

metals
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MATRIX SPIKE SUMMARY

client: Nobis Group **level:** low **sdg no.:** Q1883
contract: NOBI03 **lab code:** CHEM **case no.:** Q1883 **sas no.:** Q1883
matrix: Solid **sample id:** Q1883-11 **client id:** OU4-PCS-TC-32-042325MS
Percent Solids for Sample: 97.3 **Spiked ID:** Q1883-11MS **Percent Solids for Spike Sample:** 97.3

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	74 - 119	9310		8150		100	1161		P
Antimony	mg/Kg	79 - 114	10.9		2.39	U	40.9	27	N	P
Arsenic	mg/Kg	82 - 111	33.6		2.12		40.9	77	N	P
Barium	mg/Kg	83 - 113	44.2		29.3		10.2	146	N	P
Beryllium	mg/Kg	83 - 113	8.71		0.28	J	10.2	83		P
Cadmium	mg/Kg	82 - 113	12.1		1.33		10.2	106		P
Calcium	mg/Kg	81 - 116	11900		11100		51.1	1641		P
Chromium	mg/Kg	85 - 113	17.4		0.83		20.5	81	N	P
Cobalt	mg/Kg	85 - 112	30.7		19.3		10.2	112		P
Copper	mg/Kg	81 - 117	60.7		46.1		15.3	96		P
Iron	mg/Kg	81 - 118	33000		32200		150	544		P
Lead	mg/Kg	81 - 112	51.4		2.06		51.1	97		P
Magnesium	mg/Kg	78 - 115	6040		5610		100	436		P
Manganese	mg/Kg	84 - 114	311		292		10.2	182		P
Nickel	mg/Kg	83 - 113	32.4		7.08		25.6	99		P
Potassium	mg/Kg	81 - 116	534		123		510	81		P
Selenium	mg/Kg	78 - 111	73.8		0.96	U	100	74	N	P
Silver	mg/Kg	82 - 112	2.97		0.48	U	3.8	78	N	P
Sodium	mg/Kg	83 - 118	1140		951		150	125		P
Thallium	mg/Kg	83 - 111	95.2		1.91	U	100	95		P
Vanadium	mg/Kg	82 - 114	110		84.8		15.3	164		P
Zinc	mg/Kg	82 - 113	52.2		37.7		10.2	141	N	P

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MATRIX SPIKE DUPLICATE SUMMARY

client: Nobis Group **level:** low **sdg no.:** Q1883
contract: NOBI03 **lab code:** CHEM **case no.:** Q1883 **sas no.:** Q1883
matrix: Solid **sample id:** Q1883-11 **client id:** OU4-PCS-TC-32-042325MSD
Percent Solids for Sample: 97.3 **Spiked ID:** Q1883-11MSD **Percent Solids for Spike Sample:** 97.3

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	74 - 119	9810		8150		100	1659		P
Antimony	mg/Kg	79 - 114	11.2		2.39	U	41.1	27	N	P
Arsenic	mg/Kg	82 - 111	35.6		2.12		41.1	82		P
Barium	mg/Kg	83 - 113	47.0		29.3		10.3	172	N	P
Beryllium	mg/Kg	83 - 113	8.22		0.28	J	10.3	77	N	P
Cadmium	mg/Kg	82 - 113	12.2		1.33		10.3	105		P
Calcium	mg/Kg	81 - 116	12500		11100		51.4	2834		P
Chromium	mg/Kg	85 - 113	17.9		0.83		20.6	83	N	P
Cobalt	mg/Kg	85 - 112	32.7		19.3		10.3	129	N	P
Copper	mg/Kg	81 - 117	61.5		46.1		15.4	100		P
Iron	mg/Kg	81 - 118	37500		32200		150	3541		P
Lead	mg/Kg	81 - 112	53.6		2.06		51.4	100		P
Magnesium	mg/Kg	78 - 115	6280		5610		100	678		P
Manganese	mg/Kg	84 - 114	335		292		10.3	416		P
Nickel	mg/Kg	83 - 113	34.2		7.08		25.7	105		P
Potassium	mg/Kg	81 - 116	610		123		510	95		P
Selenium	mg/Kg	78 - 111	78.4		0.96	U	100	78		P
Silver	mg/Kg	82 - 112	3.64		0.48	U	3.9	93		P
Sodium	mg/Kg	83 - 118	1410		951		150	305		P
Thallium	mg/Kg	83 - 111	100		1.91	U	100	100		P
Vanadium	mg/Kg	82 - 114	116		84.8		15.4	200		P
Zinc	mg/Kg	82 - 113	53.5		37.7		10.3	153	N	P

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MATRIX SPIKE SUMMARY

client: <u>Nobis Group</u>	level: <u>low</u>	sdg no.: <u>Q1883</u>
contract: <u>NOBI03</u>	lab code: <u>CHEM</u>	case no.: <u>Q1883</u> sas no.: <u>Q1883</u>
matrix: <u>Solid</u>	sample id: <u>Q1883-15</u>	client id: <u>OU4-VSL-19-042325MS</u>
Percent Solids for Sample: 95.8	Spiked ID: Q1883-15MS	Percent Solids for Spike Sample: 95.8

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 124	0.23		0.013	U	0.25	92		CV

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MATRIX SPIKE DUPLICATE SUMMARY

client:	<u>Nobis Group</u>	level:	<u>low</u>	sdg no.:	<u>Q1883</u>	
contract:	<u>NOBI03</u>	lab code:	<u>CHEM</u>	case no.:	<u>Q1883</u>	sas no.: <u>Q1883</u>
matrix:	<u>Solid</u>	sample id:	<u>Q1883-15</u>	client id:	<u>OU4-VSL-19-042325MSD</u>	
Percent Solids for Sample:	95.8	Spiked ID:	<u>Q1883-15MSD</u>	Percent Solids for Spike Sample:	95.8	

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 124	0.24		0.013	U	0.25	94		CV