

metals
- 5a -
MATRIX SPIKE SUMMARY

client: AECOM **level:** low **sdg no.:** Q3363
contract: AECO02 **lab code:** ACE
matrix: Solid **sample id:** Q3352-01 **client id:** TP-3MS
Percent Solids for Sample: 89.8 **Spiked ID:** Q3352-01MS **Percent Solids for Spike Sample:** 89.8

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.30		0.014	U	0.28	105		CV

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MATRIX SPIKE DUPLICATE SUMMARY

client:	<u>AECOM</u>	level:	<u>low</u>	sdg no.:	<u>Q3363</u>
contract:	<u>AECO02</u>			lab code:	<u>ACE</u>
matrix:	<u>Solid</u>	sample id:	<u>Q3352-01</u>	client id:	<u>TP-3MSD</u>
Percent Solids for Sample:	89.8	Spiked ID:	Q3352-01MSD	Percent Solids for Spike Sample:	89.8

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.30		0.014	U	0.28	106		CV

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MATRIX SPIKE SUMMARY

client: AECOM **level:** low **sdg no.:** Q3363
contract: AECO02 **lab code:** ACE
matrix: Solid **sample id:** Q3363-05 **client id:** COMP01-20251015MS

Percent Solids for Sample: 55.4 **Spiked ID:** Q3363-05MS **Percent Solids for Spike Sample:** 55.4

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	17500	D	18800	D	1600	-83		P
Antimony	mg/Kg	75 - 125	77.8		0.15	J	80.6	96		P
Arsenic	mg/Kg	75 - 125	61.4	D	72.7	D	80.6	-14	N	P
Barium	mg/Kg	75 - 125	452		137		400	78		P
Beryllium	mg/Kg	75 - 125	74.6		1.10		80.6	91		P
Cadmium	mg/Kg	75 - 125	76.5		0.98		80.6	94		P
Calcium	mg/Kg	75 - 125	11100		5160		8100	74	N	P
Chromium	mg/Kg	75 - 125	135		81.8		80.6	66	N	P
Cobalt	mg/Kg	75 - 125	80.3		13.9		80.6	82		P
Copper	mg/Kg	75 - 125	785		207		810	72	N	P
Iron	mg/Kg	75 - 125	42000	D	45900	D	4000	-96		P
Lead	mg/Kg	75 - 125	730	D	414	D	400	78		P
Magnesium	mg/Kg	75 - 125	13600		7760		8100	73	N	P
Manganese	mg/Kg	75 - 125	1360		836		810	65	N	P
Nickel	mg/Kg	75 - 125	103		45.6		80.6	71	N	P
Potassium	mg/Kg	75 - 125	5920		3190		4000	68	N	P
Selenium	mg/Kg	75 - 125	73.7	D	3.89	UD	80.6	89		P
Silver	mg/Kg	75 - 125	13.8		1.34		80.6	15	N	P
Sodium	mg/Kg	75 - 125	9970		3530		8100	80		P
Thallium	mg/Kg	75 - 125	74.6		0.24		80.6	92		P
Vanadium	mg/Kg	75 - 125	111		45.6		80.6	81		P
Zinc	mg/Kg	75 - 125	885		308		810	72	N	P

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MATRIX SPIKE DUPLICATE SUMMARY

client: <u>AECOM</u>	level: <u>low</u>	sdg no.: <u>Q3363</u>
contract: <u>AECO02</u>		lab code: <u>ACE</u>
matrix: <u>Solid</u>	sample id: <u>Q3363-05</u>	client id: <u>COMP01-20251015MSD</u>
Percent Solids for Sample: 55.4	Spiked ID: Q3363-05MSD	Percent Solids for Spike Sample: 55.4

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	17300	D	18800	D	1600	-99		P
Antimony	mg/Kg	75 - 125	74.2		0.15	J	77.8	95		P
Arsenic	mg/Kg	75 - 125	61.8	D	72.7	D	77.8	-14	N	P
Barium	mg/Kg	75 - 125	464		137		390	84		P
Beryllium	mg/Kg	75 - 125	68.7		1.10		77.8	87		P
Cadmium	mg/Kg	75 - 125	72.6		0.98		77.8	92		P
Calcium	mg/Kg	75 - 125	12200		5160		7800	91		P
Chromium	mg/Kg	75 - 125	138		81.8		77.8	72	N	P
Cobalt	mg/Kg	75 - 125	77.3		13.9		77.8	82		P
Copper	mg/Kg	75 - 125	804		207		780	77		P
Iron	mg/Kg	75 - 125	42100	D	45900	D	3900	-98		P
Lead	mg/Kg	75 - 125	725	D	414	D	390	80		P
Magnesium	mg/Kg	75 - 125	14500		7760		7800	86		P
Manganese	mg/Kg	75 - 125	1360		836		780	68	N	P
Nickel	mg/Kg	75 - 125	108		45.6		77.8	80		P
Potassium	mg/Kg	75 - 125	6120		3190		3900	75		P
Selenium	mg/Kg	75 - 125	74.6	D	3.89	UD	77.8	94		P
Silver	mg/Kg	75 - 125	13.3		1.34		77.8	15	N	P
Sodium	mg/Kg	75 - 125	10500		3530		7800	89		P
Thallium	mg/Kg	75 - 125	70.7		0.24		77.8	91		P
Vanadium	mg/Kg	75 - 125	109		45.6		77.8	82		P
Zinc	mg/Kg	75 - 125	873		308		780	73	N	P