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MATRIX SPIKE SUMMARY

client: <u>Portal Partners Tri-Venture</u>	level: <u>low</u>	sdg no.: <u>Q1901</u>
contract: <u>PORT06</u>	lab code: <u>CHEM</u>	case no.: <u>Q1901</u> sas no.: <u>Q1901</u>
matrix: <u>Water</u>	sample id: <u>Q1896-03</u>	client id: <u>295-BERGEN-FRACMS</u>
Percent Solids for Sample: <u>NA</u>	Spiked ID: <u>Q1896-03MS</u>	Percent Solids for Spike Sample: <u>NA</u>

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ug/L	75 - 125	3.88		1.03		4.0	71	N	CV

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MATRIX SPIKE DUPLICATE SUMMARY

client: <u>Portal Partners Tri-Venture</u>	level: <u>low</u>	sdg no.: <u>Q1901</u>
contract: <u>PORT06</u>	lab code: <u>CHEM</u>	case no.: <u>Q1901</u> sas no.: <u>Q1901</u>
matrix: <u>Water</u>	sample id: <u>Q1896-03</u>	client id: <u>295-BERGEN-FRACMSD</u>
Percent Solids for Sample: <u>NA</u>	Spiked ID: <u>Q1896-03MSD</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
Mercury	ug/L	75 - 125	3.80		1.03		4.0	69	N	CV

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MATRIX SPIKE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** Q1901
contract: PORT06 **lab code:** CHEM **case no.:** Q1901 **sas no.:** Q1901
matrix: Solid **sample id:** Q1901-02 **client id:** B-167-SB01MS
Percent Solids for Sample: 82.6 **Spiked ID:** Q1901-02MS **Percent Solids for Spike Sample:** 82.6

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.34		0.039		0.33	90		CV

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MATRIX SPIKE DUPLICATE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** Q1901
contract: PORT06 **lab code:** CHEM **case no.:** Q1901 **sas no.:** Q1901
matrix: Solid **sample id:** Q1901-02 **client id:** B-167-SB01MSD
Percent Solids for Sample: 82.6 **Spiked ID:** Q1901-02MSD **Percent Solids for Spike Sample:** 82.6

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.31		0.039		0.3	92		CV

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MATRIX SPIKE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** Q1901
contract: PORT06 **lab code:** CHEM **case no.:** Q1901 **sas no.:** Q1901
matrix: Water **sample id:** Q1901-06 **client id:** FB04262025MS
Percent Solids for Sample: NA **Spiked ID:** Q1901-06MS **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	906		6.11	J	1000	90		P
Antimony	ug/L	75 - 125	382		25.0	U	400	96		P
Arsenic	ug/L	75 - 125	372		10.0	U	400	93		P
Barium	ug/L	75 - 125	87.6		50.0	U	100	88		P
Beryllium	ug/L	75 - 125	81.0		3.00	U	100	81		P
Cadmium	ug/L	75 - 125	92.0		3.00	U	100	92		P
Calcium	ug/L	75 - 125	476	J	1000	U	500	95		P
Chromium	ug/L	75 - 125	187		5.00	U	200	94		P
Cobalt	ug/L	75 - 125	91.3		15.0	U	100	91		P
Copper	ug/L	75 - 125	143		10.0	U	150	95		P
Iron	ug/L	75 - 125	1440		50.0	U	1500	96		P
Lead	ug/L	75 - 125	454		6.00	U	500	91		P
Magnesium	ug/L	75 - 125	894	J	1000	U	1000	89		P
Manganese	ug/L	75 - 125	91.6		6.66	J	100	85		P
Nickel	ug/L	75 - 125	230		20.0	U	250	92		P
Potassium	ug/L	75 - 125	4650		1000	U	5000	93		P
Selenium	ug/L	75 - 125	900		10.0	U	1000	90		P
Silver	ug/L	75 - 125	33.3		5.00	U	37.5	89		P
Sodium	ug/L	75 - 125	1380		1000	U	1500	92		P
Thallium	ug/L	75 - 125	952		20.0	U	1000	95		P
Vanadium	ug/L	75 - 125	138		20.0	U	150	92		P
Zinc	ug/L	75 - 125	100		20.0	U	100	100		P

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MATRIX SPIKE DUPLICATE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** Q1901
contract: PORT06 **lab code:** CHEM **case no.:** Q1901 **sas no.:** Q1901
matrix: Water **sample id:** Q1901-06 **client id:** FB04262025MSD
Percent Solids for Sample: NA **Spiked ID:** Q1901-06MSD **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/L	75 - 125	944		6.11	J	1000	94		P
Antimony	ug/L	75 - 125	393		25.0	U	400	98		P
Arsenic	ug/L	75 - 125	380		10.0	U	400	95		P
Barium	ug/L	75 - 125	89.6		50.0	U	100	90		P
Beryllium	ug/L	75 - 125	88.5		3.00	U	100	88		P
Cadmium	ug/L	75 - 125	94.4		3.00	U	100	94		P
Calcium	ug/L	75 - 125	495	J	1000	U	500	99		P
Chromium	ug/L	75 - 125	196		5.00	U	200	98		P
Cobalt	ug/L	75 - 125	93.9		15.0	U	100	94		P
Copper	ug/L	75 - 125	147		10.0	U	150	98		P
Iron	ug/L	75 - 125	1450		50.0	U	1500	97		P
Lead	ug/L	75 - 125	465		6.00	U	500	93		P
Magnesium	ug/L	75 - 125	940	J	1000	U	1000	94		P
Manganese	ug/L	75 - 125	98.3		6.66	J	100	92		P
Nickel	ug/L	75 - 125	236		20.0	U	250	94		P
Potassium	ug/L	75 - 125	4750		1000	U	5000	95		P
Selenium	ug/L	75 - 125	923		10.0	U	1000	92		P
Silver	ug/L	75 - 125	35.5		5.00	U	37.5	95		P
Sodium	ug/L	75 - 125	1420		1000	U	1500	95		P
Thallium	ug/L	75 - 125	959		20.0	U	1000	96		P
Vanadium	ug/L	75 - 125	143		20.0	U	150	95		P
Zinc	ug/L	75 - 125	98.4		20.0	U	100	98		P

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MATRIX SPIKE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** Q1901
contract: PORT06 **lab code:** CHEM **case no.:** Q1901 **sas no.:** Q1901
matrix: Solid **sample id:** Q1902-02 **client id:** 343MS
Percent Solids for Sample: 90.3 **Spiked ID:** Q1902-02MS **Percent Solids for Spike Sample:** 90.3

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	8240		6010		100	2229		P
Antimony	mg/Kg	75 - 125	14.9		2.38	U	42.0	36	N	P
Arsenic	mg/Kg	75 - 125	39.6		2.97		42.0	87		P
Barium	mg/Kg	75 - 125	58.6		44.1		10.5	138		P
Beryllium	mg/Kg	75 - 125	10.3		0.40		10.5	95		P
Cadmium	mg/Kg	75 - 125	11.0		0.28	U	10.5	104		P
Calcium	mg/Kg	75 - 125	1100		817		52.5	535		P
Chromium	mg/Kg	75 - 125	33.0		10.6		21.0	107		P
Cobalt	mg/Kg	75 - 125	16.6		5.01		10.5	110		P
Copper	mg/Kg	75 - 125	28.0		11.1		15.7	107		P
Iron	mg/Kg	75 - 125	12800		11500		160	851		P
Lead	mg/Kg	75 - 125	93.6		32.1		52.5	117		P
Magnesium	mg/Kg	75 - 125	2320		1650		100	668		P
Manganese	mg/Kg	75 - 125	306		278		10.5	271		P
Nickel	mg/Kg	75 - 125	38.4		9.50		26.2	110		P
Potassium	mg/Kg	75 - 125	1180		627		520	107		P
Selenium	mg/Kg	75 - 125	84.8		0.25	J	100	85		P
Silver	mg/Kg	75 - 125	3.56		0.19	J	3.9	86		P
Sodium	mg/Kg	75 - 125	255		131		160	77		P
Thallium	mg/Kg	75 - 125	103		0.24	J	100	103		P
Vanadium	mg/Kg	75 - 125	31.2		14.5		15.7	107		P
Zinc	mg/Kg	75 - 125	71.3		47.4		10.5	227		P

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MATRIX SPIKE DUPLICATE SUMMARY

client: Portal Partners Tri-Venture **level:** low **sdg no.:** Q1901
contract: PORT06 **lab code:** CHEM **case no.:** Q1901 **sas no.:** Q1901
matrix: Solid **sample id:** Q1902-02 **client id:** 343MSD
Percent Solids for Sample: 90.3 **Spiked ID:** Q1902-02MSD **Percent Solids for Spike Sample:** 90.3

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	6230		6010		91.9	239		P
Antimony	mg/Kg	75 - 125	14.0		2.38	U	36.8	38	N	P
Arsenic	mg/Kg	75 - 125	34.9		2.97		36.8	87		P
Barium	mg/Kg	75 - 125	55.3		44.1		9.2	122		P
Beryllium	mg/Kg	75 - 125	8.37		0.40		9.2	87		P
Cadmium	mg/Kg	75 - 125	9.35		0.28	U	9.2	102		P
Calcium	mg/Kg	75 - 125	944		817		46.0	276		P
Chromium	mg/Kg	75 - 125	27.8		10.6		18.4	93		P
Cobalt	mg/Kg	75 - 125	14.2		5.01		9.2	100		P
Copper	mg/Kg	75 - 125	21.7		11.1		13.8	77		P
Iron	mg/Kg	75 - 125	11300		11500		140	-161		P
Lead	mg/Kg	75 - 125	74.8		32.1		46.0	93		P
Magnesium	mg/Kg	75 - 125	1860		1650		91.9	223		P
Manganese	mg/Kg	75 - 125	331		278		9.2	585		P
Nickel	mg/Kg	75 - 125	33.2		9.50		23.0	103		P
Potassium	mg/Kg	75 - 125	1140		627		460	111		P
Selenium	mg/Kg	75 - 125	75.6		0.25	J	91.9	82		P
Silver	mg/Kg	75 - 125	3.26		0.19	J	3.4	90		P
Sodium	mg/Kg	75 - 125	240		131		140	78		P
Thallium	mg/Kg	75 - 125	90.5		0.24	J	91.9	98		P
Vanadium	mg/Kg	75 - 125	25.9		14.5		13.8	82		P
Zinc	mg/Kg	75 - 125	53.7		47.4		9.2	68		P