

metals
- 5a -
MATRIX SPIKE SUMMARY

client: AECOM **level:** low **sdg no.:** Q3419
contract: AECO02 **lab code:** ACE
matrix: Solid **sample id:** Q3419-01 **client id:** PR-132-S16-015094-20251021MS
Percent Solids for Sample: 54.4 **Spiked ID:** Q3419-02 **Percent Solids for Spike Sample:** 54.4

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	11500		11700		1600	-17		P
Antimony	mg/Kg	75 - 125	72.4		0.17	J	82.1	88		P
Arsenic	mg/Kg	75 - 125	93.2	D	19.3	D	82.1	90		P
Barium	mg/Kg	75 - 125	471		155		410	77		P
Beryllium	mg/Kg	75 - 125	72.0		0.97		82.1	87		P
Cadmium	mg/Kg	75 - 125	76.4		5.71		82.1	86		P
Calcium	mg/Kg	75 - 125	13600		8400		8200	63	N	P
Chromium	mg/Kg	75 - 125	274	D	221	D	82.1	65	N	P
Cobalt	mg/Kg	75 - 125	77.7		12.5		82.1	79		P
Copper	mg/Kg	75 - 125	854		226		820	76		P
Iron	mg/Kg	75 - 125	31400		32400		4100	-26		P
Lead	mg/Kg	75 - 125	627		291		410	82		P
Magnesium	mg/Kg	75 - 125	14300		8160		8200	75		P
Manganese	mg/Kg	75 - 125	988		425		820	69	N	P
Nickel	mg/Kg	75 - 125	126		63.5		82.1	76		P
Mercury	mg/Kg	80 - 120	2.53	D	2.62	D	0.43	-20		CV
Potassium	mg/Kg	75 - 125	5610		2840		4100	67	N	P
Selenium	mg/Kg	75 - 125	73.9	D	4.03	UD	82.1	88		P
Silver	mg/Kg	75 - 125	17.8		6.57		82.1	14	N	P
Sodium	mg/Kg	75 - 125	13300		6970		8200	77		P
Thallium	mg/Kg	75 - 125	69.2		0.30		82.1	84		P
Vanadium	mg/Kg	75 - 125	109		46.5		82.1	76		P
Zinc	mg/Kg	75 - 125	1030		395		820	77		P

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- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: <u>AECOM</u>	level: <u>low</u>	sdg no.: <u>Q3419</u>
contract: <u>AECO02</u>		lab code: <u>ACE</u>
matrix: <u>Solid</u>	sample id: <u>Q3419-01</u>	client id: <u>PR-132-S16-015094-20251021MSD</u>
Percent Solids for Sample: 54.4	Spiked ID: Q3419-03	Percent Solids for Spike Sample: 54.4

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	11000		11700		1600	-47		P
Antimony	mg/Kg	75 - 125	68.6		0.17	J	77.9	88		P
Arsenic	mg/Kg	75 - 125	89.3	D	19.3	D	77.9	90		P
Barium	mg/Kg	75 - 125	449		155		390	75		P
Beryllium	mg/Kg	75 - 125	67.3		0.97		77.9	85		P
Cadmium	mg/Kg	75 - 125	72.6		5.71		77.9	86		P
Calcium	mg/Kg	75 - 125	13100		8400		7800	60	N	P
Chromium	mg/Kg	75 - 125	262	D	221	D	77.9	53	N	P
Cobalt	mg/Kg	75 - 125	73.1		12.5		77.9	78		P
Copper	mg/Kg	75 - 125	806		226		780	74	N	P
Iron	mg/Kg	75 - 125	29700		32400		3900	-71		P
Lead	mg/Kg	75 - 125	599		291		390	79		P
Magnesium	mg/Kg	75 - 125	13600		8160		7800	70	N	P
Manganese	mg/Kg	75 - 125	934		425		780	65	N	P
Nickel	mg/Kg	75 - 125	120		63.5		77.9	72	N	P
Mercury	mg/Kg	80 - 120	2.62	D	2.62	D	0.48	0		CV
Potassium	mg/Kg	75 - 125	5310		2840		3900	63	N	P
Selenium	mg/Kg	75 - 125	70.8	D	4.03	UD	77.9	89		P
Silver	mg/Kg	75 - 125	16.8		6.57		77.9	13	N	P
Sodium	mg/Kg	75 - 125	12400		6970		7800	70	N	P
Thallium	mg/Kg	75 - 125	64.0		0.30		77.9	82		P
Vanadium	mg/Kg	75 - 125	103		46.5		77.9	72	N	P
Zinc	mg/Kg	75 - 125	970		395		780	74	N	P