

metals
- 5a -
MATRIX SPIKE SUMMARY

client: Kleinfelder **level:** low **sdg no.:** Q3155
contract: POWE02 **lab code:** ACE
matrix: Solid **sample id:** Q3157-01 **client id:** 20-DEAD-1MS

Percent Solids for Sample: 90.9 **Spiked ID:** Q3157-01MS **Percent Solids for Spike Sample:** 90.9

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	8940		7720		91.7	1332		P
Antimony	mg/Kg	75 - 125	15.4		2.39	U	36.7	42	N	P
Arsenic	mg/Kg	75 - 125	33.3		2.77		36.7	83		P
Barium	mg/Kg	75 - 125	54.4		43.5		9.2	119		P
Beryllium	mg/Kg	75 - 125	8.36		0.62		9.2	84		P
Boron	mg/Kg	75 - 125	31.2		11.3		13.8	144	N	P
Cadmium	mg/Kg	75 - 125	9.73		0.42		9.2	101		P
Chromium	mg/Kg	75 - 125	31.8		15.2		18.3	90		P
Cobalt	mg/Kg	75 - 125	20.0		9.74		9.2	111		P
Copper	mg/Kg	75 - 125	44.6		33.5		13.8	81		P
Iron	mg/Kg	75 - 125	17300		17600		140	-192		P
Lead	mg/Kg	75 - 125	63.8		54.1		45.8	21	N	P
Manganese	mg/Kg	75 - 125	358		316		9.2	449		P
Molybdenum	mg/Kg	75 - 125	16.3		9.57	U	18.3	89		P
Nickel	mg/Kg	75 - 125	40.0		15.7		22.9	106		P
Selenium	mg/Kg	75 - 125	75.9		0.96	U	91.7	83		P
Silver	mg/Kg	75 - 125	3.21		0.42	J	3.4	82		P
Thallium	mg/Kg	75 - 125	80.1		1.91	U	91.7	87		P
Vanadium	mg/Kg	75 - 125	45.7		33.2		13.8	91		P
Zinc	mg/Kg	75 - 125	45.3		38.9		9.2	70		P

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- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: Kleinfelder **level:** low **sdg no.:** Q3155
contract: POWE02 **lab code:** ACE
matrix: Solid **sample id:** Q3157-01 **client id:** 20-DEAD-1MSD

Percent Solids for Sample: 90.9 **Spiked ID:** Q3157-01MSD **Percent Solids for Spike Sample:** 90.9

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	8530		7720		95.7	844		P
Antimony	mg/Kg	75 - 125	15.4		2.39	U	38.3	40	N	P
Arsenic	mg/Kg	75 - 125	33.2		2.77		38.3	80		P
Barium	mg/Kg	75 - 125	55.1		43.5		9.6	121		P
Beryllium	mg/Kg	75 - 125	8.29		0.62		9.6	80		P
Boron	mg/Kg	75 - 125	22.0		11.3		14.3	75		P
Cadmium	mg/Kg	75 - 125	9.45		0.42		9.6	94		P
Chromium	mg/Kg	75 - 125	31.1		15.2		19.1	83		P
Cobalt	mg/Kg	75 - 125	19.6		9.74		9.6	103		P
Copper	mg/Kg	75 - 125	43.3		33.5		14.3	69	N	P
Iron	mg/Kg	75 - 125	17200		17600		140	-261		P
Lead	mg/Kg	75 - 125	60.8		54.1		47.8	14	N	P
Manganese	mg/Kg	75 - 125	404		316		9.6	910		P
Molybdenum	mg/Kg	75 - 125	16.4		9.57	U	19.1	86		P
Nickel	mg/Kg	75 - 125	41.7		15.7		23.9	109		P
Selenium	mg/Kg	75 - 125	75.4		0.96	U	95.7	79		P
Silver	mg/Kg	75 - 125	3.37		0.42	J	3.6	82		P
Thallium	mg/Kg	75 - 125	79.5		1.91	U	95.7	83		P
Vanadium	mg/Kg	75 - 125	42.9		33.2		14.3	68	N	P
Zinc	mg/Kg	75 - 125	44.8		38.9		9.6	62		P

metals
- 5a -
MATRIX SPIKE SUMMARY

client: Kleinfelder **level:** low **sdg no.:** Q3155
contract: POWE02 **lab code:** ACE
matrix: Solid **sample id:** Q3159-03 **client id:** VNJ-255MS
Percent Solids for Sample: 91.5 **Spiked ID:** Q3159-03MS **Percent Solids for Spike Sample:** 91.5

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.30		0.017		0.26	107		CV

metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client:	<u>Kleinfelder</u>	level:	<u>low</u>	sdg no.:	<u>Q3155</u>
contract:	<u>POWE02</u>			lab code:	<u>ACE</u>
matrix:	<u>Solid</u>	sample id:	<u>Q3159-03</u>	client id:	<u>VNJ-255MSD</u>
Percent Solids for Sample:	91.5	Spiked ID:	Q3159-03MSD	Percent Solids for Spike Sample:	91.5

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.34		0.017		0.27	121	N	CV