

metals
- 5a -
MATRIX SPIKE SUMMARY

client: US Army Corp of Engineers **level:** low **sdg no.:** Q2085
contract: USAR03 **lab code:** CHEM **case no.:** Q2085 **sas no.:** Q2085
matrix: Solid **sample id:** Q2085-04 **client id:** SC-1-SED-051625MS
Percent Solids for Sample: 70.5 **Spiked ID:** Q2085-05 **Percent Solids for Spike Sample:** 70.5

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	78 - 124	5760		3290		1100	228	N	P
Antimony	mg/Kg	72 - 124	51.5		2.12		54.1	91		P
Arsenic	mg/Kg	82 - 118	3.45		2.49		54.1	2	N	P
Barium	mg/Kg	86 - 116	247		7.23		270	88		P
Beryllium	mg/Kg	80 - 120	53.4		0.24		54.1	98		P
Cadmium	mg/Kg	84 - 116	52.0		0.097	J	54.1	96		P
Calcium	mg/Kg	86 - 118	5360		430		5400	91		P
Chromium	mg/Kg	83 - 119	57.5		5.35		54.1	96		P
Cobalt	mg/Kg	84 - 115	53.0		1.94		54.1	94		P
Copper	mg/Kg	84 - 119	509		3.71		540	93		P
Iron	mg/Kg	81 - 124	12900		6010		2700	255	N	P
Lead	mg/Kg	84 - 118	266		4.25		270	97		P
Magnesium	mg/Kg	80 - 123	6500		1020		5400	101		P
Manganese	mg/Kg	85 - 116	592		50.7		540	100		P
Nickel	mg/Kg	84 - 119	52.6		4.38		54.1	89		P
Mercury	mg/Kg	80 - 124	0.37		0.017	U	0.35	106		CV
Potassium	mg/Kg	85 - 119	3070		620		2700	90		P
Selenium	mg/Kg	80 - 119	47.3		0.51	U	54.1	87		P
Silver	mg/Kg	83 - 118	9.01		0.10	U	54.1	17	N	P
Sodium	mg/Kg	79 - 125	7270		2270		5400	92		P
Thallium	mg/Kg	83 - 118	50.9		0.062	J	54.1	94		P
Vanadium	mg/Kg	82 - 116	62.5		7.42		54.1	102		P
Zinc	mg/Kg	82 - 119	539		27.3		540	95		P

metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: US Army Corp of Engineers **level:** low **sdg no.:** Q2085
contract: USAR03 **lab code:** CHEM **case no.:** Q2085 **sas no.:** Q2085
matrix: Solid **sample id:** Q2085-04 **client id:** SC-1-SED-051625MSD
Percent Solids for Sample: 70.5 **Spiked ID:** Q2085-06 **Percent Solids for Spike Sample:** 70.5

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	78 - 124	5810		3290		1100	228	N	P
Antimony	mg/Kg	72 - 124	53.6		2.12		55.4	93		P
Arsenic	mg/Kg	82 - 118	3.37		2.49		55.4	2	N	P
Barium	mg/Kg	86 - 116	252		7.23		280	88		P
Beryllium	mg/Kg	80 - 120	55.0		0.24		55.4	99		P
Cadmium	mg/Kg	84 - 116	54.3		0.097	J	55.4	98		P
Calcium	mg/Kg	86 - 118	5520		430		5500	92		P
Chromium	mg/Kg	83 - 119	59.6		5.35		55.4	98		P
Cobalt	mg/Kg	84 - 115	55.1		1.94		55.4	96		P
Copper	mg/Kg	84 - 119	533		3.71		550	96		P
Iron	mg/Kg	81 - 124	14400		6010		2800	302	N	P
Lead	mg/Kg	84 - 118	274		4.25		280	97		P
Magnesium	mg/Kg	80 - 123	6710		1020		5500	103		P
Manganese	mg/Kg	85 - 116	615		50.7		550	102		P
Nickel	mg/Kg	84 - 119	54.8		4.38		55.4	91		P
Mercury	mg/Kg	80 - 124	0.41		0.017	U	0.37	110		CV
Potassium	mg/Kg	85 - 119	3150		620		2800	91		P
Selenium	mg/Kg	80 - 119	49.2		0.51	U	55.4	89		P
Silver	mg/Kg	83 - 118	9.43		0.10	U	55.4	17	N	P
Sodium	mg/Kg	79 - 125	7270		2270		5500	90		P
Thallium	mg/Kg	83 - 118	52.3		0.062	J	55.4	94		P
Vanadium	mg/Kg	82 - 116	66.1		7.42		55.4	106		P
Zinc	mg/Kg	82 - 119	558		27.3		550	96		P