

metals
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MATRIX SPIKE SUMMARY

client: AECOM **level:** low **sdg no.:** Q3376
contract: AECO02 **lab code:** ACE
matrix: Water **sample id:** Q3370-01 **client id:** WATER-TREATMENT DISCHARGEMS
Percent Solids for Sample: NA **Spiked ID:** Q3370-01MS **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/L	75 - 125	1590		663		1000	93		P
Antimony	ug/L	75 - 125	396		25.0	U	400	99		P
Arsenic	ug/L	75 - 125	382		10.0	U	400	96		P
Barium	ug/L	75 - 125	115		23.9	J	100	91		P
Beryllium	ug/L	75 - 125	85.9		3.00	U	100	86		P
Cadmium	ug/L	75 - 125	87.9		3.00	U	100	88		P
Calcium	ug/L	75 - 125	26000		25100		500	182		P
Chromium	ug/L	75 - 125	202		15.2		200	93		P
Cobalt	ug/L	75 - 125	91.5		15.0	U	100	92		P
Copper	ug/L	75 - 125	157		17.7		150	93		P
Iron	ug/L	75 - 125	1660		185		1500	98		P
Lead	ug/L	75 - 125	423		6.00	U	500	85		P
Magnesium	ug/L	75 - 125	9690		8620		1000	107		P
Manganese	ug/L	75 - 125	101		10.6		100	90		P
Nickel	ug/L	75 - 125	244		16.9	J	250	91		P
Potassium	ug/L	75 - 125	16600		11700		5000	98		P
Selenium	ug/L	75 - 125	958		10.0	U	1000	96		P
Silver	ug/L	75 - 125	33.2		5.00	U	37.5	88		P
Sodium	ug/L	75 - 125	102000		101000		1500	37		P
Thallium	ug/L	75 - 125	828		20.0	U	1000	83		P
Vanadium	ug/L	75 - 125	139		20.0	U	150	93		P
Zinc	ug/L	75 - 125	777		661		100	116		P

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MATRIX SPIKE DUPLICATE SUMMARY

client: <u>AECOM</u>	level: <u>low</u>	sdg no.: <u>Q3376</u>
contract: <u>AECO02</u>		lab code: <u>ACE</u>
matrix: <u>Water</u>	sample id: <u>Q3370-01</u>	client id: <u>WATER-TREATMENT DISCHARGEMSD</u>
Percent Solids for Sample: <u>NA</u>	Spiked ID: <u>Q3370-01MSD</u>	Percent Solids for Spike Sample: <u>NA</u>

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/L	75 - 125	1590		663		1000	92		P
Antimony	ug/L	75 - 125	399		25.0	U	400	100		P
Arsenic	ug/L	75 - 125	383		10.0	U	400	96		P
Barium	ug/L	75 - 125	117		23.9	J	100	93		P
Beryllium	ug/L	75 - 125	87.4		3.00	U	100	87		P
Cadmium	ug/L	75 - 125	88.5		3.00	U	100	88		P
Calcium	ug/L	75 - 125	25600		25100		500	103		P
Chromium	ug/L	75 - 125	200		15.2		200	93		P
Cobalt	ug/L	75 - 125	92.2		15.0	U	100	92		P
Copper	ug/L	75 - 125	158		17.7		150	93		P
Iron	ug/L	75 - 125	1680		185		1500	100		P
Lead	ug/L	75 - 125	427		6.00	U	500	85		P
Magnesium	ug/L	75 - 125	9570		8620		1000	95		P
Manganese	ug/L	75 - 125	104		10.6		100	93		P
Nickel	ug/L	75 - 125	245		16.9	J	250	91		P
Potassium	ug/L	75 - 125	16400		11700		5000	94		P
Selenium	ug/L	75 - 125	961		10.0	U	1000	96		P
Silver	ug/L	75 - 125	33.5		5.00	U	37.5	89		P
Sodium	ug/L	75 - 125	102000		101000		1500	18		P
Thallium	ug/L	75 - 125	817		20.0	U	1000	82		P
Vanadium	ug/L	75 - 125	142		20.0	U	150	95		P
Zinc	ug/L	75 - 125	761		661		100	100		P

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MATRIX SPIKE SUMMARY

client: AECOM **level:** low **sdg no.:** Q3376
contract: AECO02 **lab code:** ACE
matrix: Water **sample id:** Q3390-07 **client id:** 4090MS
Percent Solids for Sample: NA **Spiked ID:** Q3390-07MS **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ug/L	75 - 125	2.97		0.20	U	4.0	74	N	CV

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MATRIX SPIKE DUPLICATE SUMMARY

client: AECOM **level:** low **sdg no.:** Q3376
contract: AECO02 **lab code:** ACE
matrix: Water **sample id:** Q3390-07 **client id:** 4090MSD
Percent Solids for Sample: NA **Spiked ID:** Q3390-07MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ug/L	75 - 125	2.74		0.20	U	4.0	68	N	CV