

metals
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MATRIX SPIKE SUMMARY

client: <u>Nobis Group</u>	level: <u>low</u>	sdg no.: <u>Q2879</u>
contract: <u>NOBI03</u>		lab code: <u>ACE</u>
matrix: <u>Solid</u>	sample id: <u>Q2889-01</u>	client id: <u>PL-02-081525MS</u>

Percent Solids for Sample: 93.2	Spiked ID: Q2889-01MS	Percent Solids for Spike Sample: 93.2
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Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	74 - 119	7450		8840		89.0	-1559		P
Antimony	mg/Kg	79 - 114	15.2		2.34	U	35.6	43	N	P
Arsenic	mg/Kg	82 - 111	33.7		3.41		35.6	85		P
Barium	mg/Kg	83 - 113	34.6		36.3		8.9	-19		P
Beryllium	mg/Kg	83 - 113	8.05		0.77		8.9	82	N	P
Cadmium	mg/Kg	82 - 113	8.83		0.44		8.9	94		P
Calcium	mg/Kg	81 - 116	1470		1140		44.5	726		P
Chromium	mg/Kg	85 - 113	27.7		11.7		17.8	90		P
Cobalt	mg/Kg	85 - 112	13.9		7.08		8.9	76	N	P
Copper	mg/Kg	81 - 117	24.3		12.1		13.4	91		P
Iron	mg/Kg	81 - 118	12400		14700		130	-1780		P
Lead	mg/Kg	81 - 112	49.2		10.9		44.5	86		P
Magnesium	mg/Kg	78 - 115	2180		2400		89.0	-247		P
Manganese	mg/Kg	84 - 114	206		250		8.9	-497		P
Mercury	mg/Kg	80 - 124	0.30		0.034		0.29	91		CV
Nickel	mg/Kg	83 - 113	31.7		12.1		22.3	88		P
Potassium	mg/Kg	81 - 116	882		632		450	56	N	P
Selenium	mg/Kg	78 - 111	74.9		0.94	U	89.0	84		P
Silver	mg/Kg	82 - 112	3.46		0.46	J	3.3	91		P
Sodium	mg/Kg	83 - 118	290		171		130	91		P
Thallium	mg/Kg	83 - 111	80.2		1.87	U	89.0	90		P
Vanadium	mg/Kg	82 - 114	32.9		21.5		13.4	85		P
Zinc	mg/Kg	82 - 113	33.1		30.1		8.9	34	N	P

metals
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MATRIX SPIKE DUPLICATE SUMMARY

client: <u>Nobis Group</u>	level: <u>low</u>	sdg no.: <u>Q2879</u>
contract: <u>NOBI03</u>		lab code: <u>ACE</u>
matrix: <u>Solid</u>	sample id: <u>Q2889-01</u>	client id: <u>PL-02-081525MSD</u>

Percent Solids for Sample: 93.2	Spiked ID: Q2889-01MSD	Percent Solids for Spike Sample: 93.2
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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	7230		8840		87.6	-1829		P
Antimony	mg/Kg	79 - 114	14.9		2.34	U	35.0	43	N	P
Arsenic	mg/Kg	82 - 111	33.0		3.41		35.0	84		P
Barium	mg/Kg	83 - 113	33.7		36.3		8.8	-30		P
Beryllium	mg/Kg	83 - 113	7.71		0.77		8.8	79	N	P
Cadmium	mg/Kg	82 - 113	8.56		0.44		8.8	92		P
Calcium	mg/Kg	81 - 116	1420		1140		43.8	635		P
Chromium	mg/Kg	85 - 113	26.9		11.7		17.5	87		P
Cobalt	mg/Kg	85 - 112	13.5		7.08		8.8	73	N	P
Copper	mg/Kg	81 - 117	23.5		12.1		13.1	87		P
Iron	mg/Kg	81 - 118	12200		14700		130	-1962		P
Lead	mg/Kg	81 - 112	47.7		10.9		43.8	84		P
Magnesium	mg/Kg	78 - 115	2110		2400		87.6	-335		P
Manganese	mg/Kg	84 - 114	199		250		8.8	-577		P
Mercury	mg/Kg	80 - 124	0.28		0.034		0.27	90		CV
Nickel	mg/Kg	83 - 113	30.8		12.1		21.9	85		P
Potassium	mg/Kg	81 - 116	864		632		440	53	N	P
Selenium	mg/Kg	78 - 111	73.0		0.94	U	87.6	83		P
Silver	mg/Kg	82 - 112	3.41		0.46	J	3.3	89		P
Sodium	mg/Kg	83 - 118	285		171		130	88		P
Thallium	mg/Kg	83 - 111	76.9		1.87	U	87.6	88		P
Vanadium	mg/Kg	82 - 114	31.9		21.5		13.1	79	N	P
Zinc	mg/Kg	82 - 113	32.2		30.1		8.8	24	N	P