

metals
- 5a -
MATRIX SPIKE SUMMARY

client: AECOM **level:** low **sdg no.:** Q3375
contract: AECO02 **lab code:** ACE
matrix: Solid **sample id:** Q3374-05 **client id:** TP-5-WCMS

Percent Solids for Sample: 93.1 **Spiked ID:** Q3374-05MS **Percent Solids for Spike Sample:** 93.1

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.27		0.013	U	0.28	96		CV

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MATRIX SPIKE DUPLICATE SUMMARY

client:	<u>AECOM</u>	level:	<u>low</u>	sdg no.:	<u>Q3375</u>
contract:	<u>AECO02</u>			lab code:	<u>ACE</u>
matrix:	<u>Solid</u>	sample id:	<u>Q3374-05</u>	client id:	<u>TP-5-WCMSD</u>

Percent Solids for Sample:	93.1	Spiked ID:	Q3374-05MSD	Percent Solids for Spike Sample:	93.1
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Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.27		0.013	U	0.28	96		CV

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MATRIX SPIKE SUMMARY

client: AECOM **level:** low **sdg no.:** Q3375
contract: AECO02 **lab code:** ACE
matrix: Solid **sample id:** Q3376-05 **client id:** PR132-S12-020047-20251016MS
Percent Solids for Sample: 66.8 **Spiked ID:** Q3376-05MS **Percent Solids for Spike Sample:** 66.8

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	7710		6330		1300	109		P
Antimony	mg/Kg	75 - 125	60.1		0.080	J	63.4	95		P
Arsenic	mg/Kg	75 - 125	62.1		7.86		63.4	85		P
Barium	mg/Kg	75 - 125	337		52.4		320	90		P
Beryllium	mg/Kg	75 - 125	57.5		0.74		63.4	89		P
Cadmium	mg/Kg	75 - 125	61.4		1.03		63.4	95		P
Calcium	mg/Kg	75 - 125	11100		4870		6300	99		P
Chromium	mg/Kg	75 - 125	116		49.4		63.4	106		P
Cobalt	mg/Kg	75 - 125	65.6		8.16		63.4	91		P
Copper	mg/Kg	75 - 125	646		103		630	86		P
Iron	mg/Kg	75 - 125	21200		17500		3200	116		P
Lead	mg/Kg	75 - 125	455		235		320	69	N	P
Magnesium	mg/Kg	75 - 125	13400		7170		6300	98		P
Manganese	mg/Kg	75 - 125	753		199		630	87		P
Nickel	mg/Kg	75 - 125	115		56.0		63.4	93		P
Potassium	mg/Kg	75 - 125	4290		1500		3200	88		P
Selenium	mg/Kg	75 - 125	51.5		0.59	J	63.4	80		P
Silver	mg/Kg	75 - 125	11.9		1.80		63.4	16	N	P
Sodium	mg/Kg	75 - 125	11000		4580		6300	101		P
Thallium	mg/Kg	75 - 125	58.8		0.22		63.4	92		P
Vanadium	mg/Kg	75 - 125	80.1		20.6		63.4	94		P
Zinc	mg/Kg	75 - 125	794		259		630	84		P

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MATRIX SPIKE DUPLICATE SUMMARY

client: AECOM **level:** low **sdg no.:** Q3375
contract: AECO02 **lab code:** ACE
matrix: Solid **sample id:** Q3376-05 **client id:** PR132-S12-020047-20251016MSD
Percent Solids for Sample: 66.8 **Spiked ID:** Q3376-05MSD **Percent Solids for Spike Sample:** 66.8

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	7900		6330		1300	122		P
Antimony	mg/Kg	75 - 125	60.9		0.080	J	64.5	94		P
Arsenic	mg/Kg	75 - 125	63.1		7.86		64.5	86		P
Barium	mg/Kg	75 - 125	341		52.4		320	90		P
Beryllium	mg/Kg	75 - 125	59.8		0.74		64.5	92		P
Cadmium	mg/Kg	75 - 125	61.3		1.03		64.5	93		P
Calcium	mg/Kg	75 - 125	11300		4870		6500	100		P
Chromium	mg/Kg	75 - 125	119		49.4		64.5	108		P
Cobalt	mg/Kg	75 - 125	66.4		8.16		64.5	90		P
Copper	mg/Kg	75 - 125	657		103		650	86		P
Iron	mg/Kg	75 - 125	21600		17500		3200	127		P
Lead	mg/Kg	75 - 125	473		235		320	74	N	P
Magnesium	mg/Kg	75 - 125	13500		7170		6500	99		P
Manganese	mg/Kg	75 - 125	765		199		650	88		P
Nickel	mg/Kg	75 - 125	116		56.0		64.5	93		P
Potassium	mg/Kg	75 - 125	4350		1500		3200	88		P
Selenium	mg/Kg	75 - 125	53.6		0.59	J	64.5	82		P
Silver	mg/Kg	75 - 125	12.1		1.80		64.5	16	N	P
Sodium	mg/Kg	75 - 125	11100		4580		6500	101		P
Thallium	mg/Kg	75 - 125	60.8		0.22		64.5	94		P
Vanadium	mg/Kg	75 - 125	81.7		20.6		64.5	95		P
Zinc	mg/Kg	75 - 125	801		259		650	84		P