

metals
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MATRIX SPIKE SUMMARY

client: CDM Smith **level:** low **sdg no.:** Q2543
contract: CAMP02 **lab code:** ACE
matrix: Solid **sample id:** Q2542-01 **client id:** VNJ-245MS

Percent Solids for Sample: 95.6 **Spiked ID:** Q2542-01MS **Percent Solids for Spike Sample:** 95.6

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	8040		7410		96.4	650		P
Antimony	mg/Kg	75 - 125	14.5		2.36	U	38.6	38	N	P
Arsenic	mg/Kg	75 - 125	34.3		3.12		38.6	81		P
Barium	mg/Kg	75 - 125	40.7		32.8		9.6	82		P
Beryllium	mg/Kg	75 - 125	8.70		0.54		9.6	85		P
Cadmium	mg/Kg	75 - 125	9.39		0.068	J	9.6	97		P
Calcium	mg/Kg	75 - 125	1000		944		48.2	126		P
Chromium	mg/Kg	75 - 125	31.2		15.0		19.3	84		P
Cobalt	mg/Kg	75 - 125	19.0		8.86		9.6	105		P
Copper	mg/Kg	75 - 125	39.1		25.0		14.5	97		P
Iron	mg/Kg	75 - 125	14600		14500		140	92		P
Lead	mg/Kg	75 - 125	66.4		21.7		48.2	93		P
Magnesium	mg/Kg	75 - 125	2540		2410		96.4	128		P
Manganese	mg/Kg	75 - 125	386		354		9.6	335		P
Nickel	mg/Kg	75 - 125	35.5		12.0		24.1	97		P
Potassium	mg/Kg	75 - 125	787		353		480	90		P
Selenium	mg/Kg	75 - 125	72.3		0.94	U	96.4	75		P
Silver	mg/Kg	75 - 125	3.19		0.47	U	3.6	89		P
Sodium	mg/Kg	75 - 125	444		302		140	101		P
Thallium	mg/Kg	75 - 125	87.4		1.88	U	96.4	91		P
Vanadium	mg/Kg	75 - 125	43.5		31.9		14.5	80		P
Zinc	mg/Kg	75 - 125	51.6		39.6		9.6	125		P

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MATRIX SPIKE DUPLICATE SUMMARY

client: <u>CDM Smith</u>	level: <u>low</u>	sdg no.: <u>Q2543</u>
contract: <u>CAMP02</u>		lab code: <u>ACE</u>
matrix: <u>Solid</u>	sample id: <u>Q2542-01</u>	client id: <u>VNJ-245MSD</u>

Percent Solids for Sample: 95.6	Spiked ID: Q2542-01MSD	Percent Solids for Spike Sample: 95.6
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Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	7660		7410		89.4	279		P
Antimony	mg/Kg	75 - 125	13.4		2.36	U	35.8	37	N	P
Arsenic	mg/Kg	75 - 125	31.7		3.12		35.8	80		P
Barium	mg/Kg	75 - 125	38.6		32.8		8.9	64	N	P
Beryllium	mg/Kg	75 - 125	8.23		0.54		8.9	86		P
Cadmium	mg/Kg	75 - 125	8.69		0.068	J	8.9	97		P
Calcium	mg/Kg	75 - 125	967		944		44.7	53		P
Chromium	mg/Kg	75 - 125	29.1		15.0		17.9	78		P
Cobalt	mg/Kg	75 - 125	17.8		8.86		8.9	100		P
Copper	mg/Kg	75 - 125	36.3		25.0		13.4	84		P
Iron	mg/Kg	75 - 125	13600		14500		130	-731		P
Lead	mg/Kg	75 - 125	61.4		21.7		44.7	89		P
Magnesium	mg/Kg	75 - 125	2410		2410		89.4	-10		P
Manganese	mg/Kg	75 - 125	365		354		8.9	120		P
Nickel	mg/Kg	75 - 125	33.0		12.0		22.4	94		P
Potassium	mg/Kg	75 - 125	730		353		450	84		P
Selenium	mg/Kg	75 - 125	66.3		0.94	U	89.4	74	N	P
Silver	mg/Kg	75 - 125	2.85		0.47	U	3.4	84		P
Sodium	mg/Kg	75 - 125	411		302		130	84		P
Thallium	mg/Kg	75 - 125	76.5		1.88	U	89.4	86		P
Vanadium	mg/Kg	75 - 125	41.2		31.9		13.4	69	N	P
Zinc	mg/Kg	75 - 125	48.0		39.6		8.9	95		P

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MATRIX SPIKE SUMMARY

client: CDM Smith **level:** low **sdg no.:** Q2543
contract: CAMP02 **lab code:** ACE
matrix: Solid **sample id:** Q2558-03 **client id:** OU4-TS-Grillo-OG-070925MS
Percent Solids for Sample: 78.7 **Spiked ID:** Q2558-03MS **Percent Solids for Spike Sample:** 78.7

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 124	0.29		0.035		0.32	79	N	CV

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MATRIX SPIKE DUPLICATE SUMMARY

client: CDM Smith **level:** low **sdg no.:** Q2543
contract: CAMP02 **lab code:** ACE
matrix: Solid **sample id:** Q2558-03 **client id:** OU4-TS-Grillo-OG-070925MSD
Percent Solids for Sample: 78.7 **Spiked ID:** Q2558-03MSD **Percent Solids for Spike Sample:** 78.7

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 124	0.28		0.035		0.32	75	N	CV