

metals
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MATRIX SPIKE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** Q2832
contract: PORT06 **lab code:** ACE
matrix: Solid **sample id:** Q2832-09 **client id:** TG-S05MS

Percent Solids for Sample: 90.9 **Spiked ID:** Q2832-09MS **Percent Solids for Spike Sample:** 90.9

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	2950		3310		95.2	-374		P
Antimony	mg/Kg	75 - 125	40.0		7.25		38.1	86		P
Arsenic	mg/Kg	75 - 125	62.4		23.7		38.1	101		P
Barium	mg/Kg	75 - 125	217		217		9.5	4		P
Beryllium	mg/Kg	75 - 125	8.78		0.83		9.5	84		P
Cadmium	mg/Kg	75 - 125	11.1		1.71		9.5	98		P
Calcium	mg/Kg	75 - 125	3430		4400		47.6	-2032		P
Chromium	mg/Kg	75 - 125	47.1		40.4		19.0	35	N	P
Cobalt	mg/Kg	75 - 125	16.1		7.36		9.5	92		P
Copper	mg/Kg	75 - 125	236		206		14.3	210		P
Iron	mg/Kg	75 - 125	38600		35300		140	2387		P
Lead	mg/Kg	75 - 125	514		544		47.6	-63		P
Magnesium	mg/Kg	75 - 125	942		1030		95.2	-94		P
Manganese	mg/Kg	75 - 125	166		162		9.5	41		P
Nickel	mg/Kg	75 - 125	47.1		26.0		23.8	89		P
Potassium	mg/Kg	75 - 125	934		479		480	95		P
Selenium	mg/Kg	75 - 125	90.1		2.73		95.2	92		P
Silver	mg/Kg	75 - 125	4.97		1.19		3.6	105		P
Sodium	mg/Kg	75 - 125	274		162		140	80		P
Thallium	mg/Kg	75 - 125	78.9		1.87	U	95.2	83		P
Vanadium	mg/Kg	75 - 125	37.3		28.5		14.3	62	N	P
Zinc	mg/Kg	75 - 125	113		118		9.5	-55		P

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MATRIX SPIKE DUPLICATE SUMMARY

client: <u>Portal Partners Tri-Venture</u>	level: <u>low</u>	sdg no.: <u>Q2832</u>
contract: <u>PORT06</u>		lab code: <u>ACE</u>
matrix: <u>Solid</u>	sample id: <u>Q2832-09</u>	client id: <u>TG-S05MSD</u>

Percent Solids for Sample: 90.9	Spiked ID: Q2832-09MSD	Percent Solids for Spike Sample: 90.9
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Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	2950		3310		94.8	-379		P
Antimony	mg/Kg	75 - 125	39.5		7.25		37.9	85		P
Arsenic	mg/Kg	75 - 125	61.4		23.7		37.9	99		P
Barium	mg/Kg	75 - 125	208		217		9.5	-97		P
Beryllium	mg/Kg	75 - 125	8.71		0.83		9.5	83		P
Cadmium	mg/Kg	75 - 125	11.0		1.71		9.5	98		P
Calcium	mg/Kg	75 - 125	3510		4400		47.4	-1873		P
Chromium	mg/Kg	75 - 125	53.9		40.4		19.0	71	N	P
Cobalt	mg/Kg	75 - 125	16.7		7.36		9.5	99		P
Copper	mg/Kg	75 - 125	231		206		14.2	175		P
Iron	mg/Kg	75 - 125	35300		35300		140	-10		P
Lead	mg/Kg	75 - 125	521		544		47.4	-49		P
Magnesium	mg/Kg	75 - 125	1060		1030		94.8	27		P
Manganese	mg/Kg	75 - 125	221		162		9.5	619		P
Nickel	mg/Kg	75 - 125	49.4		26.0		23.7	99		P
Potassium	mg/Kg	75 - 125	931		479		470	96		P
Selenium	mg/Kg	75 - 125	89.5		2.73		94.8	92		P
Silver	mg/Kg	75 - 125	4.66		1.19		3.6	97		P
Sodium	mg/Kg	75 - 125	263		162		140	72	N	P
Thallium	mg/Kg	75 - 125	76.6		1.87	U	94.8	81		P
Vanadium	mg/Kg	75 - 125	41.4		28.5		14.2	91		P
Zinc	mg/Kg	75 - 125	110		118		9.5	-87		P

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MATRIX SPIKE SUMMARY

client:	<u>Portal Partners Tri-Venture</u>	level:	<u>low</u>	sdg no.:	<u>Q2832</u>
contract:	<u>PORT06</u>			lab code:	<u>ACE</u>
matrix:	<u>Solid</u>	sample id:	<u>Q2840-01</u>	client id:	<u>0804-SOILMS</u>
Percent Solids for Sample:	82.2	Spiked ID:	Q2840-01MS	Percent Solids for Spike Sample:	82.2

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.38		0.17		0.3	72	N	CV

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MATRIX SPIKE DUPLICATE SUMMARY

client:	<u>Portal Partners Tri-Venture</u>	level:	<u>low</u>	sdg no.:	<u>Q2832</u>
contract:	<u>PORT06</u>			lab code:	<u>ACE</u>
matrix:	<u>Solid</u>	sample id:	<u>Q2840-01</u>	client id:	<u>0804-SOILMSD</u>
Percent Solids for Sample:	82.2	Spiked ID:	Q2840-01MSD	Percent Solids for Spike Sample:	82.2

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.54		0.17		0.33	113		CV