2100
matrix: Solid **sample id:** Q2101-01 **client id:** TP-1-MHEMS
Percent Solids for Sample: 93.9 **Spiked ID:** Q2101-01MS **Percent Solids for Spike Sample:** 93.9

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	4360		2590		91.4	1944		P
Antimony	mg/Kg	75 - 125	17.8		2.98		36.6	40	N	P
Arsenic	mg/Kg	75 - 125	35.7		3.87		36.6	87		P
Barium	mg/Kg	75 - 125	17.3		7.03		9.1	113		P
Beryllium	mg/Kg	75 - 125	8.75		0.45		9.1	91		P
Cadmium	mg/Kg	75 - 125	9.71		0.12	J	9.1	105		P
Calcium	mg/Kg	75 - 125	469		350		45.7	260		P
Chromium	mg/Kg	75 - 125	26.1		5.25		18.3	114		P
Cobalt	mg/Kg	75 - 125	14.7		3.15		9.1	127	N	P
Copper	mg/Kg	75 - 125	23.3		8.35		13.7	109		P
Iron	mg/Kg	75 - 125	16100		11500		140	3306		P
Lead	mg/Kg	75 - 125	49.3		6.52		45.7	94		P
Magnesium	mg/Kg	75 - 125	609		356		91.4	277	N	P
Manganese	mg/Kg	75 - 125	60.8		41.0		9.1	217		P
Nickel	mg/Kg	75 - 125	30.9		3.99		22.9	117		P
Potassium	mg/Kg	75 - 125	731		274		460	99		P
Selenium	mg/Kg	75 - 125	72.2		0.31	J	91.4	79		P
Silver	mg/Kg	75 - 125	2.70		0.44	U	3.4	79		P
Sodium	mg/Kg	75 - 125	204		107		140	69	N	P
Thallium	mg/Kg	75 - 125	88.0		1.75	U	91.4	96		P
Vanadium	mg/Kg	75 - 125	31.6		13.6		13.7	132	N	P
Zinc	mg/Kg	75 - 125	23.0		11.5		9.1	127	N	P

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MATRIX SPIKE DUPLICATE SUMMARY

client: CDM Smith **level:** low **sdg no.:** Q2100
contract: CAMP02 **lab code:** CHEM **case no.:** Q2100 **sas no.:** Q2100
matrix: Solid **sample id:** Q2101-01 **client id:** TP-1-MHEMSD
Percent Solids for Sample: 93.9 **Spiked ID:** Q2101-01MSD **Percent Solids for Spike Sample:** 93.9

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	4650		2590		100	2067		P
Antimony	mg/Kg	75 - 125	15.1		2.98		40.2	30	N	P
Arsenic	mg/Kg	75 - 125	39.1		3.87		40.2	88		P
Barium	mg/Kg	75 - 125	18.6		7.03		10.0	116		P
Beryllium	mg/Kg	75 - 125	8.47		0.45		10.0	80		P
Cadmium	mg/Kg	75 - 125	10.1		0.12	J	10.0	100		P
Calcium	mg/Kg	75 - 125	485		350		50.2	269		P
Chromium	mg/Kg	75 - 125	25.5		5.25		20.1	101		P
Cobalt	mg/Kg	75 - 125	15.4		3.15		10.0	122		P
Copper	mg/Kg	75 - 125	24.3		8.35		15.1	106		P
Iron	mg/Kg	75 - 125	18400		11500		150	4556		P
Lead	mg/Kg	75 - 125	52.7		6.52		50.2	92		P
Magnesium	mg/Kg	75 - 125	598		356		100	243	N	P
Manganese	mg/Kg	75 - 125	59.5		41.0		10.0	185		P
Nickel	mg/Kg	75 - 125	32.6		3.99		25.1	114		P
Potassium	mg/Kg	75 - 125	842		274		500	114		P
Selenium	mg/Kg	75 - 125	80.0		0.31	J	100	80		P
Silver	mg/Kg	75 - 125	3.48		0.44	U	3.8	92		P
Sodium	mg/Kg	75 - 125	236		107		150	86		P
Thallium	mg/Kg	75 - 125	95.4		1.75	U	100	95		P
Vanadium	mg/Kg	75 - 125	34.3		13.6		15.1	138	N	P
Zinc	mg/Kg	75 - 125	24.3		11.5		10.0	129	N	P

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MATRIX SPIKE SUMMARY

client: CDM Smith **level:** low **sdg no.:** Q2100
contract: CAMP02 **lab code:** CHEM **case no.:** Q2100 **sas no.:** Q2100
matrix: Solid **sample id:** Q2109-01 **client id:** TP-02-MHFMS
Percent Solids for Sample: 87.3 **Spiked ID:** Q2109-01MS **Percent Solids for Spike Sample:** 87.3

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.33		0.020		0.3	104		CV

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MATRIX SPIKE DUPLICATE SUMMARY

client: CDM Smith **level:** low **sdg no.:** Q2100
contract: CAMP02 **lab code:** CHEM **case no.:** Q2100 **sas no.:** Q2100
matrix: Solid **sample id:** Q2109-01 **client id:** TP-02-MHFMSD
Percent Solids for Sample: 87.3 **Spiked ID:** Q2109-01MSD **Percent Solids for Spike Sample:** 87.3

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.28		0.020		0.3	86		CV