

metals
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MATRIX SPIKE SUMMARY

client: Nobis Group **level:** low **sdg no.:** Q2558
contract: NOBI03 **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:	<u>Nobis Group</u>	level:	<u>low</u>	sdg no.:	<u>Q2558</u>
contract:	<u>NOBI03</u>			lab code:	<u>ACE</u>
matrix:	<u>Solid</u>	sample id:	<u>Q2558-03</u>	client id:	<u>OU4-TS-Grillo-OG-070925MSD</u>
Percent Solids for Sample:	<u>78.7</u>	Spiked ID:	<u>Q2558-03MSD</u>	Percent Solids for Spike Sample:	<u>78.7</u>

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

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MATRIX SPIKE SUMMARY

client: Nobis Group **level:** low **sdg no.:** Q2558
contract: NOBI03 **lab code:** ACE
matrix: Solid **sample id:** Q2564-05 **client id:** ARS20-0039MS

Percent Solids for Sample: 87.2 **Spiked ID:** Q2564-05MS **Percent Solids for Spike Sample:** 87.2

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	74 - 119	7450		5580		98.0	1906		P
Antimony	mg/Kg	79 - 114	13.9		1.32	J	39.2	32	N	P
Arsenic	mg/Kg	82 - 111	49.4		9.90		39.2	101		P
Barium	mg/Kg	83 - 113	39.4		29.6		9.8	99		P
Beryllium	mg/Kg	83 - 113	9.83		0.57		9.8	94		P
Cadmium	mg/Kg	82 - 113	9.97		0.30	U	9.8	102		P
Calcium	mg/Kg	81 - 116	2970		3050		49.0	-165		P
Chromium	mg/Kg	85 - 113	29.2		11.5		19.6	90		P
Cobalt	mg/Kg	85 - 112	9.95		1.52	U	9.8	102		P
Copper	mg/Kg	81 - 117	29.0		13.8		14.7	103		P
Iron	mg/Kg	81 - 118	14400		13800		150	414		P
Lead	mg/Kg	81 - 112	157		104		49.0	109		P
Magnesium	mg/Kg	78 - 115	1660		1550		98.0	118		P
Manganese	mg/Kg	84 - 114	128		123		9.8	60		P
Nickel	mg/Kg	83 - 113	32.6		6.94		24.5	105		P
Potassium	mg/Kg	81 - 116	1100		678		490	86		P
Selenium	mg/Kg	78 - 111	80.6		2.95		98.0	79		P
Silver	mg/Kg	82 - 112	2.78		0.51	U	3.7	76	N	P
Sodium	mg/Kg	83 - 118	254		128		150	86		P
Thallium	mg/Kg	83 - 111	96.3		2.02	U	98.0	98		P
Vanadium	mg/Kg	82 - 114	38.7		21.9		14.7	115	N	P
Zinc	mg/Kg	82 - 113	74.8		73.7		9.8	12		P

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MATRIX SPIKE DUPLICATE SUMMARY

client: <u>Nobis Group</u>	level: <u>low</u>	sdg no.: <u>Q2558</u>
contract: <u>NOBI03</u>		lab code: <u>ACE</u>
matrix: <u>Solid</u>	sample id: <u>Q2564-05</u>	client id: <u>ARS20-0039MSD</u>

Percent Solids for Sample: 87.2	Spiked ID: Q2564-05MSD	Percent Solids for Spike Sample: 87.2
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Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	74 - 119	7250		5580		110	1571		P
Antimony	mg/Kg	79 - 114	15.1		1.32	J	42.5	32	N	P
Arsenic	mg/Kg	82 - 111	57.7		9.90		42.5	113	N	P
Barium	mg/Kg	83 - 113	39.6		29.6		10.6	94		P
Beryllium	mg/Kg	83 - 113	10.9		0.57		10.6	98		P
Cadmium	mg/Kg	82 - 113	10.8		0.30	U	10.6	102		P
Calcium	mg/Kg	81 - 116	2640		3050		53.1	-786		P
Chromium	mg/Kg	85 - 113	31.6		11.5		21.2	94		P
Cobalt	mg/Kg	85 - 112	10.7		1.52	U	10.6	101		P
Copper	mg/Kg	81 - 117	32.7		13.8		15.9	118	N	P
Iron	mg/Kg	81 - 118	14700		13800		160	566		P
Lead	mg/Kg	81 - 112	172		104		53.1	128	N	P
Magnesium	mg/Kg	78 - 115	1490		1550		110	-51		P
Manganese	mg/Kg	84 - 114	125		123		10.6	24		P
Nickel	mg/Kg	83 - 113	34.9		6.94		26.5	105		P
Potassium	mg/Kg	81 - 116	1220		678		530	101		P
Selenium	mg/Kg	78 - 111	88.4		2.95		110	80		P
Silver	mg/Kg	82 - 112	3.15		0.51	U	4.0	79	N	P
Sodium	mg/Kg	83 - 118	292		128		160	103		P
Thallium	mg/Kg	83 - 111	105		2.02	U	110	99		P
Vanadium	mg/Kg	82 - 114	40.3		21.9		15.9	116	N	P
Zinc	mg/Kg	82 - 113	84.0		73.7		10.6	98		P