



**BUREAU
VERITAS**

MINERAL LABORATORIES
Canada

www.bvna.com/mining-laboratory-services

Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

Client:

Palmer

470 Granville St. - Suite 630

Vancouver British Columbia V6C 1V5 Canada

Submitted By: Dave Sacco
Receiving Lab: Canada-Vancouver
Received: November 15, 2022
Analysis Start: December 13, 2022
Report Date: February 07, 2023
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CERTIFICATE OF ANALYSIS

VAN22003106.1

CLIENT JOB INFORMATION

Project: AER
Shipment ID: 30969652
P.O. Number: 2207801
Number of Samples: 118

SAMPLE DISPOSAL

IMM-PLP Return immediately after analysis
DISP-RJT-SOIL Immediate Disposal of Soil Reject

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

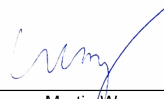
Invoice To: Palmer
470 Granville St. - Suite 630
Vancouver British Columbia V6C 1V5
Canada

CC: Dean Meek

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SS230	106	Dry at 60C sieve 100g to -230 mesh			VAN
SLBHP	12	Sort, label and box pulps			VAN
LF100-EXT	118	LiBO2/Li2B4O7 fusion ICP-MS analysis	0.2	Completed	VAN
LF300	118	LiBO2/Li2B4O7 fusion ICP-ES analysis	0.2	Completed	VAN
AQ251_EXT_REE	118	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	15	Completed	VAN

ADDITIONAL COMMENTS


Martin Wong
Data Validation Specialist

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
*** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Method Analyte Unit MDL		WGHT	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100
		Wgt	Ba	Be	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	La	Ce
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	1	1	0.2	0.1	0.5	0.1	0.1	0.1	1	0.5	0.1	0.2	0.1	8	0.5	0.1	0.1	0.1	0.1
AERSR221001	Pulp DUP		694	<1	6.5	5.4	11.3	24.4	12.8	72.7	2	105.9	1.1	11.8	5.2	111	1.9	1026.7	35.8	39.1	71.1
AERSR221002	Stream	2.42	1092	<1	7.2	5.3	15.1	16.8	18.5	94.8	2	271.7	1.0	11.3	4.1	134	1.5	668.4	29.5	39.7	69.5
AERSR221003	Stream	2.43	959	<1	9.8	5.7	12.6	10.7	12.4	83.5	1	189.3	1.0	9.6	3.9	137	1.5	424.6	29.7	33.7	62.0
AERSR221004	Stream	2.64	716	1	8.1	5.3	10.7	16.1	12.4	71.6	3	135.3	0.8	10.1	3.7	122	1.3	639.0	27.2	30.8	59.3
AERSR221005	Stream	2.31	1114	<1	6.0	6.3	15.8	11.0	23.0	114.4	2	445.5	1.1	12.1	4.9	112	1.7	433.8	23.9	45.0	75.1
AERSR221006	Stream	1.74	578	<1	7.0	6.5	11.1	19.9	12.3	80.5	2	97.5	1.0	11.6	4.5	95	1.2	830.4	34.4	38.7	71.8
AERSR221007	Stream	1.92	676	<1	6.5	5.0	10.6	24.8	12.3	70.8	1	108.7	0.7	11.6	5.4	105	1.9	1008.5	34.4	38.0	71.3
AERSR221008	Stream	2.05	572	2	6.8	6.3	11.4	18.8	12.5	76.6	2	92.4	0.7	11.4	4.4	95	1.8	746.1	31.2	40.3	73.8
AERSR221009	Stream	2.14	470	3	4.6	3.5	7.5	13.7	8.9	53.3	2	91.5	0.8	7.6	3.3	87	0.9	528.2	24.3	26.2	45.5
AERSR221010	Stream	1.74	733	<1	7.8	5.5	11.9	10.9	11.2	84.2	1	111.1	0.7	9.2	4.0	136	1.4	433.3	30.7	34.6	59.9
AERSR221011	Stream	2.57	492	2	6.4	3.3	7.7	13.7	9.6	54.1	1	98.4	0.5	7.8	3.4	95	1.2	560.8	27.4	27.9	49.6
AERSR221012	Rock Pulp	0.07	493	<1	51.4	2.2	13.4	4.1	16.4	38.5	6	420.6	0.4	3.6	0.7	66	<0.5	171.6	11.1	33.1	56.9
AERSR221013	Stream	1.79	618	<1	4.8	4.2	9.7	15.6	9.6	68.5	<1	97.9	0.6	7.4	3.3	112	1.6	622.6	27.4	29.1	47.5
AERSR221014	Stream	1.63	727	2	5.5	4.3	9.6	26.8	12.3	69.0	1	93.1	1.0	10.9	4.5	117	0.9	1114.4	34.0	35.4	65.2
AERSR221015	Stream	2.04	763	<1	7.5	6.5	13.5	14.9	12.6	89.4	1	99.7	0.8	12.0	4.2	128	1.0	619.9	30.1	39.4	70.5
AERSR221016	Stream	2.30	668	<1	5.9	4.7	11.3	14.1	11.7	73.4	<1	142.5	0.6	9.2	3.3	113	1.4	585.2	25.8	32.4	57.7
AERSR221017	Stream	1.08	786	<1	7.0	4.8	13.6	9.7	9.6	69.7	1	254.8	0.7	7.4	3.4	121	1.2	373.1	27.3	26.2	44.7
AERSR221018	Stream	3.02	771	3	7.3	5.5	14.1	7.4	9.8	74.3	2	207.0	0.5	7.4	3.4	117	1.2	298.1	24.5	27.4	51.5
AERSR221019	Stream	2.78	885	<1	8.7	5.5	14.2	8.4	12.4	79.0	1	173.9	0.8	9.4	3.7	148	1.1	351.8	27.6	32.0	58.6
AERSR221020	Stream	2.13	1037	<1	7.3	5.8	14.0	12.2	14.5	85.1	1	217.1	0.8	10.4	4.4	135	1.4	489.9	28.6	34.5	61.2
AERSR221021	Pulp DUP		689	<1	6.1	5.4	12.9	13.4	12.3	81.3	1	142.7	0.9	10.1	4.1	105	1.6	554.6	25.5	35.8	63.9
AERSR221022	Stream	2.51	974	<1	6.7	5.0	12.2	11.4	11.6	83.4	1	108.8	0.7	9.1	3.3	152	1.0	489.4	25.3	32.0	56.8
AERSR221023	Stream	2.55	670	3	7.1	5.6	12.2	11.8	12.3	83.6	<1	135.3	0.7	10.5	3.8	116	1.5	506.0	25.9	34.3	60.3
AERSR221024	Stream	2.10	681	<1	6.7	5.5	10.9	13.5	12.1	79.5	3	141.4	0.8	9.4	4.0	107	1.6	546.8	25.4	33.1	59.1
AERSR221025	Stream	1.89	739	7	6.9	5.2	12.8	9.0	11.3	76.6	<1	208.1	0.7	8.5	3.1	112	1.4	372.2	25.2	30.4	53.3
AERSR221026	Stream	2.16	841	<1	9.2	4.8	14.4	11.1	11.7	72.9	1	236.1	0.8	8.8	3.5	117	1.4	443.6	25.6	31.6	56.4
AERSR221027	Stream	2.21	1028	<1	8.9	6.4	16.3	8.8	14.5	90.9	1	290.9	0.8	9.9	4.2	141	1.7	372.2	31.3	36.8	63.2
AERSR221028	Rock Pulp	0.06	475	1	52.9	2.3	14.5	4.0	16.4	38.5	6	427.5	0.4	3.8	0.9	61	<0.5	167.7	11.7	32.8	57.8
AERSR221029	Stream	3.11	819	1	9.0	5.3	13.5	16.8	13.5	75.2	1	208.4	1.0	9.2	4.0	125	1.6	688.7	28.7	32.1	63.0
AERSR221030	Stream	2.65	837	<1	9.5	5.1	13.7	12.5	10.4	69.3	<1	165.6	0.6	8.3	3.8	144	1.5	493.4	28.9	29.7	53.8



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Method Analyte Unit MDL		LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Mo	Cu	Pb	Zn	Ni	As	Cd	Sb
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.3	0.05	0.02	0.05	0.01	0.05	0.02	0.03	0.01	0.05	0.01	0.1	0.1	0.1	1	0.1	0.5	0.1	0.1
AERSR221001	Pulp DUP	8.68	32.6	6.08	1.22	5.85	0.95	5.92	1.22	3.78	0.61	4.05	0.62	1.1	12.2	10.2	76	17.8	5.6	0.5	0.2
AERSR221002	Stream	8.30	29.4	5.32	1.17	5.28	0.81	4.77	0.96	3.16	0.45	3.26	0.51	0.6	18.1	13.1	82	19.0	4.1	0.4	0.2
AERSR221003	Stream	7.47	27.7	5.50	1.23	5.37	0.78	4.95	0.98	3.13	0.48	2.94	0.48	0.9	25.7	13.6	103	27.1	6.1	0.7	0.3
AERSR221004	Stream	7.07	26.1	5.31	1.07	4.85	0.74	4.54	0.96	3.10	0.46	3.01	0.49	0.7	17.6	11.3	85	21.8	5.5	0.5	0.2
AERSR221005	Stream	8.59	29.1	5.00	1.21	4.62	0.64	3.94	0.82	2.64	0.40	2.49	0.39	0.6	21.8	17.2	70	13.4	5.2	0.4	0.2
AERSR221006	Stream	8.54	31.4	6.05	1.15	5.73	0.88	5.41	1.14	3.44	0.56	3.79	0.61	0.9	13.3	11.5	77	19.1	4.8	0.5	0.3
AERSR221007	Stream	8.68	33.2	5.91	1.12	5.91	0.91	5.50	1.21	3.76	0.58	4.01	0.65	1.1	12.5	11.2	75	18.2	5.7	0.5	0.2
AERSR221008	Stream	8.47	31.2	6.12	1.17	5.65	0.85	5.26	1.07	3.31	0.51	3.65	0.55	0.7	12.8	11.2	72	18.2	4.1	0.5	0.2
AERSR221009	Stream	5.65	20.8	4.00	0.81	3.74	0.58	3.41	0.76	2.33	0.35	2.41	0.41	1.7	11.0	9.4	76	18.5	5.2	0.5	0.3
AERSR221010	Stream	7.46	26.8	5.34	1.12	5.32	0.81	4.83	0.97	2.74	0.41	2.58	0.44	0.8	15.4	11.7	111	23.8	5.6	0.5	0.2
AERSR221011	Stream	6.20	23.2	4.46	0.98	4.55	0.68	4.13	0.91	2.82	0.41	2.72	0.43	0.5	10.3	8.3	53	15.6	5.6	0.3	0.2
AERSR221012	Rock Pulp	6.81	23.5	3.59	1.06	3.10	0.38	2.27	0.44	1.25	0.17	1.13	0.16	12.3	156.2	262.9	213	80.1	9.2	0.5	0.2
AERSR221013	Stream	6.06	23.1	4.14	0.95	4.11	0.61	3.90	0.83	2.58	0.37	2.51	0.40	0.6	11.8	10.1	86	20.2	4.6	0.7	0.3
AERSR221014	Stream	7.95	30.6	5.79	1.13	5.55	0.91	5.47	1.13	3.78	0.57	4.00	0.67	0.5	7.9	8.4	65	17.2	3.9	0.3	0.1
AERSR221015	Stream	8.39	31.1	5.52	1.18	5.18	0.81	4.70	0.99	3.08	0.49	3.08	0.55	1.2	15.3	13.7	89	22.5	6.0	0.6	0.2
AERSR221016	Stream	6.81	26.5	4.72	1.10	4.56	0.72	4.30	0.91	2.78	0.39	2.81	0.48	0.6	14.4	10.9	77	18.9	4.4	0.5	0.2
AERSR221017	Stream	5.77	22.0	4.44	1.11	4.50	0.73	4.26	0.87	2.65	0.39	2.56	0.42	0.9	24.9	9.7	95	23.2	4.1	0.8	0.4
AERSR221018	Stream	6.14	24.4	4.46	1.10	4.38	0.67	3.85	0.90	2.47	0.37	2.54	0.37	1.5	29.5	14.5	103	25.4	5.2	1.3	0.5
AERSR221019	Stream	7.05	28.2	5.28	1.17	5.20	0.78	4.57	0.93	2.89	0.41	2.72	0.47	1.3	32.7	14.5	116	34.5	4.7	1.9	0.5
AERSR221020	Stream	7.49	28.7	5.37	1.16	5.22	0.80	4.67	1.01	3.06	0.45	3.08	0.49	0.7	23.2	12.4	90	22.9	3.5	0.8	0.2
AERSR221021	Pulp DUP	7.52	27.9	5.04	1.10	4.63	0.73	4.44	0.92	2.75	0.43	2.87	0.47	0.9	14.2	12.0	78	19.4	4.6	0.5	0.2
AERSR221022	Stream	6.85	25.5	4.80	1.04	4.64	0.69	4.17	0.89	2.84	0.44	2.79	0.45	0.7	17.3	11.0	99	25.7	4.8	0.7	0.3
AERSR221023	Stream	7.22	26.7	4.91	1.06	4.76	0.70	4.15	0.86	2.85	0.39	2.79	0.47	0.9	16.4	13.1	84	21.7	5.1	0.5	0.3
AERSR221024	Stream	7.00	25.6	4.69	1.02	4.35	0.66	4.09	0.83	2.60	0.38	2.50	0.40	0.9	14.3	12.2	77	18.9	4.5	0.5	0.2
AERSR221025	Stream	6.71	25.8	4.73	1.04	4.70	0.69	4.26	0.81	2.52	0.37	2.41	0.38	1.0	17.7	11.7	81	21.3	4.3	0.5	0.3
AERSR221026	Stream	6.86	25.8	5.01	1.17	4.88	0.75	4.09	0.91	2.86	0.44	3.15	0.47	0.6	20.3	9.9	91	22.7	3.4	0.7	0.2
AERSR221027	Stream	7.75	29.9	5.97	1.45	5.90	0.89	5.22	1.08	3.09	0.46	3.06	0.50	1.0	31.7	13.6	101	25.9	4.4	0.8	0.2
AERSR221028	Rock Pulp	6.77	24.6	3.86	0.98	2.95	0.41	2.13	0.44	1.19	0.17	1.07	0.17	12.5	160.3	265.0	217	83.4	9.3	0.5	0.2
AERSR221029	Stream	7.55	29.0	5.27	1.22	5.11	0.78	4.92	1.07	3.18	0.46	3.25	0.51	0.8	22.7	10.8	93	24.7	4.3	0.6	0.3
AERSR221030	Stream	6.64	25.5	5.19	1.13	4.95	0.78	4.51	0.97	3.21	0.45	3.12	0.50	1.1	27.7	10.5	109	32.0	4.5	1.4	0.4



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Method Analyte Unit MDL		AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300
		Bi	Ag	Au	Hg	Tl	Se	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr
		ppm	ppm	ppb	ppm	ppm	ppm	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm
		0.1	0.1	0.5	0.01	0.1	0.5	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2
AERSR221001	Pulp DUP	0.2	0.1	1.0	0.04	0.1	0.8	61.98	8.77	2.73	3.54	6.54	0.63	1.74	0.63	0.22	0.02	0.011	668	27	99
AERSR221002	Stream	0.2	0.2	1.4	0.05	0.2	0.8	66.82	11.23	2.85	1.20	1.86	0.78	2.36	0.59	0.19	0.06	0.009	1101	20	258
AERSR221003	Stream	0.2	0.2	1.3	0.08	0.2	1.6	64.13	11.38	3.40	1.45	2.30	0.87	1.93	0.62	0.21	0.07	0.011	902	27	177
AERSR221004	Stream	0.1	0.2	0.8	0.05	0.1	0.9	70.32	9.79	2.90	1.55	2.23	0.67	1.79	0.60	0.20	0.04	0.011	738	24	136
AERSR221005	Stream	0.2	0.1	1.7	0.03	0.3	0.8	60.03	12.68	3.32	2.11	4.67	0.94	3.09	0.53	0.15	0.08	0.007	1120	<20	432
AERSR221006	Stream	0.2	0.1	0.9	0.03	0.2	0.6	63.13	9.45	2.77	3.17	5.67	0.67	1.89	0.60	0.20	0.04	0.010	568	23	88
AERSR221007	Stream	0.2	0.1	0.6	0.04	0.2	0.8	62.05	8.66	2.75	3.50	6.52	0.62	1.69	0.62	0.22	0.02	0.010	665	<20	98
AERSR221008	Stream	0.2	0.1	0.7	0.03	0.2	0.5	63.55	9.57	2.83	3.15	5.69	0.68	1.90	0.60	0.20	0.04	0.011	554	<20	88
AERSR221009	Stream	0.1	0.2	0.6	0.03	0.2	1.1	49.99	6.79	1.97	6.33	12.18	0.44	1.43	0.43	0.20	0.03	0.009	498	22	91
AERSR221010	Stream	0.2	0.2	0.9	0.06	0.2	1.0	64.54	10.14	2.92	1.77	2.65	0.50	1.86	0.56	0.22	0.05	0.011	733	28	106
AERSR221011	Stream	0.1	<0.1	5.7	0.03	0.1	<0.5	65.92	6.54	1.92	3.30	7.75	0.55	1.35	0.47	0.20	0.03	0.008	473	<20	92
AERSR221012	Rock Pulp	0.1	0.1	33.9	0.01	<0.1	<0.5	71.91	11.94	4.01	1.73	3.25	3.44	1.44	0.38	0.13	0.07	0.016	470	86	396
AERSR221013	Stream	0.1	0.2	0.6	0.06	0.2	2.2	58.75	7.90	2.26	2.45	5.07	0.45	1.50	0.45	0.24	0.03	0.010	588	23	93
AERSR221014	Stream	0.1	0.2	0.5	0.05	0.1	0.7	71.21	8.36	2.32	1.45	2.39	0.58	1.48	0.60	0.22	0.03	0.012	712	22	88
AERSR221015	Stream	0.2	0.2	0.8	0.05	0.2	0.7	70.73	10.86	2.93	1.46	1.57	0.63	2.09	0.60	0.20	0.04	0.010	717	22	89
AERSR221016	Stream	0.1	0.1	0.9	0.04	0.1	0.8	65.94	9.19	2.68	2.50	4.51	0.67	1.76	0.53	0.19	0.03	0.009	648	<20	135
AERSR221017	Stream	0.1	0.4	2.4	0.09	0.1	3.5	55.81	10.97	3.20	0.94	2.11	0.85	1.66	0.51	0.22	0.07	0.010	780	28	245
AERSR221018	Stream	0.2	0.3	2.6	0.10	0.2	3.7	55.29	11.06	2.82	1.94	6.40	0.59	1.77	0.53	0.20	0.14	0.009	744	23	199
AERSR221019	Stream	0.2	0.4	2.1	0.11	0.2	3.0	61.86	12.28	3.34	1.21	1.64	0.80	1.96	0.63	0.23	0.10	0.012	860	32	167
AERSR221020	Stream	0.2	0.4	2.1	0.09	0.2	1.6	65.29	11.32	3.12	0.94	1.41	0.80	1.95	0.60	0.18	0.08	0.011	995	29	211
AERSR221021	Pulp DUP	0.2	0.1	1.1	0.04	0.2	0.7	63.56	9.91	2.83	2.89	5.06	0.64	1.99	0.55	0.20	0.04	0.010	679	23	137
AERSR221022	Stream	0.1	0.2	0.8	0.06	0.1	1.4	68.14	10.40	2.63	0.96	1.24	0.44	1.91	0.58	0.22	0.04	0.012	983	35	104
AERSR221023	Stream	0.2	0.2	1.0	0.05	0.2	1.1	62.75	10.29	3.01	2.74	4.57	0.65	2.01	0.56	0.21	0.04	0.009	684	20	132
AERSR221024	Stream	0.2	0.1	0.6	0.04	0.2	0.8	63.58	9.83	2.79	2.91	5.09	0.64	1.99	0.54	0.19	0.04	0.009	681	21	138
AERSR221025	Stream	0.2	0.2	1.1	0.06	0.2	1.4	63.15	9.91	2.82	1.49	3.59	0.69	1.75	0.53	0.19	0.05	0.009	748	27	205
AERSR221026	Stream	0.1	0.3	1.5	0.06	0.1	1.1	66.57	12.43	3.64	0.98	1.49	1.03	1.71	0.65	0.16	0.11	0.011	871	27	229
AERSR221027	Stream	0.2	0.5	2.2	0.10	0.2	1.6	60.18	13.03	3.85	1.05	1.63	0.95	2.22	0.61	0.19	0.08	0.011	1036	28	290
AERSR221028	Rock Pulp	0.1	0.1	36.6	0.01	<0.1	<0.5	71.84	12.05	4.02	1.72	3.26	3.45	1.44	0.38	0.13	0.07	0.016	470	88	400
AERSR221029	Stream	0.2	0.2	1.1	0.06	0.1	1.0	71.12	11.26	3.32	1.11	1.17	0.95	1.84	0.65	0.18	0.07	0.012	803	24	198
AERSR221030	Stream	0.1	0.4	2.4	0.10	0.2	1.9	68.24	11.18	3.34	1.14	1.35	0.76	1.66	0.62	0.25	0.07	0.013	818	35	156



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	Method	Analyte	Unit	MDL	LF300	LF300	LF300	LF300	LF300	LF300	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251			
					Zr	Y	Nb	Sc	LOI	Sum	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr
					ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm
					5	3	5	1	-5.1	0.01	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5
AERSR221001	Pulp DUP	1062	34	18	7	12.8	99.89	1.11	11.92	10.15	71.6	140	16.9	5.4	156	1.39	5.3	0.8	1.9	3.9	45.0			
AERSR221002	Stream	630	28	21	8	11.7	99.92	0.68	18.21	11.91	81.6	172	18.5	6.1	440	1.42	4.2	0.6	2.3	2.6	75.9			
AERSR221003	Stream	425	27	15	10	13.4	99.93	0.84	22.95	12.17	89.9	215	23.5	8.6	463	1.76	5.5	0.7	1.9	2.5	66.5			
AERSR221004	Stream	692	30	18	9	9.6	99.91	0.71	17.45	11.09	81.8	189	20.5	7.1	297	1.53	5.5	0.7	1.7	2.8	38.8			
AERSR221005	Stream	453	22	29	6	12.1	99.92	0.58	20.19	16.77	70.3	136	12.8	5.4	537	1.49	4.8	0.8	1.7	3.2	138.0			
AERSR221006	Stream	784	31	13	8	12.1	99.91	1.00	13.46	11.40	76.0	143	18.4	6.0	215	1.43	4.9	0.8	1.0	4.2	41.3			
AERSR221007	Stream	1004	33	12	8	13.0	99.90	1.13	12.07	9.90	73.0	147	17.4	5.5	157	1.41	5.4	0.8	0.6	3.9	46.1			
AERSR221008	Stream	757	32	17	8	11.5	99.90	0.68	12.99	11.11	71.9	115	17.6	6.0	269	1.32	4.0	0.8	2.8	4.7	35.2			
AERSR221009	Stream	544	24	13	6	19.9	99.86	1.55	9.97	8.48	69.1	177	16.2	4.1	227	0.97	4.4	0.7	13.9	2.0	44.5			
AERSR221010	Stream	456	29	17	9	14.5	99.92	0.77	15.11	11.36	109.1	196	21.8	6.4	328	1.50	5.2	0.8	0.9	2.2	35.5			
AERSR221011	Stream	537	25	10	6	11.7	99.91	0.53	10.10	8.07	51.3	69	14.8	5.2	221	1.05	5.4	0.6	0.7	3.4	44.6			
AERSR221012	Rock Pulp	157	11	16	9	1.4	99.88	12.52	154.99	273.32	215.2	110	79.1	50.3	282	1.63	9.4	0.4	37.8	3.0	35.1			
AERSR221013	Stream	535	26	11	7	20.6	99.91	0.57	11.31	9.37	82.7	226	18.8	4.9	221	1.18	4.5	0.5	0.4	1.6	39.2			
AERSR221014	Stream	1208	34	13	8	11.0	99.93	0.47	8.08	8.44	67.0	178	17.0	4.9	224	1.22	3.6	0.5	0.4	2.2	25.5			
AERSR221015	Stream	578	28	12	9	8.6	99.92	1.17	15.35	12.60	88.1	164	21.2	6.9	290	1.55	5.6	0.7	0.7	3.5	25.7			
AERSR221016	Stream	569	24	12	7	11.7	99.91	0.61	13.81	10.10	74.0	137	17.5	5.5	241	1.41	4.1	0.6	1.0	2.9	49.0			
AERSR221017	Stream	440	25	12	10	23.4	99.92	0.90	23.38	9.28	91.6	399	21.4	6.0	506	1.67	3.8	0.7	2.1	1.6	145.3			
AERSR221018	Stream	295	23	11	10	19.0	99.92	1.53	27.78	13.81	98.0	257	23.9	6.8	989	1.42	5.2	0.8	2.1	1.8	122.8			
AERSR221019	Stream	359	27	15	12	15.7	99.91	1.32	30.59	13.49	111.8	376	31.5	8.6	767	1.81	4.5	0.8	2.5	2.2	76.2			
AERSR221020	Stream	484	27	17	9	14.0	99.94	0.72	20.46	10.65	82.1	352	20.0	5.8	545	1.49	2.9	1.0	1.7	2.0	81.3			
AERSR221021	Pulp DUP	549	25	15	8	12.1	99.90	0.91	13.74	11.64	75.1	141	17.9	5.6	285	1.42	4.3	0.7	0.5	3.4	49.6			
AERSR221022	Stream	444	26	16	9	13.2	99.93	0.81	17.38	10.92	100.4	190	25.4	6.4	276	1.38	4.6	0.6	0.9	2.1	33.4			
AERSR221023	Stream	519	26	18	8	12.9	99.91	0.87	15.50	12.07	79.7	171	19.4	6.1	279	1.50	4.6	0.7	0.8	3.4	47.9			
AERSR221024	Stream	575	25	17	7	12.1	99.90	0.91	14.01	12.04	76.4	142	18.0	5.6	286	1.42	4.6	0.7	0.7	3.5	49.1			
AERSR221025	Stream	377	25	15	8	15.6	99.93	0.99	17.13	11.16	80.5	224	20.3	6.1	319	1.46	4.4	0.6	1.2	2.2	115.6			
AERSR221026	Stream	466	26	15	10	10.9	99.93	0.70	20.78	10.44	94.3	284	22.8	8.0	804	1.89	3.6	0.8	1.5	2.5	111.7			
AERSR221027	Stream	350	29	18	11	15.9	99.92	0.98	30.26	12.91	93.6	455	23.8	7.2	533	1.87	4.1	1.0	3.6	2.4	147.1			
AERSR221028	Rock Pulp	162	11	19	9	1.4	99.87	12.30	154.57	279.68	214.9	107	81.8	50.4	285	1.65	9.4	0.4	38.9	3.1	34.5			
AERSR221029	Stream	613	27	13	10	8.0	99.94	0.87	21.77	11.04	88.7	166	23.2	8.1	524	1.78	4.1	0.8	1.9	2.8	67.5			
AERSR221030	Stream	492	28	12	11	11.1	99.93	1.13	26.67	10.32	105.7	411	29.7	8.9	557	1.85	4.2	0.8	11.4	2.4	64.6			



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					Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg
					ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb
					0.01	0.02	0.02	1	0.01	0.001	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5
AERSR221001	Pulp DUP	0.45	0.34	0.16	20	4.31	0.087	11.4	10.6	1.75	305.4	0.002	4	0.84	0.008	0.14	<0.1	2.4	0.16	0.14	40			
AERSR221002	Stream	0.35	0.33	0.17	25	1.18	0.070	15.8	11.1	0.44	445.5	0.004	4	1.03	0.008	0.17	<0.1	2.5	0.19	0.05	54			
AERSR221003	Stream	0.62	0.50	0.18	29	1.36	0.078	10.4	15.1	0.55	385.2	0.004	4	1.20	0.008	0.15	<0.1	3.5	0.17	0.08	73			
AERSR221004	Stream	0.46	0.38	0.15	26	1.43	0.074	10.4	13.7	0.63	282.5	0.003	4	0.95	0.008	0.13	<0.1	2.8	0.16	0.06	51			
AERSR221005	Stream	0.39	0.32	0.20	23	2.93	0.057	23.3	9.4	0.92	348.2	0.003	3	1.02	0.013	0.20	<0.1	2.1	0.25	0.06	36			
AERSR221006	Stream	0.48	0.36	0.19	21	4.12	0.083	12.2	11.9	1.62	280.2	0.002	3	0.97	0.008	0.16	<0.1	2.6	0.16	0.12	33			
AERSR221007	Stream	0.45	0.35	0.16	21	4.38	0.086	11.1	11.2	1.77	306.8	0.002	4	0.89	0.008	0.15	<0.1	2.5	0.15	0.15	37			
AERSR221008	Stream	0.47	0.39	0.19	21	3.78	0.078	14.3	12.0	1.49	218.7	0.002	3	1.08	0.008	0.18	<0.1	2.6	0.17	0.06	31			
AERSR221009	Stream	0.47	0.36	0.11	19	7.55	0.076	7.4	10.3	3.18	187.1	0.002	4	0.58	0.010	0.11	<0.1	1.9	0.15	0.14	40			
AERSR221010	Stream	0.49	0.33	0.16	26	1.70	0.085	9.4	15.4	0.72	291.7	0.002	4	1.00	0.007	0.14	<0.1	2.7	0.16	0.07	61			
AERSR221011	Stream	0.28	0.31	0.11	19	5.35	0.080	9.5	9.7	1.71	140.7	0.002	3	0.67	0.007	0.12	<0.1	2.1	0.11	<0.02	27			
AERSR221012	Rock Pulp	0.51	0.21	0.15	26	0.60	0.054	24.9	31.8	0.49	61.3	0.072	2	0.82	0.093	0.12	<0.1	3.1	0.08	0.04	14			
AERSR221013	Stream	0.66	0.35	0.12	24	3.21	0.093	8.0	15.7	1.17	218.4	0.002	6	0.87	0.008	0.13	<0.1	2.0	0.16	0.07	67			
AERSR221014	Stream	0.32	0.23	0.11	21	1.52	0.080	8.4	11.8	0.60	289.1	0.002	4	0.89	0.008	0.13	<0.1	2.3	0.12	0.05	57			
AERSR221015	Stream	0.50	0.33	0.19	24	1.03	0.075	10.8	12.9	0.55	265.5	0.002	3	1.05	0.006	0.16	<0.1	2.9	0.18	0.07	35			
AERSR221016	Stream	0.44	0.30	0.14	25	2.94	0.075	11.0	12.1	1.23	221.2	0.003	4	0.94	0.008	0.14	<0.1	2.6	0.14	0.06	35			
AERSR221017	Stream	0.69	0.53	0.15	32	1.24	0.085	11.9	17.1	0.33	338.1	0.004	7	1.53	0.011	0.24	<0.1	3.9	0.17	0.10	76			
AERSR221018	Stream	1.25	0.77	0.16	33	4.32	0.077	10.2	18.6	0.87	302.3	0.003	8	1.35	0.009	0.17	<0.1	4.4	0.23	0.10	87			
AERSR221019	Stream	1.80	0.81	0.17	37	1.03	0.085	10.6	21.3	0.47	402.4	0.004	4	1.35	0.008	0.17	<0.1	5.0	0.20	0.07	113			
AERSR221020	Stream	0.73	0.38	0.14	34	0.73	0.061	13.0	14.4	0.31	396.2	0.004	4	1.24	0.008	0.18	<0.1	3.2	0.19	0.06	75			
AERSR221021	Pulp DUP	0.49	0.35	0.17	23	3.29	0.071	11.9	12.1	1.38	229.9	0.002	3	0.98	0.009	0.16	<0.1	2.6	0.15	0.07	35			
AERSR221022	Stream	0.71	0.44	0.15	26	0.80	0.075	6.4	14.6	0.29	467.7	0.001	5	0.92	0.007	0.15	<0.1	2.9	0.15	0.06	61			
AERSR221023	Stream	0.47	0.40	0.18	25	2.93	0.076	12.7	13.2	1.28	235.6	0.002	4	1.06	0.009	0.16	<0.1	2.8	0.17	0.07	45			
AERSR221024	Stream	0.47	0.31	0.17	24	3.40	0.073	12.6	12.8	1.38	235.7	0.002	4	1.00	0.009	0.16	<0.1	2.6	0.16	0.07	37			
AERSR221025	Stream	0.49	0.38	0.15	25	2.29	0.069	9.8	12.9	0.60	309.6	0.003	5	1.08	0.010	0.15	<0.1	2.7	0.18	0.06	58			
AERSR221026	Stream	0.74	0.37	0.15	32	0.79	0.058	13.6	17.3	0.33	388.3	0.006	3	1.62	0.008	0.16	<0.1	4.0	0.17	0.04	64			
AERSR221027	Stream	0.77	0.47	0.20	36	0.92	0.066	17.6	17.0	0.33	393.3	0.004	4	1.59	0.007	0.19	<0.1	4.3	0.23	0.07	74			
AERSR221028	Rock Pulp	0.49	0.20	0.14	26	0.61	0.054	25.2	32.6	0.50	60.7	0.075	2	0.84	0.094	0.12	<0.1	3.2	0.08	0.04	15			
AERSR221029	Stream	0.57	0.46	0.15	33	0.64	0.069	12.4	16.5	0.40	288.3	0.006	3	1.19	0.008	0.14	<0.1	3.5	0.16	0.05	54			
AERSR221030	Stream	1.34	0.67	0.14	39	0.77	0.092	11.1	20.5	0.46	365.6	0.005	3	1.36	0.007	0.16	<0.1	4.6	0.18	0.04	112			



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		Se	Te	Ga	Cs	Ge	Hf	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pr	Nd
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm
		0.1	0.02	0.1	0.02	0.1	0.02	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	0.02	0.02
AERSR221001	Pulp DUP	0.8	0.03	2.2	1.18	<0.1	0.06	0.12	10.3	0.5	<0.05	2.2	11.77	23.6	0.02	2	0.5	11.8	3.14	13.87
AERSR221002	Stream	0.9	0.04	3.0	1.57	<0.1	0.05	0.55	15.0	0.4	<0.05	2.0	11.02	30.3	0.02	3	0.9	14.1	3.57	14.13
AERSR221003	Stream	1.5	0.06	3.3	1.28	<0.1	0.06	0.38	11.4	0.4	<0.05	1.9	11.48	21.3	0.03	2	0.7	16.7	2.85	12.84
AERSR221004	Stream	0.8	0.05	2.7	1.45	<0.1	0.05	0.31	11.2	1.2	<0.05	1.8	11.34	20.2	0.02	1	0.6	14.5	2.78	12.34
AERSR221005	Stream	0.9	0.07	2.8	1.79	<0.1	0.06	0.67	15.0	1.5	<0.05	2.9	9.13	41.8	0.02	1	1.4	12.3	4.86	16.90
AERSR221006	Stream	0.7	0.03	2.6	1.31	<0.1	0.07	0.10	11.3	0.5	<0.05	2.2	11.65	25.2	0.02	2	0.6	12.5	3.41	14.70
AERSR221007	Stream	0.8	0.03	2.4	1.19	<0.1	0.06	0.10	11.1	0.5	<0.05	2.1	11.53	22.8	0.02	2	0.5	11.6	3.10	13.40
AERSR221008	Stream	0.6	0.04	2.8	1.46	<0.1	0.06	0.08	12.8	0.7	<0.05	2.1	11.39	29.8	0.02	1	0.6	12.8	3.84	16.36
AERSR221009	Stream	1.1	0.04	1.6	0.89	<0.1	0.03	0.07	8.1	0.8	<0.05	1.2	11.11	12.1	<0.02	3	0.4	8.7	1.89	8.58
AERSR221010	Stream	1.1	0.04	2.7	1.02	<0.1	0.06	0.20	12.1	0.5	<0.05	2.0	14.39	17.6	0.02	3	0.6	14.7	2.63	12.16
AERSR221011	Stream	0.4	0.03	1.8	0.88	<0.1	0.04	0.05	8.1	0.4	<0.05	2.1	11.22	18.9	<0.02	<1	0.4	7.7	2.62	11.56
AERSR221012	Rock Pulp	<0.1	<0.02	2.7	1.14	<0.1	0.17	0.51	7.6	2.4	<0.05	6.1	5.81	42.9	0.04	<1	0.2	8.9	5.15	17.33
AERSR221013	Stream	1.9	0.03	2.4	0.91	<0.1	0.05	0.20	11.5	0.3	<0.05	1.7	12.02	12.8	0.02	1	0.5	13.8	2.03	9.26
AERSR221014	Stream	0.9	0.03	2.3	0.87	<0.1	0.05	0.15	11.1	0.3	<0.05	1.7	11.83	17.0	<0.02	1	0.5	15.9	2.45	11.27
AERSR221015	Stream	0.8	0.05	3.0	1.36	<0.1	0.06	0.12	12.8	0.4	<0.05	1.9	12.02	22.8	0.02	1	0.6	14.9	3.08	13.71
AERSR221016	Stream	0.8	0.03	2.6	1.09	<0.1	0.06	0.21	10.9	0.3	<0.05	2.1	10.59	21.8	0.02	1	0.6	12.2	2.86	12.29
AERSR221017	Stream	3.2	0.05	4.1	1.11	<0.1	0.07	0.46	13.1	0.5	<0.05	2.5	12.31	22.7	0.02	2	0.8	15.7	3.01	13.15
AERSR221018	Stream	3.3	0.05	3.6	1.50	<0.1	0.05	0.27	12.7	0.7	<0.05	1.8	11.66	21.1	0.03	2	0.8	15.6	2.77	12.48
AERSR221019	Stream	2.9	0.06	3.7	1.55	<0.1	0.05	0.25	12.8	0.4	<0.05	1.7	13.85	21.9	0.03	3	0.9	15.3	2.96	13.29
AERSR221020	Stream	1.4	0.04	3.5	1.23	<0.1	0.07	0.39	13.9	0.4	<0.05	2.5	11.41	24.4	0.02	4	0.9	14.6	3.14	13.24
AERSR221021	Pulp DUP	0.8	0.04	2.7	1.29	<0.1	0.06	0.20	12.4	0.3	<0.05	2.3	10.88	23.5	0.02	2	0.7	12.3	3.03	12.80
AERSR221022	Stream	1.4	0.05	2.5	1.19	<0.1	0.05	0.17	12.9	0.3	<0.05	1.9	11.16	13.7	0.03	3	0.7	14.0	1.88	8.78
AERSR221023	Stream	1.1	0.04	3.0	1.37	<0.1	0.07	0.21	13.0	0.4	<0.05	2.3	11.63	25.1	0.02	2	0.7	13.1	3.21	13.52
AERSR221024	Stream	0.8	0.03	2.8	1.26	<0.1	0.07	0.21	12.1	0.4	<0.05	2.3	11.11	24.5	0.02	2	0.7	12.5	3.14	13.16
AERSR221025	Stream	1.4	0.05	3.0	1.37	<0.1	0.06	0.30	13.7	0.4	<0.05	2.1	11.65	19.6	0.02	3	0.7	14.4	2.61	11.48
AERSR221026	Stream	1.1	0.05	4.5	1.25	<0.1	0.10	0.33	13.1	0.5	<0.05	3.4	10.77	27.2	0.03	4	0.8	16.8	3.44	14.53
AERSR221027	Stream	1.6	0.06	4.4	1.54	<0.1	0.10	0.49	16.4	0.5	<0.05	3.0	14.63	32.3	0.03	3	1.1	18.0	4.25	17.68
AERSR221028	Rock Pulp	0.1	<0.02	2.8	1.16	<0.1	0.19	0.53	7.4	2.4	<0.05	6.2	5.96	43.3	0.04	<1	0.2	8.8	5.11	17.59
AERSR221029	Stream	1.0	0.05	3.4	1.44	<0.1	0.04	0.38	11.9	0.4	<0.05	1.6	10.96	24.9	0.02	3	0.7	17.6	3.22	13.77
AERSR221030	Stream	1.7	0.05	3.7	1.27	<0.1	0.05	0.21	12.2	0.4	<0.05	1.6	12.46	22.7	0.03	2	0.8	14.1	2.90	12.51



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Method Analyte Unit MDL		AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Pd	Pt
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb
		0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	10	2
AERSR221001	Pulp DUP	0.61	2.93	0.37	2.10	0.36	0.87	0.11	0.62	0.08	<10	<2
AERSR221002	Stream	0.64	2.89	0.36	2.01	0.34	0.86	0.10	0.59	0.08	<10	<2
AERSR221003	Stream	0.69	3.10	0.39	2.21	0.38	0.93	0.12	0.68	0.09	<10	<2
AERSR221004	Stream	0.65	3.04	0.39	2.19	0.37	0.91	0.11	0.64	0.09	<10	<2
AERSR221005	Stream	0.58	2.37	0.29	1.61	0.27	0.68	0.08	0.51	0.07	<10	<2
AERSR221006	Stream	0.64	3.06	0.38	2.13	0.36	0.89	0.11	0.64	0.09	<10	<2
AERSR221007	Stream	0.58	2.86	0.36	2.04	0.34	0.84	0.10	0.60	0.08	<10	<2
AERSR221008	Stream	0.64	2.99	0.37	2.06	0.35	0.86	0.10	0.59	0.08	<10	<2
AERSR221009	Stream	0.44	2.09	0.27	1.58	0.29	0.72	0.09	0.51	0.07	<10	<2
AERSR221010	Stream	0.70	3.36	0.43	2.44	0.42	1.05	0.13	0.74	0.10	<10	<2
AERSR221011	Stream	0.57	2.68	0.34	1.90	0.33	0.80	0.10	0.56	0.07	<10	<2
AERSR221012	Rock Pulp	0.55	1.72	0.20	1.14	0.20	0.54	0.07	0.46	0.06	45	24
AERSR221013	Stream	0.51	2.47	0.32	1.87	0.33	0.83	0.10	0.60	0.08	<10	<2
AERSR221014	Stream	0.63	3.02	0.39	2.17	0.37	0.91	0.11	0.62	0.08	<10	<2
AERSR221015	Stream	0.68	3.14	0.40	2.21	0.37	0.92	0.11	0.63	0.08	<10	<2
AERSR221016	Stream	0.59	2.66	0.33	1.92	0.33	0.78	0.10	0.55	0.07	<10	<2
AERSR221017	Stream	0.69	3.02	0.37	2.14	0.37	0.96	0.12	0.75	0.11	<10	<2
AERSR221018	Stream	0.70	2.94	0.37	2.11	0.36	0.91	0.11	0.68	0.09	<10	<2
AERSR221019	Stream	0.76	3.36	0.44	2.50	0.43	1.08	0.13	0.79	0.11	<10	<2
AERSR221020	Stream	0.65	2.89	0.35	2.01	0.34	0.88	0.11	0.66	0.09	<10	<2
AERSR221021	Pulp DUP	0.60	2.67	0.35	1.95	0.32	0.79	0.10	0.55	0.07	<10	<2
AERSR221022	Stream	0.56	2.71	0.36	2.03	0.35	0.85	0.10	0.57	0.08	<10	<2
AERSR221023	Stream	0.62	2.82	0.36	2.02	0.34	0.86	0.10	0.59	0.08	<10	<2
AERSR221024	Stream	0.62	2.78	0.35	1.96	0.34	0.83	0.10	0.57	0.08	<10	<2
AERSR221025	Stream	0.65	2.97	0.37	2.07	0.35	0.87	0.10	0.60	0.08	<10	<2
AERSR221026	Stream	0.68	2.91	0.36	1.99	0.34	0.86	0.11	0.68	0.10	<10	<2
AERSR221027	Stream	0.89	3.84	0.47	2.63	0.45	1.15	0.14	0.88	0.12	<10	<2
AERSR221028	Rock Pulp	0.55	1.75	0.20	1.15	0.20	0.54	0.07	0.47	0.06	45	25
AERSR221029	Stream	0.70	3.00	0.38	2.11	0.36	0.90	0.11	0.66	0.09	<10	<2
AERSR221030	Stream	0.64	2.94	0.38	2.18	0.37	0.97	0.12	0.72	0.10	<10	<2



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	Method Analyte Unit MDL	WGHT	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100
		Wgt	Ba	Be	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	La	Ce
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	1	1	0.2	0.1	0.5	0.1	0.1	0.1	1	0.5	0.1	0.2	0.1	8	0.5	0.1	0.1	0.1	0.1
AERSR221031	Stream	1.86	1016	<1	10.0	5.3	13.4	8.2	9.9	76.3	1	152.5	0.6	7.9	3.9	139	1.7	332.1	26.4	29.2	48.8
AERSR221032	Stream	2.28	724	<1	7.8	3.5	11.3	17.6	10.8	61.6	<1	139.2	0.8	9.5	3.8	114	1.6	723.2	28.5	31.5	54.5
AERSR221033	Stream	1.76	991	1	7.3	4.3	11.5	14.8	12.2	72.6	1	121.1	0.8	9.6	3.8	144	1.3	592.4	29.6	32.7	56.2
AERSR221034	Stream	2.17	915	2	10.0	5.0	13.4	16.3	12.7	71.8	1	165.4	1.0	10.0	4.3	125	1.4	645.1	32.0	36.1	63.8
AERSR221035	Stream	1.80	722	<1	8.9	4.7	13.3	10.9	13.2	73.3	1	145.2	0.7	8.7	3.3	130	1.3	441.4	29.4	32.6	58.1
AERSR221036	Stream	2.05	766	1	9.4	6.1	13.4	10.3	9.8	73.6	1	120.9	0.7	9.6	3.6	106	1.1	403.1	27.9	32.1	56.7
AERSR221037	Stream	2.63	883	4	10.4	5.2	15.0	14.1	12.6	82.3	2	126.9	0.9	10.2	4.7	154	1.1	570.8	30.9	37.0	66.1
AERSR221038	Stream	2.00	731	2	7.4	5.0	13.8	11.6	15.7	81.8	2	144.3	1.0	10.0	4.4	154	1.5	441.2	30.3	37.0	64.1
AERSR221039	Stream	1.53	876	2	7.8	4.2	12.2	22.0	14.2	77.4	2	176.8	1.0	11.3	5.4	127	1.4	905.0	34.6	39.2	73.0
AERSR221040	Stream	2.48	680	<1	8.9	7.4	16.4	6.5	12.1	109.4	2	162.7	0.8	10.6	3.8	112	1.8	238.5	27.1	34.3	65.0
AERSR221041	Pulp DUP		682	9	9.2	5.3	14.5	8.1	15.4	85.4	2	184.3	1.0	10.2	4.0	123	1.6	317.1	28.8	34.5	67.1
AERSR221042	Stream	1.60	830	2	9.2	5.3	14.4	9.3	11.7	75.8	2	149.4	0.7	9.0	4.8	141	1.6	358.6	30.1	33.6	57.5
AERSR221043	Stream	0.89	295	<1	3.9	2.5	6.7	5.7	6.0	45.4	<1	191.9	0.3	4.3	2.6	53	1.1	228.2	16.4	17.6	30.5
AERSR221044	Stream	0.63	199	<1	2.5	2.2	4.3	3.8	4.1	32.6	<1	172.4	0.3	2.6	2.1	37	1.4	152.5	10.7	11.7	19.0
AERSR221045	Stream	0.54	407	2	5.9	3.8	9.7	6.6	10.6	65.2	<1	161.7	0.7	6.9	3.2	85	1.4	259.5	21.0	26.0	47.1
AERSR221046	Stream	2.33	780	2	9.6	5.3	15.3	8.0	11.4	80.3	1	145.0	0.9	9.4	3.7	150	1.3	301.0	26.5	33.5	62.9
AERSR221047	Stream	2.08	870	2	9.0	4.1	12.4	8.2	11.2	72.2	1	170.5	0.8	8.4	3.7	125	1.2	346.1	23.2	30.6	55.6
AERSR221048	Stream	2.08	714	<1	6.6	5.4	12.5	15.5	11.9	82.7	2	100.0	0.9	11.1	4.4	116	1.2	641.3	28.3	37.4	69.0
AERSR221049	Stream	2.52	526	<1	6.9	5.8	10.5	12.0	10.7	75.2	2	91.5	0.6	9.4	3.6	91	1.3	476.9	25.8	32.0	59.9
AERSR221050	Stream	2.19	598	2	10.7	5.0	11.6	12.5	12.3	80.7	1	141.5	0.9	8.7	3.5	101	1.2	496.8	25.8	32.4	56.5
AERSR221051	Stream	1.92	476	5	5.2	4.6	7.7	11.9	9.5	63.0	1	219.2	0.7	7.4	2.8	60	1.0	459.0	18.9	26.0	48.4
AERSR221052	Stream	2.03	682	4	9.1	5.2	13.8	15.0	13.7	82.7	1	151.1	1.1	9.3	4.9	136	1.6	585.8	31.6	34.3	63.3
AERSR221053	Rock Pulp	0.07	473	<1	54.5	1.9	13.9	4.3	16.6	37.8	6	423.1	0.5	4.1	0.8	63	<0.5	158.7	11.6	33.7	59.2
AERSR221054	Stream	2.15	638	<1	8.6	5.0	12.7	9.3	14.1	76.9	2	185.1	0.7	8.9	4.1	110	1.5	351.7	26.9	31.8	61.4
AERSR221055	Stream	2.07	654	2	8.9	5.2	13.4	7.2	14.7	83.1	1	184.1	0.9	9.5	3.8	112	1.2	295.1	27.6	33.7	63.2
AERSR221056	Stream	1.41	630	<1	8.5	4.7	12.4	11.6	14.7	68.3	1	136.8	0.9	9.3	3.8	122	1.3	447.2	30.0	33.3	61.7
AERSR221057	Stream	1.77	810	2	8.6	4.6	13.8	11.8	14.8	71.2	2	168.3	1.0	9.3	4.1	130	1.4	464.2	28.3	33.3	61.2
AERSR221058	Stream	2.22	632	2	8.6	3.0	11.1	14.4	11.8	57.6	2	155.6	0.8	8.4	3.9	109	1.0	587.2	27.6	30.6	55.2
AERSR221059	Stream	1.82	838	<1	11.5	5.5	15.1	10.3	12.4	80.0	1	192.8	0.8	9.5	4.0	145	1.5	395.7	29.0	34.5	61.5
AERSR221060	Stream	1.47	862	5	8.8	5.2	13.9	15.9	18.1	83.0	1	404.8	1.4	11.0	4.2	134	1.4	638.6	30.6	45.4	83.6



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Method Analyte Unit MDL		LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Mo	Cu	Pb	Zn	Ni	As	Cd	Sb
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.3	0.05	0.02	0.05	0.01	0.05	0.02	0.03	0.01	0.05	0.01	0.1	0.1	0.1	1	0.1	0.5	0.1	0.1
AERSR221031	Stream	6.25	24.8	4.63	1.04	4.51	0.71	4.20	0.95	2.93	0.44	2.86	0.42	1.1	28.8	10.9	159	40.9	4.7	2.6	0.4
AERSR221032	Stream	6.77	25.9	4.80	1.00	4.61	0.77	4.83	0.99	3.22	0.52	3.40	0.54	0.9	17.5	9.3	88	23.3	5.0	0.7	0.3
AERSR221033	Stream	7.08	26.3	5.15	1.03	4.89	0.75	4.84	1.00	3.09	0.47	3.04	0.50	0.9	21.2	10.3	93	25.4	6.2	0.6	0.3
AERSR221034	Stream	7.71	28.3	5.42	1.18	5.56	0.86	5.41	1.08	3.56	0.53	3.59	0.58	1.0	24.7	13.0	92	26.1	6.1	1.1	0.3
AERSR221035	Stream	7.06	26.6	5.12	1.13	4.97	0.75	4.46	0.97	3.05	0.44	3.11	0.45	1.5	26.4	11.6	118	30.4	5.1	1.4	0.4
AERSR221036	Stream	7.20	28.1	5.32	1.20	5.08	0.79	4.68	0.96	2.82	0.43	2.84	0.43	0.6	21.4	11.8	84	26.1	4.2	0.9	0.3
AERSR221037	Stream	7.83	28.6	5.00	1.22	5.04	0.80	5.00	0.94	3.23	0.47	3.30	0.51	1.0	18.1	11.7	90	27.8	7.3	0.5	0.3
AERSR221038	Stream	7.84	28.6	5.65	1.19	5.20	0.80	4.85	1.02	3.25	0.45	3.17	0.52	1.1	21.9	12.6	107	28.5	4.0	1.6	0.4
AERSR221039	Stream	8.94	34.4	6.61	1.37	6.19	0.95	5.80	1.25	3.69	0.57	4.00	0.67	0.4	12.3	9.9	86	20.2	4.1	0.4	0.2
AERSR221040	Stream	7.77	29.6	5.68	1.12	4.62	0.75	4.29	0.94	2.70	0.39	2.60	0.41	0.4	25.3	12.7	75	21.5	3.8	0.5	0.2
AERSR221041	Pulp DUP	7.83	29.4	5.71	1.25	5.31	0.82	4.95	0.96	2.81	0.45	2.79	0.42	1.6	23.5	12.0	102	24.7	4.2	1.3	0.3
AERSR221042	Stream	7.31	28.0	5.45	1.27	5.55	0.85	4.91	1.04	3.14	0.45	2.93	0.49	0.9	25.1	12.7	101	25.3	4.5	1.9	0.4
AERSR221043	Stream	3.89	14.4	2.90	0.60	2.69	0.42	2.64	0.53	1.62	0.22	1.59	0.24	0.9	6.7	5.5	79	11.0	2.8	0.4	0.2
AERSR221044	Stream	2.45	9.8	1.79	0.38	1.86	0.26	1.64	0.35	0.98	0.16	1.04	0.16	0.9	7.2	3.2	48	10.7	2.5	0.3	0.5
AERSR221045	Stream	5.64	21.7	4.00	0.93	3.74	0.57	3.53	0.74	2.01	0.29	2.00	0.30	2.7	14.1	7.7	88	23.9	4.7	0.6	0.3
AERSR221046	Stream	7.48	28.5	5.28	1.24	4.75	0.72	3.98	0.96	2.57	0.39	2.74	0.42	1.2	29.8	13.3	108	30.9	4.5	1.6	0.4
AERSR221047	Stream	6.85	26.3	4.99	1.01	4.31	0.65	3.99	0.79	2.50	0.39	2.38	0.39	0.7	16.6	10.9	97	22.1	6.2	0.4	0.2
AERSR221048	Stream	7.98	29.6	5.40	1.10	5.00	0.75	4.61	0.99	2.97	0.46	3.14	0.51	1.2	13.8	12.1	82	20.6	5.9	0.5	0.3
AERSR221049	Stream	7.33	26.6	4.47	0.94	4.28	0.70	4.03	0.84	2.70	0.39	2.65	0.44	0.6	12.3	10.8	59	16.2	4.9	0.4	0.3
AERSR221050	Stream	6.88	25.5	4.67	1.06	4.50	0.69	4.04	0.91	2.93	0.39	2.75	0.43	0.8	14.2	11.2	98	30.8	<0.5	1.0	0.3
AERSR221051	Stream	5.53	20.8	3.46	0.72	3.20	0.48	2.89	0.63	1.93	0.27	1.95	0.30	0.4	12.4	19.2	215	8.8	4.9	0.6	0.3
AERSR221052	Stream	7.62	29.4	5.75	1.26	5.62	0.81	5.28	1.03	3.06	0.44	3.37	0.53	3.3	24.7	11.8	117	28.8	4.5	1.7	0.4
AERSR221053	Rock Pulp	6.88	25.3	4.15	1.01	2.83	0.37	2.09	0.44	1.11	0.16	1.10	0.16	11.4	152.5	264.4	203	76.2	9.1	0.5	0.2
AERSR221054	Stream	7.16	26.2	5.31	1.09	4.99	0.74	4.61	0.90	2.71	0.39	2.70	0.41	1.8	22.5	12.5	100	25.1	4.6	1.3	0.3
AERSR221055	Stream	7.47	28.4	5.27	1.22	5.11	0.75	4.56	0.88	2.68	0.38	2.51	0.41	1.7	26.1	13.8	106	25.7	4.4	1.7	0.4
AERSR221056	Stream	7.43	28.3	5.31	1.19	4.89	0.78	4.65	1.02	2.95	0.45	3.05	0.51	0.8	21.3	10.1	82	20.8	4.0	0.9	0.4
AERSR221057	Stream	7.52	29.0	5.38	1.16	4.96	0.73	4.74	0.93	2.91	0.44	3.14	0.48	0.9	22.9	11.4	87	22.8	5.2	0.9	0.4
AERSR221058	Stream	6.63	24.8	5.03	1.11	4.54	0.70	4.39	0.99	2.95	0.43	3.01	0.44	1.0	15.6	9.2	71	18.8	3.2	0.5	0.2
AERSR221059	Stream	7.62	28.5	5.40	1.25	5.17	0.78	4.56	0.98	2.98	0.44	2.91	0.49	0.8	28.7	12.9	104	27.3	4.3	1.1	0.4
AERSR221060	Stream	9.70	36.5	6.64	1.48	5.64	0.84	5.03	1.03	3.24	0.46	3.23	0.50	0.6	25.6	12.5	82	20.6	5.8	0.3	0.4



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CERTIFICATE OF ANALYSIS

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Method	Analyte	Unit	MDL	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300
				Bi	Ag	Au	Hg	Tl	Se	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba
				ppm	ppm	ppb	ppm	ppm	ppm	%	%	%	%	%	%	%	%	%	%	%	ppm
				0.1	0.1	0.5	0.01	0.1	0.5	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5
AERSR221031	Stream			0.2	0.4	0.6	0.13	0.1	2.9	56.63	11.47	2.85	0.94	1.64	0.48	1.59	0.58	0.24	0.10	0.012	1030
AERSR221032	Stream			0.1	0.2	0.8	0.04	0.1	0.9	67.19	9.64	3.02	1.93	4.41	0.75	1.62	0.58	0.21	0.05	0.013	742
AERSR221033	Stream			0.1	0.2	0.6	0.05	<0.1	0.9	74.25	10.07	2.95	1.14	1.10	0.59	1.82	0.64	0.23	0.03	0.012	1000
AERSR221034	Stream			0.2	0.3	1.3	0.07	0.1	0.9	68.96	12.03	3.47	1.49	1.84	0.83	1.85	0.66	0.21	0.07	0.011	914
AERSR221035	Stream			0.2	0.3	1.2	0.10	0.2	1.6	68.56	11.88	3.58	1.01	1.02	0.79	1.92	0.68	0.28	0.06	0.013	724
AERSR221036	Stream			0.2	0.2	1.2	0.07	0.2	1.1	64.83	11.66	3.46	1.70	2.52	0.82	1.76	0.61	0.21	0.11	0.011	773
AERSR221037	Stream			0.2	0.2	2.2	0.05	0.1	<0.5	68.79	11.52	3.73	1.52	1.89	0.73	1.97	0.63	0.21	0.05	0.012	833
AERSR221038	Stream			0.2	0.4	1.3	0.15	0.2	2.4	65.01	10.87	2.48	0.75	1.23	0.34	1.80	0.64	0.26	0.04	0.010	691
AERSR221039	Stream			0.1	0.2	0.7	0.07	0.1	<0.5	72.44	10.39	2.69	0.90	1.07	0.91	1.72	0.64	0.19	0.07	0.011	831
AERSR221040	Stream			0.2	0.1	1.2	0.03	0.2	<0.5	60.90	13.06	3.69	2.56	4.60	0.93	2.51	0.57	0.16	0.06	0.007	655
AERSR221041	Pulp DUP			0.2	0.2	1.0	0.06	0.2	0.8	59.87	11.79	3.06	2.30	5.30	0.65	2.26	0.62	0.28	0.09	0.010	625
AERSR221042	Stream			0.2	0.5	0.8	0.10	0.1	2.5	67.67	11.63	3.22	0.87	1.02	0.66	1.71	0.62	0.23	0.06	0.011	819
AERSR221043	Stream			<0.1	<0.1	1.5	0.03	<0.1	<0.5	38.20	5.22	1.59	5.94	16.99	0.31	1.44	0.31	0.23	0.04	0.005	286
AERSR221044	Stream			<0.1	<0.1	2.4	0.05	<0.1	2.6	33.45	3.41	1.03	3.23	13.09	0.19	1.15	0.21	0.39	0.02	0.005	196
AERSR221045	Stream			0.1	0.1	0.7	0.05	0.3	1.3	53.11	8.42	2.93	2.67	5.03	0.42	1.72	0.46	0.35	0.06	0.008	406
AERSR221046	Stream			0.2	0.3	1.3	0.07	0.2	1.4	63.88	12.91	3.69	1.39	2.29	0.76	2.03	0.67	0.19	0.09	0.012	769
AERSR221047	Stream			0.1	0.1	1.9	0.04	0.1	1.2	65.64	11.13	3.93	1.18	1.59	0.92	1.70	0.58	0.25	0.08	0.011	856
AERSR221048	Stream			0.2	0.2	1.3	0.07	0.2	0.9	70.52	10.46	2.82	1.56	1.98	0.65	2.00	0.59	0.20	0.05	0.009	714
AERSR221049	Stream			0.2	0.1	0.8	0.02	0.2	0.5	67.43	9.08	2.59	2.39	4.89	0.63	1.90	0.53	0.16	0.05	0.007	503
AERSR221050	Stream			0.1	0.2	1.8	0.07	0.2	25.8	55.66	10.27	3.11	1.84	4.97	0.80	1.97	0.54	0.32	0.21	0.008	582
AERSR221051	Stream			<0.1	<0.1	1.9	0.04	0.6	0.8	35.97	6.47	2.08	6.36	18.22	0.55	1.55	0.33	0.15	0.06	0.005	446
AERSR221052	Stream			0.1	0.2	1.9	0.07	0.3	1.6	65.00	11.69	3.21	1.78	2.40	0.70	2.27	0.66	0.28	0.08	0.013	673
AERSR221053	Rock Pulp			0.1	<0.1	37.9	0.02	<0.1	<0.5	72.15	11.98	3.92	1.71	3.34	3.40	1.45	0.37	0.13	0.06	0.015	464
AERSR221054	Stream			0.1	0.2	3.4	0.08	0.3	1.4	61.71	11.21	3.08	2.18	5.10	0.65	2.09	0.61	0.30	0.08	0.011	616
AERSR221055	Stream			0.2	0.2	2.6	0.08	0.3	1.2	59.59	11.62	3.12	2.31	5.43	0.65	2.22	0.61	0.28	0.09	0.011	659
AERSR221056	Stream			0.1	0.2	1.5	0.08	0.1	1.3	71.91	11.32	2.94	0.90	0.98	0.86	1.71	0.67	0.24	0.05	0.011	631
AERSR221057	Stream			0.1	0.2	1.9	0.09	0.1	0.8	69.80	11.66	3.51	1.08	1.28	0.85	1.80	0.66	0.22	0.05	0.010	796
AERSR221058	Stream			<0.1	0.1	1.6	0.04	<0.1	0.9	70.37	10.10	3.03	1.37	2.40	0.83	1.46	0.63	0.19	0.06	0.011	624
AERSR221059	Stream			0.2	0.2	2.5	0.08	0.2	0.5	67.00	13.43	4.26	1.33	1.29	1.14	2.06	0.68	0.18	0.14	0.011	822
AERSR221060	Stream			0.1	0.1	3.6	0.05	0.2	<0.5	67.50	12.32	4.37	1.38	2.30	1.36	2.28	0.73	0.20	0.07	0.010	846



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CERTIFICATE OF ANALYSIS

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Method	LF300	LF300	LF300	LF300	LF300	LF300	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
Analyte	Zr	Y	Nb	Sc	LOI	Sum	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr
Unit	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm
MDL	5	3	5	1	-5.1	0.01	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5
AERSR221031	Stream	317	26	11	11	23.2	99.92	1.14	27.88	11.09	154.2	413	38.2	9.3	772	1.53	4.6	1.1	1.2	1.5
AERSR221032	Stream	702	27	14	8	10.3	99.92	0.84	17.24	9.24	83.6	170	22.2	6.6	392	1.61	4.4	0.7	0.8	3.0
AERSR221033	Stream	605	28	14	10	6.9	99.94	0.84	19.80	9.89	85.4	195	23.0	7.1	258	1.66	5.8	0.8	0.7	3.4
AERSR221034	Stream	652	31	11	10	8.3	99.93	1.01	23.43	12.75	90.6	279	24.7	8.3	509	1.81	5.8	0.9	4.7	3.8
AERSR221035	Stream	478	29	14	11	10.0	99.94	1.52	24.51	10.93	113.9	298	28.6	8.8	463	1.93	4.8	0.8	1.6	2.8
AERSR221036	Stream	459	29	15	10	12.1	99.92	0.67	20.30	11.42	84.8	188	24.7	8.8	791	1.77	3.8	0.6	1.4	3.2
AERSR221037	Stream	601	26	15	10	8.7	99.92	1.05	19.77	12.08	94.8	152	26.7	9.5	348	2.06	7.0	0.7	0.9	3.9
AERSR221038	Stream	477	27	15	10	16.3	99.94	0.84	18.81	10.32	89.5	319	23.1	5.9	261	1.27	2.9	0.8	1.3	2.0
AERSR221039	Stream	946	32	14	9	8.6	99.93	0.47	11.72	9.04	81.3	191	19.4	5.7	486	1.40	3.2	0.8	1.0	2.2
AERSR221040	Stream	239	25	13	11	10.8	99.92	0.57	26.72	12.44	79.4	99	22.0	7.5	401	1.59	3.1	0.7	1.8	4.4
AERSR221041	Pulp DUP	314	26	19	11	13.5	99.89	1.77	24.81	12.30	106.1	165	24.4	7.1	652	1.55	4.0	0.7	2.6	3.0
AERSR221042	Stream	371	28	11	11	12.1	99.93	1.00	26.23	11.87	99.6	464	26.2	7.7	409	1.60	4.0	1.4	1.7	2.0
AERSR221043	Stream	226	15	<5	5	29.5	99.87	0.93	6.27	5.07	73.2	59	10.5	2.8	240	0.71	2.1	0.6	0.4	0.7
AERSR221044	Stream	164	10	<5	3	43.7	99.92	1.01	8.15	3.40	51.4	53	12.0	2.0	161	0.54	1.6	0.8	0.4	0.5
AERSR221045	Stream	270	21	10	8	24.6	99.92	2.73	14.74	7.92	92.2	133	24.6	5.1	400	1.58	4.5	0.7	0.8	1.3
AERSR221046	Stream	305	25	10	12	11.8	99.90	1.37	31.83	13.25	110.4	249	30.4	8.6	645	1.95	4.0	0.7	1.6	2.8
AERSR221047	Stream	367	24	11	9	12.8	99.92	0.75	16.53	10.60	90.3	129	21.3	8.4	563	2.17	5.9	0.5	1.0	2.5
AERSR221048	Stream	591	28	14	8	8.9	99.92	1.25	14.04	12.02	84.1	166	20.3	6.4	340	1.48	5.2	0.7	0.7	3.2
AERSR221049	Stream	484	24	14	7	10.1	99.92	0.60	11.87	10.48	60.2	86	15.8	5.4	333	1.27	4.2	0.7	0.5	3.7
AERSR221050	Stream	522	25	15	9	20.1	99.93	0.82	13.65	10.35	95.9	188	28.8	8.8	1484	1.57	<0.1	0.7	0.9	1.7
AERSR221051	Stream	436	17	8	5	28.0	99.83	0.34	12.49	19.55	218.6	72	9.7	3.8	411	0.99	4.1	0.6	1.2	1.6
AERSR221052	Stream	621	29	15	11	11.7	99.93	3.35	26.12	11.60	122.3	194	30.2	7.7	621	1.75	4.4	1.0	1.5	2.9
AERSR221053	Rock Pulp	164	11	16	9	1.2	99.87	11.88	149.27	258.30	205.1	105	77.1	47.8	265	1.55	9.0	0.4	37.0	2.9
AERSR221054	Stream	380	26	18	10	12.7	99.91	1.94	23.78	11.94	104.0	171	25.8	7.4	617	1.63	4.2	0.7	1.1	3.0
AERSR221055	Stream	313	26	13	11	13.8	99.91	1.92	26.16	13.18	110.2	176	26.8	7.7	694	1.65	4.3	0.7	1.3	3.3
AERSR221056	Stream	444	26	15	10	8.2	99.94	0.99	22.21	10.24	86.0	250	21.6	6.5	403	1.56	3.6	0.7	1.8	2.8
AERSR221057	Stream	478	27	14	10	8.8	99.92	0.98	23.02	10.49	86.2	170	22.9	7.5	382	1.89	4.9	0.7	1.5	2.8
AERSR221058	Stream	621	25	11	9	9.3	99.92	0.94	17.72	8.47	78.4	125	21.0	7.2	463	1.62	3.2	0.6	0.7	2.4
AERSR221059	Stream	445	26	13	12	8.2	99.92	0.84	32.39	11.76	113.6	148	30.1	9.3	1085	2.17	4.7	0.6	2.3	2.8
AERSR221060	Stream	729	29	21	9	7.1	99.92	0.55	25.48	11.02	83.4	129	20.7	8.0	481	2.16	5.0	0.8	2.4	3.6



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Method Analyte Unit MDL		AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
		Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg
		ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb
		0.01	0.02	0.02	1	0.01	0.001	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5
AERSR221031	Stream	2.58	0.72	0.16	33	1.00	0.086	9.1	15.7	0.33	616.3	0.004	5	1.17	0.009	0.15	<0.1	4.0	0.18	0.06	133
AERSR221032	Stream	0.73	0.44	0.13	29	2.78	0.079	10.8	14.5	0.90	285.7	0.004	3	0.99	0.008	0.13	<0.1	3.1	0.14	0.06	48
AERSR221033	Stream	0.60	0.42	0.14	28	0.68	0.086	8.0	14.3	0.43	446.2	0.003	4	0.89	0.007	0.13	<0.1	3.3	0.10	0.11	58
AERSR221034	Stream	1.06	0.51	0.17	32	1.12	0.079	16.7	15.8	0.63	447.7	0.004	2	1.34	0.008	0.16	<0.1	4.0	0.15	0.04	92
AERSR221035	Stream	1.32	0.57	0.15	31	0.56	0.102	9.6	15.5	0.33	304.6	0.004	4	1.13	0.007	0.16	<0.1	4.4	0.21	0.04	84
AERSR221036	Stream	0.83	0.41	0.18	31	1.62	0.078	14.3	19.6	0.68	424.6	0.002	2	1.72	0.009	0.18	<0.1	4.3	0.18	0.04	73
AERSR221037	Stream	0.46	0.41	0.17	29	1.20	0.079	10.0	16.5	0.59	328.0	0.002	3	1.04	0.007	0.13	<0.1	3.5	0.15	0.07	44
AERSR221038	Stream	1.25	0.59	0.14	23	0.75	0.093	6.6	10.1	0.22	333.4	<0.001	4	0.68	0.006	0.12	<0.1	3.3	0.14	0.05	111
AERSR221039	Stream	0.40	0.24	0.13	23	0.52	0.069	10.0	10.6	0.26	304.5	0.005	3	1.08	0.009	0.13	<0.1	2.7	0.13	0.04	55
AERSR221040	Stream	0.58	0.40	0.22	17	2.88	0.060	11.0	13.0	1.01	279.6	0.002	3	1.21	0.009	0.23	<0.1	3.5	0.19	0.04	34
AERSR221041	Pulp DUP	1.47	0.59	0.18	23	3.28	0.106	7.3	13.4	0.93	276.4	0.002	6	0.93	0.009	0.20	<0.1	4.4	0.26	0.17	54
AERSR221042	Stream	1.66	0.70	0.15	30	0.53	0.077	9.7	14.4	0.27	345.8	0.002	2	1.09	0.005	0.11	<0.1	3.7	0.16	0.04	97
AERSR221043	Stream	0.38	0.24	0.07	13	9.61	0.079	6.4	10.1	2.82	104.5	0.004	6	0.58	0.010	0.14	0.1	1.3	0.08	0.05	27
AERSR221044	Stream	0.31	0.56	0.05	11	8.16	0.161	4.8	9.0	1.56	78.2	0.004	18	0.40	0.009	0.25	0.1	1.1	0.07	0.13	45
AERSR221045	Stream	0.55	0.43	0.13	20	3.08	0.134	7.5	12.5	1.22	172.0	0.002	9	0.85	0.008	0.19	0.2	2.6	0.30	0.08	58
AERSR221046	Stream	1.59	0.62	0.20	34	1.47	0.070	9.2	20.1	0.51	333.3	0.002	4	1.34	0.008	0.16	<0.1	4.6	0.17	0.06	67
AERSR221047	Stream	0.41	0.27	0.15	27	0.95	0.093	7.9	14.4	0.42	379.0	0.002	4	1.19	0.009	0.13	<0.1	3.2	0.12	0.08	39
AERSR221048	Stream	0.49	0.38	0.18	21	1.25	0.071	10.0	12.6	0.59	275.3	0.002	3	0.97	0.007	0.13	<0.1	2.7	0.18	0.07	49
AERSR221049	Stream	0.42	0.32	0.18	18	3.05	0.060	12.0	10.2	1.10	160.8	0.002	2	0.97	0.006	0.15	<0.1	2.2	0.14	<0.02	24
AERSR221050	Stream	1.06	0.44	0.15	22	2.99	0.119	8.0	13.3	0.72	367.1	0.002	8	0.93	0.008	0.17	<0.1	3.0	0.19	0.09	63
AERSR221051	Stream	0.75	0.33	0.10	19	11.19	0.054	9.1	7.9	3.39	165.3	0.007	6	0.79	0.056	0.12	0.1	1.6	0.57	0.05	35
AERSR221052	Stream	1.60	0.57	0.17	31	1.50	0.112	9.4	15.7	0.70	309.8	0.003	5	1.04	0.008	0.16	<0.1	4.4	0.40	0.11	64
AERSR221053	Rock Pulp	0.47	0.19	0.14	23	0.55	0.052	22.8	29.7	0.46	57.8	0.067	2	0.77	0.086	0.11	<0.1	2.8	0.08	0.04	11
AERSR221054	Stream	1.36	0.50	0.18	23	3.20	0.112	7.5	13.9	0.93	279.9	0.002	6	0.96	0.009	0.17	<0.1	4.3	0.28	0.20	55
AERSR221055	Stream	1.55	0.58	0.19	24	3.59	0.113	7.7	14.8	0.98	318.8	0.003	9	1.00	0.008	0.22	<0.1	4.8	0.28	0.18	71
AERSR221056	Stream	0.95	0.56	0.15	26	0.48	0.089	8.8	13.9	0.27	268.4	0.003	4	1.00	0.006	0.14	<0.1	3.9	0.15	0.04	70
AERSR221057	Stream	0.87	0.50	0.15	28	0.68	0.077	11.1	14.4	0.39	317.3	0.003	3	1.05	0.007	0.13	<0.1	3.7	0.14	0.03	67
AERSR221058	Stream	0.53	0.32	0.11	25	1.48	0.072	9.7	13.6	0.60	245.7	0.004	2	0.99	0.007	0.11	<0.1	3.2	0.09	0.02	36
AERSR221059	Stream	1.13	0.54	0.17	37	0.65	0.067	13.8	20.1	0.49	287.2	0.005	2	1.52	0.010	0.15	<0.1	4.6	0.16	0.04	67
AERSR221060	Stream	0.39	0.49	0.16	46	1.25	0.074	20.6	15.3	0.54	216.4	0.018	2	1.29	0.054	0.14	<0.1	3.4	0.13	0.02	39



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Method Analyte Unit MDL		AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Se	Te	Ga	Cs	Ge	Hf	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pr	Nd	Sm
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm
		0.1	0.02	0.1	0.02	0.1	0.02	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	0.02	0.02	0.02
AERSR221031	Stream	2.8	0.04	3.2	1.30	<0.1	0.07	0.26	14.7	0.4	<0.05	2.3	12.32	18.3	0.03	5	0.9	14.8	2.37	10.47	2.56
AERSR221032	Stream	0.9	0.04	2.8	0.97	<0.1	0.05	0.16	9.8	0.3	<0.05	1.8	11.02	21.3	0.02	<1	0.6	11.6	2.82	12.09	2.78
AERSR221033	Stream	0.9	0.05	2.6	1.25	<0.1	0.03	0.11	10.9	0.3	<0.05	1.4	11.23	17.2	0.03	2	0.6	13.2	2.32	10.55	2.76
AERSR221034	Stream	0.9	0.04	3.7	1.56	<0.1	0.05	0.17	12.5	0.5	<0.05	2.0	12.10	34.7	0.03	<1	0.9	13.3	4.27	17.44	3.68
AERSR221035	Stream	1.6	0.05	3.1	1.28	<0.1	0.04	0.19	12.1	0.4	<0.05	1.4	12.08	20.1	0.03	2	0.7	14.7	2.61	11.66	2.88
AERSR221036	Stream	1.1	0.04	4.5	1.21	<0.1	0.11	0.13	14.1	0.4	<0.05	2.9	14.52	29.3	0.03	<1	0.7	18.8	4.10	17.78	3.88
AERSR221037	Stream	0.7	0.04	3.2	1.08	<0.1	0.07	0.11	11.2	0.4	<0.05	2.1	11.15	21.4	0.03	1	0.7	14.4	2.87	12.69	3.09
AERSR221038	Stream	2.1	0.05	1.9	0.96	<0.1	0.04	0.14	9.7	0.3	<0.05	1.2	10.90	14.2	0.03	3	0.7	7.2	1.97	9.08	2.39
AERSR221039	Stream	0.6	0.04	3.0	0.84	<0.1	0.06	0.41	10.6	0.3	<0.05	2.4	12.36	21.3	0.02	3	0.7	15.6	2.78	12.47	3.12
AERSR221040	Stream	0.6	0.04	3.3	1.57	<0.1	0.08	0.08	16.5	0.5	<0.05	2.1	9.34	25.0	0.03	1	0.8	14.2	3.28	14.16	3.27
AERSR221041	Pulp DUP	1.5	0.06	2.2	1.27	<0.1	0.04	0.09	10.6	0.4	<0.05	1.3	12.06	16.1	0.03	7	0.6	14.5	2.26	10.67	2.96
AERSR221042	Stream	2.4	0.05	2.9	1.28	<0.1	0.06	0.16	10.4	0.4	<0.05	1.9	12.73	20.5	0.03	3	0.8	13.2	2.77	12.24	2.97
AERSR221043	Stream	0.9	0.03	1.5	0.56	<0.1	0.04	0.19	6.8	0.2	<0.05	1.4	7.52	11.6	<0.02	<1	0.3	7.9	1.61	6.87	1.51
AERSR221044	Stream	2.8	<0.02	1.4	0.80	<0.1	0.05	0.14	7.9	0.1	<0.05	1.5	5.64	8.1	<0.02	<1	0.3	6.6	1.20	5.12	1.08
AERSR221045	Stream	1.5	0.04	2.0	0.76	<0.1	0.06	0.17	10.7	0.4	<0.05	1.6	10.82	14.5	0.02	2	0.5	12.3	2.05	9.26	2.31
AERSR221046	Stream	1.2	0.05	3.7	1.19	<0.1	0.07	0.13	11.2	0.4	<0.05	1.9	11.14	19.7	0.03	2	0.9	18.1	2.65	11.85	2.97
AERSR221047	Stream	1.2	0.05	3.5	0.61	<0.1	0.10	0.20	10.4	0.4	<0.05	2.8	9.60	17.8	0.03	3	0.6	17.0	2.33	10.25	2.59
AERSR221048	Stream	1.0	0.03	2.8	1.27	<0.1	0.05	0.12	11.3	0.3	<0.05	1.8	11.89	21.0	0.03	2	0.6	14.0	2.84	12.65	3.05
AERSR221049	Stream	0.5	0.03	2.6	1.17	<0.1	0.06	0.09	10.8	0.4	<0.05	2.0	9.28	25.7	<0.02	<1	0.5	11.5	3.20	13.18	2.84
AERSR221050	Stream	24.3	0.04	2.2	0.81	<0.1	0.06	0.18	12.9	0.4	<0.05	2.1	11.60	18.1	0.03	2	0.7	13.1	2.48	11.22	2.78
AERSR221051	Stream	1.0	0.03	1.9	1.42	<0.1	0.05	0.79	11.2	0.4	<0.05	2.1	7.10	17.9	<0.02	<1	1.0	9.9	2.14	8.60	1.74
AERSR221052	Stream	1.5	0.06	2.7	1.37	<0.1	0.05	0.12	10.8	0.4	<0.05	1.5	13.02	20.4	0.03	11	0.7	14.8	2.90	13.21	3.27
AERSR221053	Rock Pulp	0.2	0.03	2.5	1.07	<0.1	0.16	0.59	6.7	2.2	<0.05	5.6	5.28	39.2	0.03	<1	0.2	8.4	4.67	15.92	2.39
AERSR221054	Stream	1.4	0.06	2.2	1.33	<0.1	0.04	0.10	10.9	0.4	<0.05	1.3	12.27	16.4	0.03	8	0.7	14.8	2.34	11.01	3.01
AERSR221055	Stream	1.6	0.07	2.4	1.51	<0.1	0.04	0.11	11.9	0.4	<0.05	1.4	12.80	18.1	0.04	9	0.7	16.1	2.46	11.67	3.19
AERSR221056	Stream	1.2	0.05	2.7	1.30	<0.1	0.04	0.11	10.0	0.4	<0.05	1.2	10.93	19.4	0.03	1	0.6	13.6	2.54	11.40	2.97
AERSR221057	Stream	1.0	0.04	3.0	1.19	<0.1	0.04	0.14	10.2	0.8	<0.05	1.4	10.34	22.8	0.03	2	0.8	12.5	2.97	12.55	2.90
AERSR221058	Stream	0.8	0.03	2.8	0.69	<0.1	0.06	0.16	7.6	0.8	<0.05	2.3	8.95	19.6	0.02	<1	0.6	11.4	2.58	11.22	2.51
AERSR221059	Stream	0.9	0.06	4.3	1.58	<0.1	0.04	0.30	11.7	0.9	<0.05	1.6	10.56	27.5	0.03	1	0.8	19.5	3.59	14.99	3.18
AERSR221060	Stream	0.5	0.04	3.9	1.61	<0.1	0.10	0.92	10.9	0.8	<0.05	5.1	10.45	40.9	0.03	<1	0.9	14.6	5.01	19.11	3.60



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		Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Pd	Pt
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb
		0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	10	2
AERSR221031	Stream	0.57	2.77	0.37	2.18	0.38	0.98	0.12	0.76	0.11	<10	<2
AERSR221032	Stream	0.58	2.69	0.34	1.94	0.33	0.83	0.10	0.61	0.08	<10	<2
AERSR221033	Stream	0.61	2.87	0.38	2.14	0.36	0.87	0.10	0.59	0.08	<10	<2
AERSR221034	Stream	0.76	3.32	0.42	2.25	0.38	0.97	0.12	0.70	0.09	<10	<2
AERSR221035	Stream	0.66	3.00	0.39	2.19	0.37	0.91	0.11	0.64	0.08	<10	<2
AERSR221036	Stream	0.82	3.53	0.45	2.57	0.44	1.11	0.13	0.80	0.11	<10	<2
AERSR221037	Stream	0.66	3.02	0.39	2.16	0.36	0.89	0.11	0.62	0.08	<10	<2
AERSR221038	Stream	0.55	2.64	0.35	1.99	0.34	0.82	0.09	0.56	0.08	<10	<2
AERSR221039	Stream	0.69	3.24	0.41	2.25	0.39	0.96	0.12	0.69	0.09	<10	<2
AERSR221040	Stream	0.65	2.86	0.36	1.91	0.30	0.72	0.08	0.46	0.06	<10	<2
AERSR221041	Pulp DUP	0.70	3.14	0.41	2.24	0.37	0.89	0.10	0.60	0.08	<10	<2
AERSR221042	Stream	0.68	3.06	0.40	2.25	0.39	0.97	0.12	0.70	0.10	<10	<2
AERSR221043	Stream	0.31	1.50	0.19	1.16	0.20	0.55	0.07	0.42	0.06	<10	<2
AERSR221044	Stream	0.22	1.07	0.12	0.85	0.16	0.42	0.05	0.34	0.05	<10	<2
AERSR221045	Stream	0.53	2.42	0.31	1.79	0.31	0.78	0.10	0.56	0.08	<10	<2
AERSR221046	Stream	0.69	2.98	0.38	2.12	0.35	0.91	0.11	0.66	0.08	<10	<2
AERSR221047	Stream	0.59	2.55	0.33	1.86	0.30	0.75	0.09	0.51	0.07	<10	<2
AERSR221048	Stream	0.63	2.92	0.37	2.06	0.35	0.88	0.11	0.61	0.08	<10	<2
AERSR221049	Stream	0.54	2.46	0.30	1.68	0.28	0.72	0.09	0.52	0.07	<10	<2
AERSR221050	Stream	0.60	2.79	0.37	2.11	0.36	0.91	0.11	0.66	0.09	<10	<2
AERSR221051	Stream	0.37	1.62	0.20	1.16	0.20	0.54	0.07	0.41	0.06	<10	<2
AERSR221052	Stream	0.73	3.29	0.44	2.44	0.41	1.02	0.12	0.72	0.09	<10	<2
AERSR221053	Rock Pulp	0.50	1.55	0.18	1.02	0.18	0.49	0.07	0.42	0.06	44	25
AERSR221054	Stream	0.71	3.19	0.41	2.29	0.37	0.91	0.10	0.62	0.08	<10	<2
AERSR221055	Stream	0.74	3.37	0.42	2.38	0.40	0.96	0.11	0.64	0.08	<10	<2
AERSR221056	Stream	0.68	3.04	0.39	2.14	0.35	0.86	0.10	0.58	0.08	<10	<2
AERSR221057	Stream	0.64	2.84	0.36	1.92	0.32	0.80	0.09	0.58	0.08	<10	<2
AERSR221058	Stream	0.54	2.36	0.29	1.67	0.28	0.71	0.08	0.51	0.07	<10	<2
AERSR221059	Stream	0.70	2.87	0.35	2.01	0.33	0.86	0.10	0.64	0.09	<10	<2
AERSR221060	Stream	0.77	2.92	0.36	1.97	0.34	0.87	0.11	0.67	0.09	<10	<2



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	Method Analyte Unit MDL	WGHT	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100
		Wgt	Ba	Be	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	La	Ce
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	1	1	0.2	0.1	0.5	0.1	0.1	0.1	1	0.5	0.1	0.2	0.1	8	0.5	0.1	0.1	0.1	0.1
AERSR221061	Pulp DUP	<0.01	931	4	9.5	5.6	11.7	9.2	11.2	86.9	2	104.5	0.7	10.0	3.4	115	1.6	346.2	27.7	33.3	64.1
AERSR221062	Stream	1.80	694	5	8.4	4.1	11.9	10.9	10.1	68.5	2	247.7	0.7	9.0	3.5	94	1.4	424.6	25.3	30.4	57.1
AERSR221063	Stream	1.66	743	4	8.6	4.4	12.8	8.8	9.8	74.3	2	310.5	0.8	8.8	3.1	107	1.4	338.6	22.5	30.0	56.6
AERSR221064	Stream	1.70	607	<1	6.1	3.2	9.1	15.0	9.8	57.3	1	254.1	0.6	8.2	3.8	79	1.2	591.5	24.5	29.9	56.9
AERSR221065	Stream	3.19	663	2	8.3	4.4	11.7	9.9	9.9	67.4	1	160.9	0.8	8.6	3.2	89	1.1	379.0	24.6	29.8	56.6
AERSR221066	Stream	2.14	522	7	5.5	3.6	8.4	7.8	7.4	58.0	1	241.9	0.5	6.8	2.8	71	1.1	305.2	20.0	24.2	44.2
AERSR221067	Stream	2.60	745	2	9.8	5.1	13.1	7.0	10.0	78.7	2	159.4	0.7	8.9	3.3	103	1.4	275.4	23.3	31.2	59.5
AERSR221068	Stream	2.25	609	7	7.1	4.2	9.6	11.0	9.7	68.5	1	114.2	0.7	9.2	3.6	100	1.5	416.1	25.9	30.6	55.4
AERSR221069	Stream	2.03	670	<1	7.8	4.1	11.2	10.1	9.6	68.8	2	200.6	0.6	9.3	3.4	91	1.2	406.6	25.4	32.8	61.3
AERSR221070	Stream	1.99	677	2	9.5	4.3	11.8	7.8	9.6	71.1	3	229.6	0.7	9.4	3.2	101	1.3	304.1	24.5	29.8	57.8
AERSR221071	Stream	1.44	643	2	6.4	3.5	10.4	11.2	8.9	60.8	2	196.6	0.7	8.0	3.6	87	0.6	459.4	21.4	27.6	50.4
AERSR221072	Rock Pulp	0.07	475	<1	52.1	2.0	13.2	4.0	16.4	37.5	6	416.3	0.5	4.1	0.8	60	0.7	163.8	11.6	33.7	59.8
AERSR221073	Stream	2.08	853	2	11.7	5.1	13.8	9.8	16.4	86.0	2	173.8	1.0	12.0	3.7	125	7.1	394.2	27.4	36.4	72.8
AERSR221074	Stream	2.97	999	2	7.0	5.1	11.5	13.1	10.8	80.1	<1	110.9	0.8	10.2	4.2	99	1.2	508.5	27.6	35.4	68.3
AERSR221075	Stream	2.66	985	<1	9.4	5.5	13.2	9.2	10.7	89.4	1	109.9	0.7	10.4	4.0	118	2.0	368.2	26.0	35.7	68.7
AERSR221076	Stream	2.76	936	<1	9.8	8.7	17.3	9.6	14.4	106.0	3	122.6	1.1	13.0	4.4	123	2.6	354.7	27.6	41.6	75.4
AERSR221077	Stream	2.22	966	<1	6.8	4.2	11.8	10.8	11.6	78.5	1	146.9	0.6	10.8	3.8	106	1.2	434.1	25.6	35.8	69.1
AERSR221078	Stream	2.11	832	<1	8.9	3.9	12.4	12.9	10.8	74.7	1	153.7	0.8	11.8	3.2	82	1.3	505.5	26.6	39.3	77.6
AERSR221079	Stream	2.23	773	<1	8.0	4.7	12.0	13.6	11.7	87.7	2	117.7	0.9	12.2	4.2	96	1.5	530.0	28.2	39.4	79.0
AERSR221080	Stream	2.80	731	<1	12.9	7.9	15.8	6.4	13.1	113.5	1	225.8	0.9	10.2	3.6	104	1.4	246.6	23.1	32.4	61.9
AERSR221081	Pulp DUP		1022	<1	10.4	5.7	14.7	10.4	12.3	85.7	1	148.3	0.9	10.6	4.2	158	1.4	426.8	30.1	35.4	67.4
AERSR221082	Stream	2.05	638	<1	6.4	5.0	10.6	11.7	15.3	79.7	1	351.4	0.8	9.4	3.5	96	2.5	500.8	27.0	38.9	73.6
AERSR221083	Stream	2.78	826	<1	13.1	4.3	14.7	6.9	10.1	70.5	1	188.5	0.8	8.5	3.4	128	0.9	281.0	25.1	31.2	59.8
AERSR221084	Stream	2.53	1015	6	9.9	4.8	12.5	9.2	11.2	76.4	2	121.9	0.8	8.8	3.9	127	1.3	383.5	25.1	31.1	58.9
AERSR221085	Stream	2.49	834	<1	10.2	4.6	13.8	9.5	10.7	73.2	2	165.1	0.8	9.2	3.8	112	1.4	370.2	25.3	30.3	56.0
AERSR221086	Stream	2.63	840	<1	8.1	4.4	12.0	13.0	12.8	73.8	1	230.9	0.8	9.5	4.2	121	1.1	516.1	26.5	36.0	66.4
AERSR221087	Stream	3.19	836	2	7.9	4.7	11.7	14.1	13.5	80.2	1	253.5	0.9	9.5	4.0	115	1.1	568.9	29.5	37.8	68.2
AERSR221088	Stream	2.98	445	<1	5.5	2.9	8.5	15.2	9.6	56.2	3	123.9	0.7	6.9	4.1	76	0.9	621.8	23.5	26.8	48.4
AERSR221089	Stream	2.63	938	2	10.3	5.5	15.4	11.6	11.7	76.4	1	154.2	0.9	9.3	4.2	134	1.1	470.8	26.7	31.2	58.9
AERSR221090	Rock Pulp	0.06	480	<1	53.1	1.9	14.0	3.7	16.2	37.4	6	430.6	0.5	4.2	0.8	60	<0.5	152.5	11.9	33.4	60.6



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Method Analyte Unit MDL		LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Mo	Cu	Pb	Zn	Ni	As	Cd	Sb
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.3	0.05	0.02	0.05	0.01	0.05	0.02	0.03	0.01	0.05	0.01	0.1	0.1	0.1	1	0.1	0.5	0.1	0.1
AERSR221061	Pulp DUP	7.49	29.1	5.06	1.06	5.15	0.74	4.58	0.93	2.65	0.43	2.75	0.43	0.6	19.5	14.4	81	18.6	6.3	0.4	0.3
AERSR221062	Stream	6.77	26.7	4.68	1.00	4.31	0.67	4.12	0.87	2.52	0.39	2.41	0.43	0.7	15.3	11.3	63	19.3	4.6	0.5	0.2
AERSR221063	Stream	6.65	25.8	4.57	0.96	4.47	0.63	3.85	0.81	2.18	0.36	2.56	0.36	0.7	19.1	11.9	67	21.5	5.9	0.4	0.3
AERSR221064	Stream	6.87	26.3	4.96	0.94	4.30	0.65	4.07	0.85	2.80	0.37	2.69	0.42	0.5	11.2	8.1	57	13.7	3.4	0.3	0.2
AERSR221065	Stream	6.75	26.0	4.87	1.04	4.46	0.66	4.07	0.90	2.45	0.35	2.53	0.37	0.5	18.3	12.7	74	19.8	5.4	0.5	0.2
AERSR221066	Stream	5.36	20.5	3.89	0.73	3.42	0.52	3.18	0.67	2.04	0.28	1.80	0.33	0.4	13.2	11.5	62	14.7	3.3	0.5	0.2
AERSR221067	Stream	7.01	26.3	5.14	0.96	4.73	0.63	3.94	0.78	2.38	0.32	2.32	0.39	0.8	19.6	15.0	78	22.8	6.1	0.6	0.3
AERSR221068	Stream	6.69	25.4	4.69	0.98	4.35	0.64	4.18	0.81	2.57	0.37	2.41	0.40	0.7	16.1	12.6	81	21.0	5.7	0.8	0.3
AERSR221069	Stream	7.14	26.8	5.14	0.93	4.71	0.70	4.26	0.87	2.54	0.36	2.52	0.39	0.8	15.1	11.2	57	21.0	5.1	0.3	0.3
AERSR221070	Stream	6.72	24.6	4.50	0.96	4.23	0.68	4.11	0.80	2.54	0.37	2.46	0.39	0.7	15.8	11.5	57	20.0	5.5	0.3	0.2
AERSR221071	Stream	5.86	23.3	4.12	0.96	3.83	0.59	3.68	0.73	2.38	0.34	2.36	0.37	0.7	13.6	9.7	69	17.0	3.0	0.5	0.2
AERSR221072	Rock Pulp	6.98	24.9	3.88	1.04	3.09	0.38	2.18	0.44	1.20	0.18	1.13	0.18	12.5	151.1	291.3	209	79.8	10.3	0.5	0.2
AERSR221073	Stream	8.12	30.8	5.59	1.28	5.41	0.78	4.77	1.00	3.00	0.45	2.97	0.45	1.5	22.9	13.3	82	27.7	7.3	0.3	0.2
AERSR221074	Stream	7.75	29.7	5.22	1.15	5.06	0.82	4.86	1.01	3.27	0.48	3.11	0.48	0.6	16.0	12.4	67	16.4	6.3	0.3	0.2
AERSR221075	Stream	7.75	30.2	5.50	1.13	5.14	0.78	4.86	1.01	2.88	0.44	2.79	0.44	0.6	20.7	15.2	85	20.0	6.9	0.4	0.2
AERSR221076	Stream	8.79	32.9	5.82	1.17	5.56	0.81	4.91	0.96	3.01	0.45	3.00	0.48	0.5	18.2	17.6	73	16.3	4.8	0.4	0.1
AERSR221077	Stream	7.85	29.4	5.12	1.07	4.75	0.75	4.33	0.94	2.69	0.41	2.80	0.40	0.7	13.4	11.4	65	16.0	6.3	0.2	0.2
AERSR221078	Stream	8.82	33.4	6.07	1.16	5.13	0.78	4.58	0.94	2.82	0.42	2.98	0.45	0.5	13.3	11.2	56	18.0	7.6	0.3	0.2
AERSR221079	Stream	9.28	33.2	6.48	1.08	5.57	0.85	4.89	1.03	3.06	0.47	3.23	0.49	0.9	14.1	13.9	58	16.9	8.5	0.2	0.2
AERSR221080	Stream	7.18	28.2	5.55	1.20	4.76	0.70	4.07	0.78	2.44	0.34	2.19	0.35	3.3	33.6	14.9	166	38.7	8.0	0.8	0.2
AERSR221081	Pulp DUP	8.05	30.4	5.97	1.36	5.78	0.86	5.30	1.14	3.24	0.44	2.99	0.49	1.3	24.1	12.9	100	28.7	7.9	0.8	0.2
AERSR221082	Stream	8.44	30.3	6.03	1.20	5.09	0.74	4.32	0.90	2.98	0.40	2.81	0.44	0.8	17.0	13.8	59	13.1	5.6	0.4	0.3
AERSR221083	Stream	6.91	26.2	5.12	1.24	4.84	0.70	4.15	0.88	2.58	0.36	2.42	0.38	0.7	26.5	11.7	96	29.8	5.6	0.8	0.2
AERSR221084	Stream	6.97	25.7	4.62	1.04	4.57	0.71	4.19	0.96	2.73	0.39	2.77	0.43	0.6	19.2	11.3	102	25.1	6.4	0.5	0.2
AERSR221085	Stream	6.59	25.1	4.88	1.09	4.51	0.70	4.23	0.81	2.70	0.39	2.58	0.38	0.6	23.4	11.6	80	26.8	6.3	0.4	0.1
AERSR221086	Stream	7.90	29.7	5.83	1.26	5.17	0.75	4.79	0.92	2.91	0.41	2.89	0.46	1.0	16.8	13.3	75	21.6	4.7	0.4	0.3
AERSR221087	Stream	8.05	31.8	5.77	1.31	5.26	0.76	4.61	0.94	2.90	0.44	2.98	0.46	0.8	20.0	12.8	76	20.0	4.9	0.6	0.3
AERSR221088	Stream	5.92	22.6	4.22	0.87	4.00	0.62	4.00	0.81	2.70	0.37	2.66	0.41	1.5	12.0	9.7	77	22.1	2.8	0.9	0.2
AERSR221089	Stream	6.92	27.4	5.41	1.19	4.86	0.75	4.57	0.93	2.84	0.39	2.90	0.44	1.2	30.5	12.4	96	28.2	5.9	1.1	0.3
AERSR221090	Rock Pulp	7.02	25.7	4.01	0.99	3.03	0.39	2.37	0.41	1.23	0.18	1.05	0.17	12.5	156.2	306.2	228	80.5	9.9	0.7	0.1



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	Method	Analyte	Unit	MDL	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300		
					Bi	Ag	Au	Hg	Tl	Se	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr
					ppm	ppm	ppb	ppm	ppm	ppm	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm
					0.1	0.1	0.5	0.01	0.1	0.5	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20
AERSR221061	Pulp DUP	0.2	0.1	3.0	0.04	0.2	1.0	61.85	10.59	3.10	2.97	4.93	0.67	2.37	0.58	0.19	0.07	0.014	948	35	102			
AERSR221062	Stream	0.1	0.1	1.0	0.04	0.2	<0.5	57.60	10.07	3.23	2.66	8.18	0.80	1.82	0.53	0.19	0.06	0.010	700	26	237			
AERSR221063	Stream	0.2	0.1	2.1	0.05	0.2	1.1	54.36	10.88	3.57	2.57	9.40	0.73	1.97	0.52	0.17	0.07	0.009	729	27	297			
AERSR221064	Stream	<0.1	<0.1	2.8	0.03	0.1	1.2	62.16	8.22	2.51	2.30	6.80	0.90	1.64	0.49	0.21	0.04	0.007	597	<20	237			
AERSR221065	Stream	0.2	0.1	1.3	0.05	0.2	0.8	59.67	10.55	3.13	2.21	6.69	1.12	1.69	0.52	0.20	0.06	0.008	704	24	156			
AERSR221066	Stream	0.1	0.1	1.1	0.03	0.2	1.8	45.45	7.27	2.35	3.12	15.87	0.38	1.52	0.38	0.17	0.04	0.006	507	<20	231			
AERSR221067	Stream	0.2	0.2	2.7	0.04	0.2	<0.5	57.02	11.44	3.66	2.30	6.94	0.93	1.90	0.54	0.19	0.08	0.012	730	30	155			
AERSR221068	Stream	0.1	0.2	2.1	0.05	0.2	1.0	60.42	8.97	2.79	2.68	6.24	0.42	1.78	0.49	0.23	0.05	0.008	584	25	109			
AERSR221069	Stream	0.1	0.1	2.4	0.06	0.2	0.7	56.03	9.60	3.09	3.04	9.46	0.68	1.82	0.52	0.17	0.06	0.009	669	26	198			
AERSR221070	Stream	0.2	<0.1	0.8	0.03	0.2	1.0	55.61	10.38	3.50	2.87	9.11	0.73	1.89	0.51	0.16	0.06	0.010	681	29	220			
AERSR221071	Stream	0.1	<0.1	1.9	0.03	0.1	1.2	57.42	8.50	2.57	2.02	8.84	0.57	1.56	0.47	0.21	0.03	0.007	641	<20	188			
AERSR221072	Rock Pulp	0.1	0.1	39.4	0.02	<0.1	<0.5	71.77	12.12	4.00	1.72	3.34	3.46	1.43	0.38	0.13	0.06	0.015	467	94	399			
AERSR221073	Stream	0.2	0.1	<0.5	0.06	0.1	0.7	62.40	12.67	4.32	1.65	3.58	0.75	2.19	0.66	0.24	0.05	0.010	848	35	166			
AERSR221074	Stream	0.2	0.1	<0.5	0.05	0.1	0.8	63.23	9.45	2.88	3.16	5.58	0.75	2.14	0.58	0.20	0.05	0.008	987	<20	105			
AERSR221075	Stream	0.2	0.1	<0.5	0.06	0.2	0.9	62.05	10.53	3.14	2.96	4.86	0.66	2.30	0.57	0.20	0.07	0.009	961	26	102			
AERSR221076	Stream	0.3	0.1	<0.5	0.06	0.2	<0.5	63.15	14.24	4.01	2.51	2.83	1.03	2.42	0.64	0.13	0.04	0.009	952	<20	116			
AERSR221077	Stream	0.2	0.1	<0.5	0.04	0.1	1.0	66.47	9.77	2.88	2.29	4.28	0.79	2.12	0.55	0.19	0.04	0.007	936	<20	140			
AERSR221078	Stream	0.1	<0.1	<0.5	0.04	0.2	<0.5	60.68	10.37	3.58	3.25	6.40	0.94	2.10	0.60	0.17	0.09	0.010	808	27	145			
AERSR221079	Stream	0.2	<0.1	<0.5	0.04	0.1	<0.5	60.82	10.21	3.34	4.04	6.15	0.81	2.44	0.60	0.17	0.06	0.010	757	22	114			
AERSR221080	Stream	0.3	0.1	<0.5	0.05	0.4	1.4	50.53	12.78	4.75	2.98	7.80	0.80	2.81	0.59	0.25	0.08	0.011	714	39	208			
AERSR221081	Pulp DUP	0.2	0.3	<0.5	0.09	0.1	0.6	70.89	11.73	3.72	1.01	0.90	0.64	1.92	0.64	0.22	0.04	0.012	958	36	133			
AERSR221082	Stream	0.1	0.1	<0.5	0.03	0.3	0.7	54.11	8.52	2.91	4.34	9.33	0.79	1.99	0.49	0.17	0.09	0.007	596	<20	312			
AERSR221083	Stream	0.2	0.1	<0.5	0.06	0.1	0.9	60.75	12.67	4.43	1.51	3.84	1.15	1.80	0.64	0.21	0.10	0.012	793	36	170			
AERSR221084	Stream	0.1	0.2	<0.5	0.05	0.1	0.7	69.21	10.54	3.65	1.07	1.60	0.69	1.78	0.61	0.23	0.05	0.013	1027	29	116			
AERSR221085	Stream	0.2	0.1	<0.5	0.05	0.1	0.8	63.37	12.19	3.53	1.91	3.82	1.02	1.83	0.59	0.16	0.06	0.012	794	30	152			
AERSR221086	Stream	0.1	0.2	<0.5	0.06	0.2	0.7	68.29	9.94	2.98	1.24	2.27	0.87	1.77	0.58	0.19	0.06	0.009	836	23	217			
AERSR221087	Stream	0.1	0.2	1.5	0.05	0.2	0.9	66.15	10.08	3.08	1.72	3.46	0.85	1.97	0.59	0.19	0.06	0.010	802	29	243			
AERSR221088	Stream	<0.1	0.1	1.0	0.05	0.3	1.8	57.93	7.02	2.13	3.00	6.71	0.33	1.49	0.51	0.25	0.10	0.008	442	27	117			
AERSR221089	Stream	0.2	0.2	<0.5	0.10	0.2	0.8	67.96	12.96	3.95	1.35	1.47	0.99	2.06	0.69	0.20	0.07	0.015	964	34	146			
AERSR221090	Rock Pulp	0.1	0.1	39.9	0.03	<0.1	<0.5	72.04	12.04	4.04	1.72	3.30	3.48	1.47	0.39	0.14	0.07	0.016	497	96	405			



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Method Analyte Unit MDL		LF300	LF300	LF300	LF300	LF300	LF300	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Zr	Y	Nb	Sc	LOI	Sum	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr
		ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm
		5	3	5	1	-5.1	0.01	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5
AERSR221061	Pulp DUP	369	26	15	9	12.4	99.91	0.65	19.33	12.63	80.6	120	18.5	8.6	492	1.51	5.9	0.7	1.0	3.6	43.0
AERSR221062	Stream	447	23	10	8	14.6	99.91	0.62	15.58	9.82	67.3	111	19.7	7.0	444	1.61	4.2	0.6	0.8	3.1	167.5
AERSR221063	Stream	322	22	12	9	15.5	99.91	0.81	19.26	11.39	71.0	110	23.5	8.2	498	1.83	5.9	1.0	3.5	4.2	221.5
AERSR221064	Stream	607	23	14	6	14.4	99.91	0.54	10.70	6.66	55.2	60	13.1	4.8	309	1.26	2.9	0.6	0.7	2.5	149.0
AERSR221065	Stream	387	23	11	8	13.9	99.92	0.56	18.63	11.09	75.3	126	20.6	7.5	482	1.69	4.8	0.6	1.5	3.0	73.4
AERSR221066	Stream	293	18	7	6	23.2	99.92	0.41	11.65	8.97	56.9	91	13.4	4.8	285	1.22	2.7	0.6	0.6	2.0	186.5
AERSR221067	Stream	318	23	10	10	14.7	99.91	0.85	21.30	12.65	77.9	138	23.7	8.7	591	1.89	5.3	0.6	1.4	3.2	89.7
AERSR221068	Stream	451	24	12	8	15.7	99.91	0.68	17.11	10.33	81.4	139	20.4	6.6	330	1.44	5.1	0.6	0.8	2.5	67.1
AERSR221069	Stream	422	23	9	8	15.3	99.92	0.82	14.46	9.14	57.7	84	19.9	6.8	425	1.50	4.5	0.9	0.8	4.1	124.2
AERSR221070	Stream	315	21	9	9	14.9	99.91	0.90	17.08	10.27	63.3	92	22.2	7.5	401	1.67	5.3	0.9	1.3	4.5	144.0
AERSR221071	Stream	470	21	8	7	17.6	99.92	0.71	13.16	8.55	69.5	83	16.6	5.7	227	1.31	2.6	0.9	0.8	2.3	130.0
AERSR221072	Rock Pulp	167	10	13	9	1.3	99.87	11.85	152.44	256.08	207.5	107	77.0	48.5	272	1.59	9.2	0.4	35.9	2.9	32.3
AERSR221073	Stream	427	27	28	11	11.2	99.92	1.42	24.19	14.26	86.9	139	29.5	10.7	372	2.26	8.2	0.6	0.5	4.6	90.1
AERSR221074	Stream	522	27	19	8	11.7	99.91	0.62	16.17	11.84	64.4	108	16.1	6.8	330	1.40	6.1	0.7	0.7	4.1	46.0
AERSR221075	Stream	361	25	18	10	12.4	99.90	0.66	19.65	14.69	77.9	126	19.2	9.0	493	1.51	6.5	0.8	1.0	4.2	43.9
AERSR221076	Stream	347	28	20	12	8.7	99.90	0.48	17.60	17.44	69.0	141	16.9	8.1	286	1.77	4.8	0.8	1.3	5.4	48.0
AERSR221077	Stream	439	26	22	8	10.3	99.91	0.67	13.81	11.52	64.6	120	15.4	6.1	302	1.46	6.3	0.8	0.6	4.0	49.8
AERSR221078	Stream	453	27	16	9	11.5	99.91	0.50	14.17	12.29	53.1	76	18.5	8.5	653	1.72	7.7	1.0	0.5	5.1	49.2
AERSR221079	Stream	535	28	17	9	11.1	99.88	0.79	14.78	14.43	58.2	86	17.5	7.3	376	1.67	8.8	0.9	0.4	5.4	38.6
AERSR221080	Stream	239	24	16	12	16.4	99.89	3.32	34.50	14.67	166.7	119	37.6	12.3	613	2.59	8.8	0.7	0.8	4.0	150.2
AERSR221081	Pulp DUP	393	30	19	12	8.0	99.93	1.33	25.10	14.04	98.4	340	28.5	9.5	299	2.04	9.0	1.0	1.0	3.4	56.8
AERSR221082	Stream	465	23	22	6	17.0	99.88	0.85	16.86	13.44	56.1	113	13.0	5.1	573	1.36	5.7	0.8	2.4	2.6	94.4
AERSR221083	Stream	277	24	16	12	12.7	99.92	0.70	27.99	11.98	96.9	146	30.9	11.3	744	2.41	5.6	0.5	1.2	2.8	81.3
AERSR221084	Stream	391	25	19	10	10.3	99.92	0.66	18.44	11.74	103.8	191	24.9	9.0	340	2.06	7.1	0.6	1.9	2.7	42.1
AERSR221085	Stream	347	23	21	11	11.3	99.94	0.75	23.16	12.57	80.1	134	26.2	8.9	408	1.84	7.0	0.8	0.4	4.1	60.4
AERSR221086	Stream	500	28	18	8	11.5	99.93	0.84	17.11	12.91	75.3	213	21.5	6.9	424	1.59	4.9	0.9	1.0	2.8	62.1
AERSR221087	Stream	523	27	22	9	11.6	99.92	0.85	19.91	12.72	71.0	193	19.8	6.4	399	1.55	4.9	0.9	1.6	2.9	60.1
AERSR221088	Stream	597	24	15	7	20.3	99.92	1.47	11.94	9.55	70.1	102	22.0	5.2	697	1.09	2.7	0.9	0.4	1.7	54.1
AERSR221089	Stream	415	28	15	13	8.0	99.93	1.19	31.95	13.28	100.5	275	29.2	9.6	484	2.07	6.7	0.9	2.3	3.6	53.3
AERSR221090	Rock Pulp	156	12	20	9	1.0	99.85	12.58	150.49	277.10	209.2	119	77.7	50.2	279	1.60	10.5	0.5	38.4	3.5	35.9



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	Method	Analyte	Unit	MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251			
					Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg
					ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb
					0.01	0.02	0.02	1	0.01	0.001	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5
AERSR221061	Pulp DUP	0.41	0.41	0.21	20	3.11	0.072	10.4	12.0	1.35	462.3	0.003	6	1.02	0.008	0.18	<0.1	3.4	0.16	0.17	41			
AERSR221062	Stream	0.42	0.29	0.15	26	5.50	0.073	12.0	15.3	1.26	344.8	0.004	4	1.28	0.022	0.23	<0.1	3.1	0.15	0.04	21			
AERSR221063	Stream	0.38	0.43	0.16	30	6.31	0.064	13.7	18.2	1.20	293.3	0.008	7	1.31	0.026	0.23	<0.1	3.8	0.20	0.17	28			
AERSR221064	Stream	0.28	0.24	0.10	20	4.33	0.083	10.1	11.0	1.14	211.2	0.004	5	0.91	0.044	0.20	<0.1	2.2	0.12	0.21	18			
AERSR221065	Stream	0.45	0.31	0.17	26	4.33	0.076	9.9	14.4	1.05	340.2	0.003	5	1.25	0.008	0.21	<0.1	3.3	0.16	0.07	38			
AERSR221066	Stream	0.44	0.26	0.13	20	10.08	0.068	9.8	11.1	1.63	230.4	0.003	4	0.94	0.011	0.16	<0.1	2.1	0.14	0.07	26			
AERSR221067	Stream	0.50	0.38	0.21	26	4.69	0.072	9.5	15.6	1.02	399.3	0.002	4	1.33	0.009	0.20	<0.1	3.7	0.16	0.07	49			
AERSR221068	Stream	0.74	0.44	0.15	27	4.18	0.094	13.8	14.2	1.30	255.7	0.002	4	1.09	0.008	0.16	<0.1	2.7	0.19	0.04	30			
AERSR221069	Stream	0.36	0.31	0.14	26	5.78	0.067	14.6	17.6	1.50	281.2	0.005	4	1.11	0.015	0.18	<0.1	3.1	0.17	0.04	22			
AERSR221070	Stream	0.33	0.31	0.16	28	5.88	0.064	14.5	20.3	1.39	265.6	0.005	5	1.20	0.015	0.20	<0.1	3.5	0.18	0.07	29			
AERSR221071	Stream	0.43	0.27	0.13	23	5.81	0.081	10.3	14.0	0.94	293.0	0.002	4	1.08	0.008	0.16	<0.1	2.5	0.12	0.10	26			
AERSR221072	Rock Pulp	0.48	0.19	0.14	24	0.58	0.053	23.2	29.9	0.48	58.1	0.067	1	0.82	0.093	0.12	<0.1	2.8	0.08	0.04	17			
AERSR221073	Stream	0.43	0.25	0.25	22	2.35	0.088	9.5	14.7	0.59	503.6	0.002	6	1.13	0.011	0.19	<0.1	4.8	0.14	0.08	67			
AERSR221074	Stream	0.38	0.25	0.20	16	3.66	0.077	11.0	10.9	1.48	533.3	0.004	5	0.88	0.007	0.16	<0.1	3.2	0.14	0.19	33			
AERSR221075	Stream	0.51	0.30	0.23	19	3.14	0.069	11.5	12.5	1.33	493.5	0.003	8	1.00	0.007	0.18	<0.1	3.8	0.17	0.18	43			
AERSR221076	Stream	0.36	0.20	0.30	18	1.78	0.047	17.9	12.7	0.99	469.2	0.003	3	1.28	0.010	0.21	<0.1	4.9	0.18	0.12	39			
AERSR221077	Stream	0.31	0.23	0.18	20	2.78	0.073	13.3	12.0	1.04	433.2	0.004	5	0.91	0.008	0.15	<0.1	2.9	0.16	0.17	43			
AERSR221078	Stream	0.29	0.28	0.18	24	4.09	0.065	19.0	16.8	1.56	360.4	0.010	5	1.15	0.009	0.17	<0.1	3.7	0.16	0.07	36			
AERSR221079	Stream	0.30	0.37	0.24	22	3.96	0.064	16.6	16.5	1.96	282.9	0.008	8	1.07	0.008	0.18	<0.1	3.3	0.14	0.17	36			
AERSR221080	Stream	0.90	0.27	0.30	21	5.13	0.098	7.0	17.2	1.25	326.3	0.001	10	1.21	0.009	0.26	<0.1	6.4	0.35	0.11	50			
AERSR221081	Pulp DUP	0.82	0.35	0.19	29	0.54	0.074	10.0	18.4	0.34	471.5	0.004	3	1.19	0.008	0.14	<0.1	4.6	0.16	0.08	105			
AERSR221082	Stream	0.40	0.31	0.15	33	5.78	0.061	17.1	9.4	2.26	183.2	0.018	3	0.91	0.035	0.13	<0.1	2.3	0.29	0.04	34			
AERSR221083	Stream	0.81	0.31	0.18	36	2.39	0.078	13.1	24.3	0.61	369.4	0.005	3	1.63	0.008	0.16	<0.1	4.9	0.13	0.05	60			
AERSR221084	Stream	0.50	0.26	0.15	25	1.02	0.088	7.4	15.9	0.40	467.6	0.003	4	1.00	0.006	0.12	<0.1	3.5	0.12	0.12	60			
AERSR221085	Stream	0.42	0.24	0.19	24	2.47	0.065	11.8	16.6	0.82	371.5	0.002	3	1.11	0.009	0.15	<0.1	4.3	0.13	0.09	52			
AERSR221086	Stream	0.59	0.36	0.15	33	1.41	0.075	13.6	14.6	0.52	361.6	0.010	5	1.07	0.009	0.13	<0.1	3.5	0.17	0.05	64			
AERSR221087	Stream	0.72	0.38	0.16	33	2.15	0.068	14.7	13.8	0.76	306.2	0.010	4	1.06	0.015	0.14	<0.1	3.4	0.17	0.05	54			
AERSR221088	Stream	0.88	0.30	0.11	23	4.37	0.103	9.0	16.7	1.44	250.7	0.004	8	0.83	0.008	0.19	<0.1	2.5	0.31	0.07	41			
AERSR221089	Stream	1.34	0.41	0.19	30	0.86	0.072	14.2	17.6	0.53	372.4	0.004	2	1.37	0.007	0.14	<0.1	5.3	0.14	0.07	95			
AERSR221090	Rock Pulp	0.56	0.19	0.15	25	0.62	0.050	26.1	33.9	0.50	64.5	0.078	2	0.87	0.108	0.12	<0.1	3.6	0.08	0.04	17			



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					Se	Te	Ga	Cs	Ge	Hf	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pr	Nd	Sm	
					ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm
					0.1	0.02	0.1	0.02	0.1	0.02	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	0.02	0.02	0.02	0.02
AERSR221061	Pulp DUP	0.8	0.05	3.0	1.48	<0.1	0.06	0.14	13.0	0.4	<0.05	2.1	11.87	23.8	0.03	2	0.6	19.2	3.08	13.20	3.13				
AERSR221062	Stream	0.7	0.04	3.5	0.89	<0.1	0.10	0.22	12.5	1.1	<0.05	2.9	9.99	26.1	0.02	1	0.7	13.1	3.26	13.65	2.91				
AERSR221063	Stream	1.2	0.06	3.8	1.43	<0.1	0.10	0.32	15.1	1.0	<0.05	5.0	10.31	27.1	0.03	2	0.7	13.4	3.56	13.51	2.88				
AERSR221064	Stream	1.0	0.03	2.6	0.66	<0.1	0.09	0.26	9.8	0.4	<0.05	2.9	8.43	21.1	<0.02	3	0.5	9.0	2.63	10.95	2.32				
AERSR221065	Stream	0.7	0.04	3.5	0.86	<0.1	0.10	0.22	12.3	0.5	<0.05	2.8	9.93	21.7	0.02	<1	0.6	12.8	2.80	12.20	2.85				
AERSR221066	Stream	1.4	0.03	2.6	0.63	<0.1	0.11	0.16	10.4	0.7	<0.05	2.9	8.28	20.0	<0.02	<1	0.5	8.9	2.54	10.40	2.19				
AERSR221067	Stream	0.8	0.05	3.8	0.90	<0.1	0.10	0.20	12.3	0.6	<0.05	2.7	10.23	21.2	0.03	2	0.7	14.8	2.87	12.51	3.01				
AERSR221068	Stream	0.9	0.04	3.2	0.71	<0.1	0.15	0.16	12.1	0.6	<0.05	4.1	11.58	28.8	0.02	<1	0.6	10.7	3.58	14.70	3.06				
AERSR221069	Stream	0.7	0.03	3.2	1.01	<0.1	0.10	0.21	13.7	1.1	<0.05	4.3	10.67	30.1	0.02	1	0.6	10.8	3.70	14.89	3.02				
AERSR221070	Stream	0.7	0.04	3.6	1.07	<0.1	0.11	0.21	15.4	1.5	<0.05	5.4	10.83	29.8	0.03	2	0.6	12.3	3.59	14.61	3.00				
AERSR221071	Stream	1.2	0.03	3.0	0.56	<0.1	0.14	0.19	10.8	0.8	<0.05	4.1	9.37	21.6	<0.02	2	0.6	9.7	2.71	11.39	2.45				
AERSR221072	Rock Pulp	0.1	<0.02	2.6	1.06	<0.1	0.16	0.40	7.0	2.2	<0.05	5.6	5.37	40.6	0.04	<1	0.2	8.5	4.89	16.51	2.45				
AERSR221073	Stream	0.6	0.04	3.2	1.00	<0.1	0.09	0.16	12.3	0.8	<0.05	2.8	11.57	21.8	0.04	4	0.8	17.8	3.12	14.07	3.62				
AERSR221074	Stream	0.7	0.03	2.8	1.25	<0.1	0.07	0.17	11.3	0.4	<0.05	2.3	10.76	24.8	0.02	1	0.9	17.1	3.61	14.77	3.20				
AERSR221075	Stream	0.6	0.05	3.2	1.47	<0.1	0.07	0.19	13.1	0.5	<0.05	2.6	11.76	26.4	0.03	2	0.6	20.9	3.72	14.73	3.50				
AERSR221076	Stream	0.3	0.04	4.2	2.54	<0.1	0.09	0.04	17.7	0.9	<0.05	1.7	8.70	38.9	0.04	1	1.4	17.9	5.52	21.89	4.57				
AERSR221077	Stream	0.7	0.03	3.0	1.18	<0.1	0.06	0.22	11.6	0.8	<0.05	2.2	9.73	27.8	0.03	2	0.5	14.8	3.71	15.44	3.41				
AERSR221078	Stream	0.2	0.03	3.9	1.24	<0.1	0.13	0.23	13.3	0.8	<0.05	5.5	11.21	38.7	0.03	<1	0.6	20.4	5.00	18.82	3.71				
AERSR221079	Stream	0.5	0.02	3.6	1.38	<0.1	0.13	0.12	13.0	0.7	<0.05	5.4	11.00	35.4	0.03	1	0.6	28.6	4.62	18.45	3.66				
AERSR221080	Stream	1.4	0.07	3.0	1.31	<0.1	0.08	0.10	15.5	0.7	<0.05	2.0	12.17	17.0	0.06	4	0.9	21.7	2.61	12.13	3.72				
AERSR221081	Pulp DUP	0.9	0.05	3.6	1.44	<0.1	0.04	0.16	12.5	0.5	<0.05	1.6	13.84	21.1	0.03	3	1.0	19.7	3.11	13.73	3.68				
AERSR221082	Stream	0.7	0.03	3.1	1.70	<0.1	0.08	1.51	11.6	0.7	<0.05	3.9	9.71	33.1	0.02	<1	1.1	11.0	4.34	16.52	3.15				
AERSR221083	Stream	1.0	0.03	5.0	0.95	<0.1	0.10	0.25	11.3	0.7	<0.05	2.5	10.63	27.2	0.03	<1	0.9	21.5	3.80	15.33	3.25				
AERSR221084	Stream	0.9	0.03	2.9	1.15	<0.1	0.06	0.17	9.9	0.7	<0.05	2.2	9.77	16.4	0.04	3	0.5	16.4	2.45	10.38	2.86				
AERSR221085	Stream	0.5	0.04	3.7	1.12	<0.1	0.11	0.12	11.3	0.7	<0.05	2.6	9.74	25.1	0.03	2	0.6	15.3	3.56	14.18	3.29				
AERSR221086	Stream	0.8	0.03	3.3	1.06	<0.1	0.07	1.10	11.3	1.1	<0.05	4.0	12.78	27.3	0.02	4	0.7	14.1	3.85	16.01	3.67				
AERSR221087	Stream	0.7	0.03	3.3	1.23	<0.1	0.06	1.24	11.5	0.4	<0.05	3.1	12.48	28.8	0.03	3	0.9	12.9	4.04	15.68	3.64				
AERSR221088	Stream	1.6	0.02	2.2	0.53	<0.1	0.05	0.22	11.4	1.6	<0.05	2.1	10.24	17.6	0.02	6	0.5	14.7	2.65	10.61	2.49				
AERSR221089	Stream	1.0	0.05	3.9	1.59	<0.1	0.04	0.14	11.0	0.5	<0.05	1.9	11.81	28.2	0.03	2	0.7	15.6	3.94	16.48	3.48				
AERSR221090	Rock Pulp	<0.1	<0.02	3.3	1.21	0.1	0.18	0.36	7.6	2.7	<0.05	5.9	5.85	43.7	0.03	<1	0.2	10.1	5.47	17.91	2.76				



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Method Analyte Unit MDL		AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Pd	Pt
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb
		0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	10	2
AERSR221061	Pulp DUP	0.63	3.03	0.40	2.24	0.37	0.94	0.11	0.65	0.09	<10	<2
AERSR221062	Stream	0.59	2.61	0.33	1.84	0.31	0.78	0.09	0.56	0.07	<10	<2
AERSR221063	Stream	0.58	2.60	0.45	1.89	0.32	0.84	0.09	0.60	0.08	<10	<2
AERSR221064	Stream	0.48	2.14	0.27	1.51	0.26	0.67	0.08	0.48	0.06	<10	<2
AERSR221065	Stream	0.62	2.70	0.34	1.89	0.32	0.78	0.09	0.55	0.07	<10	<2
AERSR221066	Stream	0.44	1.95	0.25	1.39	0.24	0.64	0.08	0.46	0.06	<10	<2
AERSR221067	Stream	0.65	2.78	0.36	1.96	0.32	0.79	0.09	0.53	0.07	<10	<2
AERSR221068	Stream	0.61	2.69	0.35	1.98	0.35	0.89	0.11	0.65	0.09	<10	<2
AERSR221069	Stream	0.58	2.64	0.33	1.92	0.33	0.86	0.11	0.64	0.09	<10	<2
AERSR221070	Stream	0.57	2.66	0.34	1.95	0.35	0.91	0.11	0.69	0.09	<10	<2
AERSR221071	Stream	0.50	2.26	0.29	1.67	0.28	0.73	0.09	0.53	0.07	<10	<2
AERSR221072	Rock Pulp	0.51	1.58	0.18	1.05	0.18	0.50	0.06	0.42	0.06	43	24
AERSR221073	Stream	0.80	3.55	0.50	2.69	0.44	1.04	0.12	0.73	0.08	<10	<2
AERSR221074	Stream	0.73	2.76	0.41	2.25	0.39	0.98	0.11	0.73	0.09	<10	<2
AERSR221075	Stream	0.71	3.64	0.47	2.55	0.45	1.05	0.13	0.77	0.10	<10	<2
AERSR221076	Stream	0.79	3.54	0.47	2.10	0.36	0.76	0.10	0.66	0.08	<10	<2
AERSR221077	Stream	0.67	3.11	0.40	2.21	0.38	0.90	0.10	0.68	0.08	<10	<2
AERSR221078	Stream	0.68	3.31	0.42	2.49	0.43	1.03	0.15	0.87	0.12	<10	<2
AERSR221079	Stream	0.65	3.21	0.43	2.26	0.42	1.14	0.14	0.84	0.11	<10	<2
AERSR221080	Stream	0.84	3.84	0.49	2.46	0.44	1.02	0.13	0.81	0.10	<10	<2
AERSR221081	Pulp DUP	0.85	4.00	0.54	2.97	0.50	1.17	0.15	0.89	0.11	<10	<2
AERSR221082	Stream	0.71	2.68	0.35	2.06	0.36	0.84	0.11	0.70	0.10	<10	<2
AERSR221083	Stream	0.80	3.14	0.43	2.28	0.39	0.92	0.12	0.73	0.08	<10	<2
AERSR221084	Stream	0.59	3.03	0.40	2.14	0.35	0.85	0.10	0.65	0.07	<10	<2
AERSR221085	Stream	0.72	2.99	0.42	2.25	0.37	0.84	0.10	0.70	0.08	<10	<2
AERSR221086	Stream	0.85	3.63	0.48	2.71	0.47	1.08	0.13	0.85	0.11	<10	<2
AERSR221087	Stream	0.80	3.68	0.45	2.60	0.45	1.16	0.14	0.80	0.10	<10	<2
AERSR221088	Stream	0.54	2.24	0.31	1.82	0.33	0.85	0.10	0.71	0.08	<10	<2
AERSR221089	Stream	0.86	3.53	0.47	2.54	0.40	1.09	0.12	0.81	0.10	<10	<2
AERSR221090	Rock Pulp	0.60	1.78	0.22	1.19	0.22	0.57	0.07	0.51	0.07	46	29



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	Method Analyte Unit MDL	WGHT	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100
		Wgt	Ba	Be	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	La	Ce
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	1	1	0.2	0.1	0.5	0.1	0.1	0.1	1	0.5	0.1	0.2	0.1	8	0.5	0.1	0.1	0.1	0.1
AERSR221091	Stream	2.44	945	<1	9.1	5.3	14.1	10.3	11.5	80.1	2	139.6	0.7	9.3	3.9	137	1.3	427.4	28.5	32.1	61.5
AERSR221092	Stream	2.39	968	<1	9.8	6.1	14.4	10.2	11.7	85.1	1	143.7	1.0	10.1	4.1	145	1.6	418.6	31.8	33.9	62.5
AERSR221093	Stream	2.68	733	<1	7.0	3.4	10.1	17.0	10.4	65.8	<1	112.2	0.7	9.1	3.9	99	1.2	668.8	26.6	33.7	59.5
AERSR221094	Stream	2.29	764	<1	8.7	4.7	11.7	13.8	10.9	72.8	1	118.6	0.7	9.2	4.0	116	1.2	558.1	27.4	33.2	60.2
AERSR221095	Stream	2.65	690	4	7.5	5.0	10.7	8.9	9.6	69.1	1	157.6	0.7	7.8	4.1	112	1.1	368.6	23.5	26.1	46.6
AERSR221096	Stream	2.22	512	6	9.7	5.6	11.4	8.7	14.5	80.4	1	200.5	0.9	8.3	3.8	101	1.3	342.0	24.8	32.2	56.1
AERSR221097	Stream	2.21	671	<1	7.5	3.5	11.2	17.0	10.3	62.0	1	136.3	0.7	8.1	3.8	110	1.0	708.8	26.7	29.1	52.4
AERSR221098	Stream	2.22	1022	1	10.6	6.3	15.3	9.5	12.2	97.8	1	135.6	0.8	9.9	4.5	163	1.7	367.5	29.8	33.8	61.5
AERSR221099	Stream	2.42	1070	<1	11.2	6.0	17.0	10.9	13.1	97.1	1	123.9	1.0	10.2	4.6	158	1.4	432.7	28.9	36.8	66.8
AERSR221100	Stream	2.09	977	3	6.2	5.2	12.0	13.3	12.2	84.9	1	102.3	0.7	9.9	4.5	161	1.7	527.9	27.6	34.7	62.0
AERSR221101	Pulp DUP		1096	<1	10.0	5.8	14.5	9.8	11.5	87.2	1	136.1	0.8	9.3	4.0	159	1.3	384.9	26.9	31.7	60.3
AERSR221102	Stream	2.07	1091	3	9.8	5.8	13.4	9.1	11.2	91.5	1	119.6	0.7	9.9	3.8	147	3.5	366.9	27.1	32.7	61.1
AERSR221103	Stream	2.54	971	3	10.5	4.9	13.1	7.5	9.5	79.4	2	142.1	0.8	9.0	3.3	123	1.5	296.2	25.3	29.1	54.9
AERSR221104	Stream	3.02	783	1	9.3	6.0	14.0	8.1	10.4	80.6	10	129.9	0.6	9.4	3.4	129	1.1	328.2	27.6	31.4	56.3
AERSR221105	Stream	2.53	763	1	8.6	4.9	12.8	9.2	11.1	77.2	1	121.0	0.7	8.8	3.7	113	1.1	374.9	25.2	29.8	57.0
AERSR221106	Stream	2.78	267	<1	4.2	1.5	4.8	9.1	6.2	32.3	<1	152.3	0.5	4.2	2.2	39	1.1	346.6	14.5	16.4	30.9
AERSR221107	Stream	2.42	1037	<1	9.6	5.4	14.0	8.7	11.3	84.6	1	127.5	0.8	9.0	3.6	159	1.3	354.0	24.8	32.0	58.9
AERSR221108	Stream	2.68	1038	3	10.6	5.8	13.1	8.9	11.9	85.2	1	126.9	0.9	9.4	4.2	152	5.7	362.6	28.7	32.7	59.8
AERSR221109	Stream	2.86	958	3	10.4	5.7	14.8	8.3	12.8	88.4	2	127.2	0.9	9.4	3.9	178	1.2	308.7	26.0	32.4	61.1
AERSR221110	Stream	2.60	881	<1	10.6	4.7	14.0	7.7	11.7	82.1	1	116.0	1.0	8.8	4.0	164	0.9	299.4	23.7	30.7	56.1
AERSR221111	Stream	2.35	512	2	6.1	2.7	8.4	7.7	7.8	50.6	<1	143.7	0.6	6.1	2.5	88	0.7	318.3	17.3	22.0	38.1
AERSR221112	Stream	2.56	820	<1	8.1	5.0	13.0	9.3	11.8	84.5	2	105.6	0.8	9.1	3.7	155	1.3	376.9	24.5	30.6	58.0
AERSR221113	Stream	2.28	794	2	8.6	4.3	13.6	6.0	10.0	73.2	1	127.7	0.7	7.9	3.0	132	1.1	251.2	20.9	28.4	50.8
AERSR221114	Stream	2.71	733	2	8.4	3.9	11.8	10.7	11.9	67.8	1	122.6	0.8	8.0	3.3	125	1.1	410.0	26.7	27.7	51.5
AERSR221115	Rock Pulp	0.06	448	<1	50.5	1.7	12.6	4.2	17.0	37.2	7	404.4	0.4	3.9	0.8	62	<0.5	162.0	10.7	30.5	56.6
AERSR221116	Stream	2.90	869	5	12.1	5.2	16.3	6.5	10.9	89.5	1	122.3	0.8	8.4	3.3	139	1.5	262.5	22.5	28.8	53.9
AERSR221117	Stream	2.17	84	<1	1.9	0.9	2.4	5.8	2.8	21.7	<1	127.7	0.1	2.6	1.8	42	<0.5	251.2	9.1	10.5	18.2
AERSR221118	Stream	2.22	479	<1	5.7	1.7	7.4	7.9	5.9	38.9	<1	173.5	0.4	5.1	2.1	51	0.7	314.6	15.7	18.1	33.9



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Method Analyte Unit MDL		LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Mo	Cu	Pb	Zn	Ni	As	Cd	Sb
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.3	0.05	0.02	0.05	0.01	0.05	0.02	0.03	0.01	0.05	0.01	0.1	0.1	0.1	1	0.1	0.5	0.1	0.1
AERSR221091	Stream	7.45	28.7	5.80	1.28	5.38	0.84	5.00	1.05	3.00	0.43	2.99	0.47	1.1	23.3	13.0	98	26.2	7.5	0.7	0.3
AERSR221092	Stream	7.61	29.0	5.99	1.27	5.88	0.87	5.13	1.05	3.28	0.45	3.04	0.47	1.2	24.5	13.4	103	28.5	7.8	0.7	0.2
AERSR221093	Stream	7.27	26.9	4.76	0.95	4.62	0.70	4.27	0.91	2.85	0.42	2.77	0.46	0.6	12.0	9.0	74	18.5	4.2	0.5	0.2
AERSR221094	Stream	7.28	27.4	4.86	1.08	4.88	0.75	4.57	0.96	2.91	0.42	3.01	0.46	0.8	17.3	11.4	84	27.0	5.9	0.6	0.2
AERSR221095	Stream	5.74	21.0	3.97	0.87	3.98	0.58	3.59	0.76	2.24	0.34	2.34	0.35	1.3	16.3	10.7	104	20.9	6.3	0.6	0.2
AERSR221096	Stream	6.96	25.1	5.03	1.04	4.75	0.69	4.15	0.88	2.54	0.36	2.45	0.38	1.6	18.6	14.3	97	29.6	7.0	0.8	0.3
AERSR221097	Stream	6.38	24.5	4.98	1.10	4.57	0.70	4.42	0.93	3.00	0.44	2.97	0.48	1.2	15.9	8.6	79	22.5	4.8	0.6	0.3
AERSR221098	Stream	7.54	28.8	5.62	1.23	5.13	0.77	4.96	0.95	3.13	0.44	3.07	0.46	1.0	22.7	13.8	109	30.0	6.1	0.7	0.2
AERSR221099	Stream	8.10	30.1	6.06	1.27	5.32	0.83	5.14	1.04	3.25	0.46	3.12	0.51	1.4	25.2	13.4	99	30.3	8.8	0.6	0.2
AERSR221100	Stream	7.28	28.4	5.37	1.05	4.90	0.72	4.50	0.95	2.89	0.41	2.92	0.45	1.2	16.2	11.4	85	22.3	10.3	0.7	0.6
AERSR221101	Pulp DUP	6.96	26.7	5.27	1.09	4.97	0.73	4.68	0.93	2.87	0.39	3.01	0.45	1.3	22.7	12.2	102	29.7	8.0	0.5	0.2
AERSR221102	Stream	7.32	27.9	5.41	1.13	4.88	0.74	4.62	0.96	2.88	0.38	2.60	0.40	1.2	19.9	14.2	100	29.2	7.7	0.4	0.2
AERSR221103	Stream	6.56	25.3	5.11	1.07	4.50	0.66	4.29	0.93	2.50	0.39	2.63	0.37	0.6	21.4	11.7	85	26.6	6.2	0.4	0.1
AERSR221104	Stream	6.97	26.1	5.25	1.11	5.00	0.73	4.36	0.94	2.80	0.41	2.62	0.44	0.7	22.6	12.0	98	28.4	4.8	1.0	0.3
AERSR221105	Stream	6.94	27.2	5.23	1.07	4.76	0.72	4.41	0.95	2.78	0.39	2.66	0.44	1.3	20.1	11.8	94	28.3	6.8	0.7	0.3
AERSR221106	Stream	3.56	13.8	2.72	0.55	2.50	0.37	2.24	0.48	1.50	0.21	1.48	0.22	0.8	6.6	5.5	38	11.5	4.2	0.2	0.2
AERSR221107	Stream	7.05	26.6	4.89	1.08	4.82	0.69	4.39	0.85	2.88	0.40	2.70	0.43	1.2	21.7	11.6	95	28.2	7.4	0.5	0.2
AERSR221108	Stream	7.31	27.6	5.27	1.15	4.86	0.77	4.70	1.00	3.01	0.43	3.00	0.47	1.1	22.7	11.6	97	28.9	7.4	0.5	0.2
AERSR221109	Stream	7.22	28.5	5.50	1.19	5.14	0.72	4.43	0.88	2.68	0.40	2.62	0.41	1.5	22.1	11.9	104	31.7	8.9	0.4	0.3
AERSR221110	Stream	6.62	25.2	4.65	0.94	4.30	0.62	3.86	0.77	2.43	0.35	2.39	0.34	1.7	22.8	13.1	101	32.5	8.9	0.3	0.3
AERSR221111	Stream	4.72	18.3	3.23	0.75	3.28	0.48	3.04	0.59	1.83	0.25	1.91	0.29	0.6	14.2	8.3	58	18.1	4.4	0.5	0.2
AERSR221112	Stream	6.77	25.9	4.62	0.99	4.49	0.67	4.35	0.85	2.60	0.37	2.56	0.38	0.9	15.9	11.4	78	23.6	6.5	0.4	0.2
AERSR221113	Stream	6.08	23.7	4.15	0.88	3.70	0.58	3.55	0.72	2.09	0.34	2.20	0.33	0.7	17.4	10.0	75	27.4	5.0	0.3	0.2
AERSR221114	Stream	6.17	22.6	4.61	0.96	4.60	0.69	4.55	0.84	2.52	0.39	2.60	0.39	1.0	20.2	10.9	84	24.7	5.9	0.9	0.4
AERSR221115	Rock Pulp	6.59	22.5	3.97	1.00	2.93	0.38	2.02	0.40	1.16	0.15	1.09	0.17	12.7	157.5	303.4	216	76.8	10.3	0.6	0.1
AERSR221116	Stream	6.31	23.8	4.63	1.10	4.51	0.67	3.88	0.74	2.58	0.34	2.33	0.36	0.5	30.2	12.1	82	29.8	7.0	0.4	0.2
AERSR221117	Stream	2.23	8.6	1.52	0.32	1.62	0.24	1.51	0.31	0.94	0.15	0.95	0.15	1.9	3.2	4.4	29	7.7	2.4	0.3	0.3
AERSR221118	Stream	4.10	15.3	3.12	0.66	2.68	0.42	2.56	0.50	1.53	0.23	1.63	0.24	0.4	8.7	6.1	52	13.2	4.4	0.3	0.2



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CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300
		Bi	Ag	Au	Hg	Tl	Se	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr
		ppm	ppm	ppb	ppm	ppm	ppm	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm
		0.1	0.1	0.5	0.01	0.1	0.5	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2
AERSR221091	Stream	0.1	0.3	1.1	0.11	0.1	0.8	72.05	11.48	3.59	0.98	0.79	0.67	1.86	0.64	0.20	0.04	0.013	948	33	130
AERSR221092	Stream	0.1	0.3	<0.5	0.11	0.1	1.0	70.90	11.70	3.75	1.02	0.87	0.64	1.90	0.64	0.21	0.04	0.013	983	38	132
AERSR221093	Stream	<0.1	0.2	<0.5	0.07	0.1	1.3	65.93	8.28	2.36	2.36	4.98	0.51	1.54	0.55	0.21	0.03	0.011	744	30	100
AERSR221094	Stream	0.1	0.2	<0.5	0.06	0.2	0.9	68.67	10.31	3.25	1.46	2.60	0.69	1.75	0.59	0.20	0.07	0.012	774	30	108
AERSR221095	Stream	0.1	0.2	<0.5	0.05	0.2	1.3	51.06	9.24	2.85	3.30	11.48	0.47	1.73	0.51	0.18	0.04	0.011	676	31	147
AERSR221096	Stream	0.2	0.3	<0.5	0.08	0.2	1.2	51.19	9.33	3.32	3.11	9.97	0.33	2.35	0.58	0.32	0.06	0.011	512	41	183
AERSR221097	Stream	0.1	0.2	<0.5	0.03	0.1	0.7	62.44	8.99	3.05	2.51	6.64	0.57	1.74	0.56	0.26	0.06	0.011	645	28	129
AERSR221098	Stream	0.2	0.3	<0.5	0.09	0.2	1.1	65.54	12.67	3.72	1.34	1.36	0.71	2.22	0.66	0.21	0.07	0.013	1007	41	124
AERSR221099	Stream	0.2	0.2	<0.5	0.06	0.1	1.1	67.32	13.01	4.30	1.41	1.28	0.72	2.23	0.71	0.21	0.05	0.016	1056	46	116
AERSR221100	Stream	0.4	0.2	21.9	0.10	<0.1	<0.5	74.89	10.00	3.04	1.32	1.50	0.52	1.92	0.64	0.21	0.02	0.014	990	30	95
AERSR221101	Pulp DUP	0.1	0.2	<0.5	0.07	0.2	0.6	68.36	11.89	3.73	1.52	1.84	0.81	2.03	0.65	0.20	0.06	0.013	1100	33	121
AERSR221102	Stream	0.2	0.2	<0.5	0.09	0.2	0.7	66.16	11.58	3.56	1.37	1.58	0.66	2.06	0.62	0.20	0.06	0.014	1140	28	111
AERSR221103	Stream	0.1	0.1	<0.5	0.04	0.2	<0.5	63.84	11.68	3.76	2.05	3.57	0.83	1.92	0.58	0.20	0.07	0.013	972	32	130
AERSR221104	Stream	0.1	0.3	<0.5	0.10	0.1	1.1	58.62	11.66	3.35	1.92	4.48	0.72	2.10	0.61	0.20	0.06	0.013	796	37	122
AERSR221105	Stream	0.1	0.2	<0.5	0.06	0.2	0.9	63.10	10.79	3.32	2.34	3.97	0.67	1.99	0.60	0.21	0.07	0.013	775	35	111
AERSR221106	Stream	<0.1	<0.1	1.1	0.02	<0.1	<0.5	31.61	4.22	1.76	10.00	21.87	0.30	1.05	0.31	0.11	0.03	0.007	274	<20	140
AERSR221107	Stream	0.1	0.2	<0.5	0.06	0.1	1.0	68.95	12.18	3.79	1.42	1.56	0.83	2.07	0.66	0.20	0.06	0.015	1091	34	119
AERSR221108	Stream	0.2	0.2	<0.5	0.06	0.2	0.9	68.18	12.02	3.69	1.52	1.86	0.83	2.06	0.66	0.20	0.06	0.013	1104	40	121
AERSR221109	Stream	0.2	0.2	1.6	0.07	0.1	0.5	67.61	12.79	4.38	1.16	0.89	0.84	2.18	0.67	0.19	0.13	0.014	1008	35	127
AERSR221110	Stream	0.2	0.1	<0.5	0.05	0.1	0.9	67.87	12.93	4.76	1.22	0.85	0.93	2.09	0.67	0.20	0.06	0.014	946	35	115
AERSR221111	Stream	0.1	0.2	1.6	0.05	0.1	1.0	48.15	7.87	2.40	4.44	12.50	0.64	1.44	0.42	0.17	0.05	0.010	537	<20	144
AERSR221112	Stream	0.1	0.2	1.8	0.05	0.1	0.6	60.33	11.34	3.34	3.62	5.00	0.55	2.11	0.62	0.18	0.04	0.013	844	25	99
AERSR221113	Stream	0.1	0.1	<0.5	0.05	0.1	<0.5	58.54	11.75	3.73	3.59	5.45	0.98	1.84	0.57	0.13	0.06	0.013	783	29	123
AERSR221114	Stream	0.1	0.2	0.8	0.08	0.1	1.1	64.68	10.00	3.05	2.43	4.25	0.60	1.74	0.58	0.20	0.06	0.011	749	27	115
AERSR221115	Rock Pulp	0.1	0.1	35.7	0.02	<0.1	<0.5	71.76	12.10	4.12	1.74	3.34	3.43	1.44	0.39	0.12	0.07	0.016	475	90	404
AERSR221116	Stream	0.2	0.2	1.9	0.07	0.1	<0.5	63.10	14.76	3.46	1.79	2.22	1.03	2.38	0.71	0.11	0.03	0.015	890	35	118
AERSR221117	Stream	<0.1	<0.1	<0.5	0.01	0.1	<0.5	18.63	2.07	0.85	11.17	30.19	0.12	0.87	0.16	0.06	0.03	0.003	84	<20	119
AERSR221118	Stream	<0.1	<0.1	<0.5	0.02	<0.1	1.2	44.49	6.09	2.64	4.89	14.51	0.59	1.12	0.34	0.20	0.12	0.007	484	<20	161



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	Method Analyte Unit MDL	LF300	LF300	LF300	LF300	LF300	LF300	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Zr	Y	Nb	Sc	LOI	Sum	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr
		ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm
		5	3	5	1	-5.1	0.01	0.01	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1
AERSR221091	Stream	428	29	16	11	7.4	99.94	1.16	24.29	12.83	95.1	286	27.6	8.8	289	1.94	8.2	0.9	1.2	3.3	53.7
AERSR221092	Stream	408	31	22	12	8.0	99.92	1.28	25.46	13.43	102.7	336	28.2	9.4	302	2.06	8.6	1.0	1.0	3.3	56.6
AERSR221093	Stream	680	28	17	8	13.0	99.92	0.56	11.76	8.52	68.8	189	18.7	5.7	187	1.24	4.4	0.7	0.6	2.7	42.3
AERSR221094	Stream	516	27	14	9	10.2	99.93	0.86	17.57	11.31	82.7	189	26.4	8.5	517	1.75	6.1	0.7	1.1	3.6	37.4
AERSR221095	Stream	341	21	18	9	18.9	99.90	1.10	15.79	10.54	100.9	185	20.9	6.8	258	1.46	6.3	1.0	1.0	2.4	86.4
AERSR221096	Stream	329	25	20	9	19.2	99.90	1.64	17.74	14.09	94.8	256	31.2	8.1	432	1.79	7.6	0.9	1.0	3.0	121.1
AERSR221097	Stream	584	28	20	9	12.9	99.92	1.25	17.06	9.19	86.5	199	25.4	6.6	399	1.64	6.0	0.9	0.7	3.1	61.5
AERSR221098	Stream	360	28	16	12	11.2	99.91	0.95	22.92	13.45	100.9	286	31.8	9.4	557	2.08	6.3	0.7	1.4	3.1	49.3
AERSR221099	Stream	393	31	15	13	8.5	99.92	1.42	26.41	14.12	102.2	253	33.2	10.0	371	2.44	10.0	0.8	1.2	3.4	38.7
AERSR221100	Stream	504	28	19	10	5.6	99.92	1.20	17.20	11.76	82.7	195	22.7	6.3	109	1.72	10.9	0.8	0.5	3.9	35.7
AERSR221101	Pulp DUP	357	27	20	12	8.6	99.92	1.21	22.53	12.27	97.3	202	29.8	9.5	438	2.13	8.2	0.7	0.9	3.5	45.3
AERSR221102	Stream	346	27	19	11	11.9	99.93	1.19	20.88	13.02	103.2	254	29.4	8.7	487	2.01	8.3	0.6	1.4	3.2	43.9
AERSR221103	Stream	283	23	11	11	11.2	99.92	0.69	21.47	12.05	83.8	153	26.9	9.6	490	1.99	6.4	0.7	1.3	3.9	53.1
AERSR221104	Stream	311	27	14	11	16.0	99.90	0.81	21.91	11.47	90.8	309	29.7	7.7	441	1.83	5.2	0.5	1.8	2.2	52.3
AERSR221105	Stream	350	27	14	10	12.7	99.92	1.14	19.47	11.27	86.2	221	28.4	8.1	513	1.85	7.1	0.7	1.1	3.0	45.8
AERSR221106	Stream	332	15	6	4	28.4	99.80	0.61	6.03	4.88	33.1	55	10.5	3.3	184	0.95	3.8	0.5	<0.2	1.7	97.1
AERSR221107	Stream	353	28	16	12	8.0	99.91	1.22	22.92	12.18	94.3	194	29.2	9.6	463	2.18	7.9	0.7	1.2	3.4	42.8
AERSR221108	Stream	352	27	14	11	8.6	99.92	1.20	21.49	12.30	93.5	205	29.1	9.6	437	2.12	8.1	0.7	1.7	3.4	45.0
AERSR221109	Stream	325	26	13	12	8.9	99.91	1.37	23.02	11.49	99.0	189	32.3	9.7	1018	2.48	9.1	0.6	1.5	3.0	45.2
AERSR221110	Stream	332	25	13	12	8.2	99.92	1.63	23.10	12.27	100.3	137	32.8	10.3	446	2.72	9.1	0.6	2.3	3.0	36.3
AERSR221111	Stream	292	18	9	7	21.7	99.88	0.61	16.22	6.92	64.1	153	16.3	4.9	331	1.24	3.5	0.5	0.9	1.6	76.6
AERSR221112	Stream	390	25	13	11	12.6	99.88	0.90	17.09	10.77	79.1	192	24.4	8.1	312	1.81	7.2	0.6	0.9	2.8	36.4
AERSR221113	Stream	255	21	9	10	13.1	99.89	0.65	18.35	9.42	75.7	161	27.1	8.4	395	1.99	5.1	0.5	4.6	2.4	37.3
AERSR221114	Stream	416	25	14	9	12.2	99.91	0.91	19.68	9.97	81.0	220	25.0	8.1	479	1.70	5.9	0.6	1.1	2.4	43.4
AERSR221115	Rock Pulp	169	11	16	9	1.2	99.85	12.17	156.77	264.02	208.3	104	78.2	49.5	281	1.62	9.4	0.4	35.4	3.1	34.2
AERSR221116	Stream	270	23	13	14	10.1	99.90	0.55	32.91	11.33	84.8	157	31.8	11.1	210	1.69	7.2	0.5	0.8	2.8	32.5
AERSR221117	Stream	240	9	5	2	35.6	99.78	2.00	3.47	3.95	29.6	30	8.4	1.9	225	0.47	2.4	0.6	<0.2	0.9	105.3
AERSR221118	Stream	296	16	5	5	24.8	99.87	0.40	8.54	5.51	48.3	74	12.7	5.1	806	1.44	4.2	0.4	0.4	1.3	100.3



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	Method Analyte Unit MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg
		ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb
		0.01	0.02	0.02	1	0.01	0.001	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5
AERSR221091	Stream	0.87	0.33	0.18	28	0.47	0.073	9.7	17.3	0.32	444.8	0.004	3	1.16	0.008	0.14	<0.1	4.4	0.13	0.07	100
AERSR221092	Stream	0.86	0.36	0.18	29	0.54	0.072	10.1	18.3	0.34	482.3	0.004	3	1.20	0.008	0.15	<0.1	4.6	0.14	0.08	121
AERSR221093	Stream	0.61	0.26	0.11	23	3.24	0.080	9.1	13.5	1.12	332.5	0.003	4	0.81	0.007	0.11	<0.1	2.6	0.11	0.06	60
AERSR221094	Stream	0.64	0.28	0.16	27	1.66	0.077	12.4	17.8	0.60	338.8	0.003	3	1.08	0.007	0.13	<0.1	3.6	0.16	0.06	55
AERSR221095	Stream	0.75	0.31	0.14	24	7.13	0.062	8.0	16.7	1.59	275.5	0.003	5	0.97	0.008	0.15	<0.1	3.0	0.16	0.14	48
AERSR221096	Stream	0.90	0.46	0.16	18	6.30	0.116	7.0	14.5	1.44	233.8	0.001	9	0.58	0.009	0.19	<0.1	4.0	0.16	0.30	105
AERSR221097	Stream	0.85	0.40	0.13	27	4.27	0.094	9.6	19.7	1.21	303.6	0.004	5	0.88	0.007	0.13	<0.1	3.7	0.12	0.06	42
AERSR221098	Stream	0.69	0.29	0.19	31	0.86	0.074	8.0	19.6	0.49	371.7	0.002	6	1.28	0.009	0.16	<0.1	4.4	0.17	0.06	91
AERSR221099	Stream	0.59	0.34	0.19	30	0.81	0.074	7.7	21.8	0.53	402.9	0.002	3	1.21	0.006	0.15	<0.1	4.8	0.13	0.18	76
AERSR221100	Stream	0.28	0.25	0.16	20	1.04	0.081	4.0	12.6	0.53	266.0	0.001	4	0.72	0.007	0.11	<0.1	3.5	0.09	0.25	70
AERSR221101	Pulp DUP	0.61	0.28	0.18	30	1.24	0.070	6.8	18.9	0.63	438.7	0.002	4	1.20	0.008	0.14	<0.1	4.5	0.14	0.09	76
AERSR221102	Stream	0.45	0.25	0.18	28	1.05	0.074	6.6	17.2	0.51	505.7	0.002	4	1.19	0.008	0.15	<0.1	4.6	0.17	0.08	99
AERSR221103	Stream	0.47	0.21	0.18	28	2.27	0.070	9.5	19.2	0.88	476.6	0.002	3	1.30	0.009	0.17	<0.1	4.5	0.14	0.07	56
AERSR221104	Stream	0.99	0.38	0.16	28	2.86	0.071	10.4	18.8	0.84	304.1	0.002	3	1.26	0.007	0.13	<0.1	4.3	0.16	0.05	93
AERSR221105	Stream	0.81	0.31	0.16	26	2.60	0.072	8.9	16.4	1.09	266.3	0.002	3	1.09	0.007	0.13	<0.1	4.0	0.16	0.04	71
AERSR221106	Stream	0.25	0.19	0.05	11	13.77	0.039	4.6	7.1	5.12	105.2	0.001	5	0.35	0.013	0.08	<0.1	2.0	0.06	0.16	18
AERSR221107	Stream	0.61	0.25	0.17	30	1.05	0.075	6.7	19.1	0.57	429.3	0.002	2	1.21	0.008	0.13	<0.1	4.4	0.14	0.09	55
AERSR221108	Stream	0.63	0.32	0.17	28	1.23	0.074	6.7	17.6	0.63	438.1	0.002	3	1.16	0.008	0.13	<0.1	4.4	0.15	0.09	71
AERSR221109	Stream	0.42	0.30	0.16	29	0.53	0.077	6.8	19.7	0.38	338.8	0.001	3	1.16	0.007	0.12	<0.1	4.2	0.14	0.05	68
AERSR221110	Stream	0.33	0.30	0.16	29	0.51	0.075	5.8	20.3	0.41	290.6	0.001	3	1.28	0.008	0.12	<0.1	4.3	0.12	0.04	48
AERSR221111	Stream	0.42	0.26	0.09	18	7.65	0.064	6.6	12.3	2.27	182.4	0.003	4	0.78	0.009	0.10	<0.1	2.5	0.11	0.05	36
AERSR221112	Stream	0.40	0.27	0.14	22	3.21	0.068	5.0	14.9	1.76	260.2	0.001	4	0.96	0.008	0.12	<0.1	3.4	0.14	0.20	60
AERSR221113	Stream	0.34	0.23	0.13	26	3.38	0.049	8.6	18.4	1.74	255.8	0.002	2	1.32	0.009	0.13	<0.1	3.8	0.14	0.03	44
AERSR221114	Stream	0.72	0.39	0.13	21	2.73	0.081	6.5	14.1	1.16	279.3	0.002	3	0.88	0.007	0.11	<0.1	3.4	0.14	0.08	88
AERSR221115	Rock Pulp	0.50	0.18	0.14	24	0.60	0.053	24.2	32.4	0.50	58.6	0.072	2	0.84	0.098	0.11	<0.1	3.1	0.08	0.04	15
AERSR221116	Stream	0.39	0.28	0.19	20	1.47	0.040	6.6	17.3	0.70	364.1	0.001	2	1.01	0.008	0.16	<0.1	4.3	0.11	0.05	60
AERSR221117	Stream	0.31	0.32	0.03	10	18.53	0.024	4.2	4.5	5.98	17.4	0.001	6	0.15	0.015	0.07	<0.1	1.0	0.16	0.06	8
AERSR221118	Stream	0.34	0.18	0.07	14	8.70	0.074	5.9	10.1	2.49	220.3	0.003	4	0.69	0.012	0.08	<0.1	1.9	0.07	0.07	25



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CERTIFICATE OF ANALYSIS

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Method Analyte Unit MDL		AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Se	Te	Ga	Cs	Ge	Hf	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pr	Nd
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm
		0.1	0.02	0.1	0.02	0.1	0.02	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	0.02	0.02
AERSR221091	Stream	0.8	0.04	3.4	1.37	<0.1	0.04	0.15	12.2	0.6	<0.05	1.9	12.87	21.0	0.03	3	0.4	18.5	3.07	12.95
AERSR221092	Stream	0.9	0.04	3.6	1.49	<0.1	0.03	0.17	13.1	0.5	<0.05	1.6	13.53	21.2	0.03	3	0.8	18.5	3.17	13.13
AERSR221093	Stream	1.1	0.03	2.6	0.85	<0.1	0.06	0.15	10.6	0.3	<0.05	2.0	10.27	18.2	0.02	2	0.7	12.1	2.79	11.86
AERSR221094	Stream	0.9	0.04	3.6	1.08	<0.1	0.06	0.15	12.0	0.4	<0.05	2.3	11.89	25.1	0.03	2	0.8	14.9	3.57	15.38
AERSR221095	Stream	1.2	0.04	2.9	1.18	<0.1	0.06	0.15	10.9	0.4	<0.05	2.3	8.78	15.9	0.02	5	0.6	16.9	2.33	9.76
AERSR221096	Stream	1.7	0.06	1.7	1.59	<0.1	0.03	0.09	11.7	0.4	<0.05	1.1	11.46	15.3	0.03	11	0.4	9.2	2.46	10.88
AERSR221097	Stream	0.7	0.04	2.7	0.85	<0.1	0.05	0.13	9.0	0.4	<0.05	1.9	11.51	19.5	0.03	2	0.4	11.8	2.93	12.19
AERSR221098	Stream	1.1	0.04	4.0	1.18	<0.1	0.08	0.21	12.8	0.5	<0.05	2.6	12.20	18.2	0.04	6	0.6	21.7	2.66	11.08
AERSR221099	Stream	0.9	0.04	3.7	1.28	<0.1	0.04	0.12	11.4	0.5	<0.05	1.9	11.86	17.3	0.04	4	0.8	20.7	2.55	11.04
AERSR221100	Stream	0.7	0.05	2.2	1.47	<0.1	0.04	<0.02	9.9	0.4	<0.05	1.8	9.95	9.8	0.03	5	0.8	14.5	1.51	7.77
AERSR221101	Pulp DUP	0.9	0.07	3.9	1.43	<0.1	0.05	0.10	11.7	0.5	<0.05	2.1	10.31	16.0	0.03	4	0.9	19.8	2.34	10.27
AERSR221102	Stream	1.4	0.04	3.6	1.09	<0.1	0.07	0.15	13.3	0.4	<0.05	2.5	11.59	15.2	0.03	5	0.5	20.0	2.21	10.54
AERSR221103	Stream	0.6	0.04	4.1	0.97	<0.1	0.12	0.13	12.1	0.5	<0.05	3.7	9.90	21.6	0.02	3	0.8	16.5	3.01	12.20
AERSR221104	Stream	1.2	0.05	3.6	1.14	<0.1	0.08	0.17	11.7	0.4	<0.05	2.4	11.85	20.4	0.03	2	0.9	21.0	3.02	12.39
AERSR221105	Stream	0.9	0.04	3.2	1.05	<0.1	0.05	0.13	10.6	0.4	<0.05	2.3	12.29	19.1	0.03	1	0.7	18.4	2.60	11.39
AERSR221106	Stream	0.3	0.02	1.0	0.46	<0.1	<0.02	0.03	4.9	0.2	<0.05	1.0	6.23	9.9	<0.02	2	0.1	7.7	1.32	5.57
AERSR221107	Stream	0.9	0.04	3.6	1.33	<0.1	0.05	0.08	11.1	0.4	<0.05	1.9	10.39	15.4	0.03	4	0.7	19.6	2.33	10.10
AERSR221108	Stream	0.7	0.05	3.8	1.43	<0.1	0.06	0.08	11.2	0.5	<0.05	1.9	10.69	16.1	0.04	3	0.5	19.3	2.40	10.07
AERSR221109	Stream	1.1	0.04	3.4	1.02	<0.1	0.07	0.12	9.6	0.4	<0.05	2.1	11.99	15.8	0.03	3	0.7	19.3	2.25	10.61
AERSR221110	Stream	1.1	0.04	3.8	0.97	<0.1	0.07	0.09	10.0	0.4	<0.05	2.2	9.32	13.9	0.03	3	0.7	21.4	1.94	9.07
AERSR221111	Stream	1.1	0.02	2.1	0.63	<0.1	0.05	0.17	6.8	0.3	<0.05	1.6	7.90	13.4	<0.02	2	0.4	11.2	1.83	7.85
AERSR221112	Stream	1.0	0.05	2.6	1.20	<0.1	0.04	0.08	9.5	0.3	<0.05	1.8	10.40	11.5	0.03	4	0.6	15.9	1.76	8.38
AERSR221113	Stream	0.7	0.04	3.6	0.94	<0.1	0.08	0.12	9.9	0.4	<0.05	2.3	8.78	18.8	0.03	1	0.6	19.8	2.48	10.79
AERSR221114	Stream	1.4	0.04	2.5	0.99	<0.1	0.04	0.13	8.4	0.3	<0.05	1.7	10.55	14.4	0.02	2	0.6	12.0	2.04	9.31
AERSR221115	Rock Pulp	0.2	<0.02	2.8	1.14	<0.1	0.20	0.33	6.8	2.3	<0.05	6.5	5.51	40.3	0.04	<1	0.2	8.6	4.79	16.83
AERSR221116	Stream	0.7	0.05	3.0	1.33	<0.1	0.07	0.05	11.5	0.4	<0.05	2.2	7.04	14.8	0.04	1	0.7	13.4	1.93	8.41
AERSR221117	Stream	0.8	<0.02	0.5	0.31	<0.1	<0.02	<0.02	3.2	<0.1	<0.05	1.2	4.48	7.3	<0.02	2	0.1	5.2	1.02	4.15
AERSR221118	Stream	1.3	0.02	1.8	0.41	<0.1	0.06	0.14	5.9	0.2	<0.05	1.8	6.55	11.7	<0.02	1	0.3	10.3	1.58	6.71



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Method Analyte Unit MDL		AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Pd	Pt
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb
		0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	10	2
AERSR221091	Stream	0.76	3.70	0.47	2.53	0.45	1.10	0.14	0.82	0.10	<10	<2
AERSR221092	Stream	0.91	3.99	0.53	2.97	0.48	1.22	0.14	0.83	0.12	<10	<2
AERSR221093	Stream	0.62	2.83	0.36	2.03	0.34	0.89	0.10	0.64	0.08	<10	<2
AERSR221094	Stream	0.74	3.17	0.46	2.41	0.44	1.01	0.12	0.68	0.10	<10	<2
AERSR221095	Stream	0.51	2.39	0.32	1.61	0.29	0.76	0.09	0.61	0.07	<10	<2
AERSR221096	Stream	0.61	3.07	0.41	2.07	0.38	0.95	0.11	0.65	0.07	<10	<2
AERSR221097	Stream	0.67	2.76	0.39	2.26	0.38	0.93	0.11	0.77	0.11	<10	<2
AERSR221098	Stream	0.78	3.50	0.50	2.63	0.47	1.14	0.13	0.71	0.09	<10	<2
AERSR221099	Stream	0.77	3.47	0.47	2.55	0.45	1.00	0.13	0.80	0.09	<10	<2
AERSR221100	Stream	0.60	3.06	0.42	2.16	0.36	0.91	0.08	0.51	0.05	<10	<2
AERSR221101	Pulp DUP	0.74	3.23	0.44	2.41	0.41	0.92	0.11	0.65	0.08	<10	<2
AERSR221102	Stream	0.72	3.44	0.46	2.52	0.41	1.02	0.12	0.68	0.09	<10	<2
AERSR221103	Stream	0.68	3.06	0.41	2.30	0.36	0.88	0.10	0.62	0.09	<10	<2
AERSR221104	Stream	0.72	3.32	0.45	2.54	0.45	1.04	0.13	0.79	0.10	<10	<2
AERSR221105	Stream	0.78	3.35	0.43	2.47	0.41	1.16	0.14	0.71	0.11	<10	<2
AERSR221106	Stream	0.33	1.53	0.19	1.19	0.21	0.58	0.06	0.37	0.05	<10	<2
AERSR221107	Stream	0.82	3.07	0.41	2.44	0.39	0.90	0.12	0.72	0.08	<10	2
AERSR221108	Stream	0.75	3.25	0.44	2.42	0.42	0.93	0.11	0.69	0.09	<10	<2
AERSR221109	Stream	0.71	3.28	0.44	2.34	0.40	0.95	0.11	0.61	0.08	<10	<2
AERSR221110	Stream	0.62	2.72	0.37	1.94	0.33	0.77	0.09	0.51	0.07	<10	<2
AERSR221111	Stream	0.42	1.90	0.25	1.39	0.25	0.61	0.07	0.44	0.06	<10	<2
AERSR221112	Stream	0.60	2.87	0.38	2.10	0.35	0.84	0.10	0.57	0.07	<10	<2
AERSR221113	Stream	0.56	2.49	0.32	1.71	0.29	0.73	0.09	0.51	0.07	<10	<2
AERSR221114	Stream	0.57	2.72	0.36	1.97	0.35	0.84	0.10	0.57	0.08	<10	<2
AERSR221115	Rock Pulp	0.54	1.66	0.19	1.07	0.19	0.51	0.07	0.43	0.06	49	24
AERSR221116	Stream	0.50	2.34	0.30	1.57	0.25	0.58	0.07	0.41	0.05	<10	<2
AERSR221117	Stream	0.17	0.84	0.11	0.68	0.13	0.33	0.04	0.26	0.03	<10	<2
AERSR221118	Stream	0.33	1.52	0.20	1.14	0.20	0.50	0.06	0.37	0.05	<10	<2



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QUALITY CONTROL REPORT

VAN22003106.1

	Method	WGHT	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100
	Analyte	Wgt	Ba	Be	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	La	Ce
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.01	1	1	0.2	0.1	0.5	0.1	0.1	0.1	1	0.5	0.1	0.2	0.1	8	0.5	0.1	0.1	0.1	0.1
AERSR221034	Stream Sedim	2.17	915	2	10.0	5.0	13.4	16.3	12.7	71.8	1	165.4	1.0	10.0	4.3	125	1.4	645.1	32.0	36.1	63.8
AERSR221072	Rock Pulp	0.07	475	<1	52.1	2.0	13.2	4.0	16.4	37.5	6	416.3	0.5	4.1	0.8	60	0.7	163.8	11.6	33.7	59.8
AERSR221110	Stream Sedim	2.60	881	<1	10.6	4.7	14.0	7.7	11.7	82.1	1	116.0	1.0	8.8	4.0	164	0.9	299.4	23.7	30.7	56.1
Pulp Duplicates																					
AERSR221002	Stream Sedim	2.42	1092	<1	7.2	5.3	15.1	16.8	18.5	94.8	2	271.7	1.0	11.3	4.1	134	1.5	668.4	29.5	39.7	69.5
REP AERSR221002	QC																				
AERSR221005	Stream Sedim	2.31	1114	<1	6.0	6.3	15.8	11.0	23.0	114.4	2	445.5	1.1	12.1	4.9	112	1.7	433.8	23.9	45.0	75.1
REP AERSR221005	QC																				
AERSR221024	Stream Sedim	2.10	681	<1	6.7	5.5	10.9	13.5	12.1	79.5	3	141.4	0.8	9.4	4.0	107	1.6	546.8	25.4	33.1	59.1
REP AERSR221024	QC		670	<1	6.4	5.3	12.2	12.5	12.5	82.0	<1	145.4	0.8	9.7	3.8	113	1.2	536.1	25.4	33.2	58.5
AERSR221025	Stream Sedim	1.89	739	7	6.9	5.2	12.8	9.0	11.3	76.6	<1	208.1	0.7	8.5	3.1	112	1.4	372.2	25.2	30.4	53.3
REP AERSR221025	QC																				
AERSR221037	Stream Sedim	2.63	883	4	10.4	5.2	15.0	14.1	12.6	82.3	2	126.9	0.9	10.2	4.7	154	1.1	570.8	30.9	37.0	66.1
REP AERSR221037	QC																				
AERSR221040	Stream Sedim	2.48	680	<1	8.9	7.4	16.4	6.5	12.1	109.4	2	162.7	0.8	10.6	3.8	112	1.8	238.5	27.1	34.3	65.0
REP AERSR221040	QC																				
AERSR221059	Stream Sedim	1.82	838	<1	11.5	5.5	15.1	10.3	12.4	80.0	1	192.8	0.8	9.5	4.0	145	1.5	395.7	29.0	34.5	61.5
REP AERSR221059	QC		842	3	10.6	5.4	15.5	11.2	11.8	80.5	2	200.9	0.9	9.1	4.3	137	1.6	427.5	28.2	32.6	61.9
AERSR221060	Stream Sedim	1.47	862	5	8.8	5.2	13.9	15.9	18.1	83.0	1	404.8	1.4	11.0	4.2	134	1.4	638.6	30.6	45.4	83.6
REP AERSR221060	QC																				
AERSR221074	Stream Sedim	2.97	999	2	7.0	5.1	11.5	13.1	10.8	80.1	<1	110.9	0.8	10.2	4.2	99	1.2	508.5	27.6	35.4	68.3
REP AERSR221074	QC																				
AERSR221076	Stream Sedim	2.76	936	<1	9.8	8.7	17.3	9.6	14.4	106.0	3	122.6	1.1	13.0	4.4	123	2.6	354.7	27.6	41.6	75.4
REP AERSR221076	QC																				
AERSR221095	Stream Sedim	2.65	690	4	7.5	5.0	10.7	8.9	9.6	69.1	1	157.6	0.7	7.8	4.1	112	1.1	368.6	23.5	26.1	46.6
REP AERSR221095	QC		693	<1	8.3	4.6	11.6	9.2	9.4	71.1	1	158.0	0.7	7.6	4.4	107	0.8	364.3	22.7	27.8	46.9
AERSR221096	Stream Sedim	2.22	512	6	9.7	5.6	11.4	8.7	14.5	80.4	1	200.5	0.9	8.3	3.8	101	1.3	342.0	24.8	32.2	56.1
REP AERSR221096	QC																				
AERSR221109	Stream Sedim	2.86	958	3	10.4	5.7	14.8	8.3	12.8	88.4	2	127.2	0.9	9.4	3.9	178	1.2	308.7	26.0	32.4	61.1



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QUALITY CONTROL REPORT

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	Method Analyte Unit MDL	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Mo	Cu	Pb	Zn	Ni	As	Cd	Sb
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.3	0.05	0.02	0.05	0.01	0.05	0.02	0.03	0.01	0.05	0.01	0.1	0.1	0.1	1	0.1	0.5	0.1	0.1
AERSR221034	Stream Sedim	7.71	28.3	5.42	1.18	5.56	0.86	5.41	1.08	3.56	0.53	3.59	0.58	1.0	24.7	13.0	92	26.1	6.1	1.1	0.3
AERSR221072	Rock Pulp	6.98	24.9	3.88	1.04	3.09	0.38	2.18	0.44	1.20	0.18	1.13	0.18	12.5	151.1	291.3	209	79.8	10.3	0.5	0.2
AERSR221110	Stream Sedim	6.62	25.2	4.65	0.94	4.30	0.62	3.86	0.77	2.43	0.35	2.39	0.34	1.7	22.8	13.1	101	32.5	8.9	0.3	0.3
Pulp Duplicates																					
AERSR221002	Stream Sedim	8.30	29.4	5.32	1.17	5.28	0.81	4.77	0.96	3.16	0.45	3.26	0.51	0.6	18.1	13.1	82	19.0	4.1	0.4	0.2
REP AERSR221002	QC																				
AERSR221005	Stream Sedim	8.59	29.1	5.00	1.21	4.62	0.64	3.94	0.82	2.64	0.40	2.49	0.39	0.6	21.8	17.2	70	13.4	5.2	0.4	0.2
REP AERSR221005	QC													0.6	21.1	17.5	72	13.6	5.3	0.5	0.2
AERSR221024	Stream Sedim	7.00	25.6	4.69	1.02	4.35	0.66	4.09	0.83	2.60	0.38	2.50	0.40	0.9	14.3	12.2	77	18.9	4.5	0.5	0.2
REP AERSR221024	QC	7.02	26.9	5.02	1.00	4.40	0.68	4.25	0.86	2.60	0.38	2.55	0.41								
AERSR221025	Stream Sedim	6.71	25.8	4.73	1.04	4.70	0.69	4.26	0.81	2.52	0.37	2.41	0.38	1.0	17.7	11.7	81	21.3	4.3	0.5	0.3
REP AERSR221025	QC																				
AERSR221037	Stream Sedim	7.83	28.6	5.00	1.22	5.04	0.80	5.00	0.94	3.23	0.47	3.30	0.51	1.0	18.1	11.7	90	27.8	7.3	0.5	0.3
REP AERSR221037	QC																				
AERSR221040	Stream Sedim	7.77	29.6	5.68	1.12	4.62	0.75	4.29	0.94	2.70	0.39	2.60	0.41	0.4	25.3	12.7	75	21.5	3.8	0.5	0.2
REP AERSR221040	QC													0.5	25.2	12.9	80	22.2	3.7	0.5	0.2
AERSR221059	Stream Sedim	7.62	28.5	5.40	1.25	5.17	0.78	4.56	0.98	2.98	0.44	2.91	0.49	0.8	28.7	12.9	104	27.3	4.3	1.1	0.4
REP AERSR221059	QC	7.37	28.6	5.13	1.17	5.03	0.71	4.49	0.94	2.81	0.42	2.73	0.47								
AERSR221060	Stream Sedim	9.70	36.5	6.64	1.48	5.64	0.84	5.03	1.03	3.24	0.46	3.23	0.50	0.6	25.6	12.5	82	20.6	5.8	0.3	0.4
REP AERSR221060	QC																				
AERSR221074	Stream Sedim	7.75	29.7	5.22	1.15	5.06	0.82	4.86	1.01	3.27	0.48	3.11	0.48	0.6	16.0	12.4	67	16.4	6.3	0.3	0.2
REP AERSR221074	QC																				
AERSR221076	Stream Sedim	8.79	32.9	5.82	1.17	5.56	0.81	4.91	0.96	3.01	0.45	3.00	0.48	0.5	18.2	17.6	73	16.3	4.8	0.4	0.1
REP AERSR221076	QC													0.5	16.9	16.2	70	15.1	4.4	0.3	0.1
AERSR221095	Stream Sedim	5.74	21.0	3.97	0.87	3.98	0.58	3.59	0.76	2.24	0.34	2.34	0.35	1.3	16.3	10.7	104	20.9	6.3	0.6	0.2
REP AERSR221095	QC	6.01	23.3	4.27	0.97	3.94	0.57	3.56	0.77	2.28	0.34	2.30	0.37								
AERSR221096	Stream Sedim	6.96	25.1	5.03	1.04	4.75	0.69	4.15	0.88	2.54	0.36	2.45	0.38	1.6	18.6	14.3	97	29.6	7.0	0.8	0.3
REP AERSR221096	QC																				
AERSR221109	Stream Sedim	7.22	28.5	5.50	1.19	5.14	0.72	4.43	0.88	2.68	0.40	2.62	0.41	1.5	22.1	11.9	104	31.7	8.9	0.4	0.3



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QUALITY CONTROL REPORT

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	Method Analyte Unit MDL	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300
		Bi	Ag	Au	Hg	Tl	Se	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr
		ppm	ppm	ppb	ppm	ppm	ppm	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm
		0.1	0.1	0.5	0.01	0.1	0.5	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2
AERSR221034	Stream Sedim	0.2	0.3	1.3	0.07	0.1	0.9	68.96	12.03	3.47	1.49	1.84	0.83	1.85	0.66	0.21	0.07	0.011	914	24	160
AERSR221072	Rock Pulp	0.1	0.1	39.4	0.02	<0.1	<0.5	71.77	12.12	4.00	1.72	3.34	3.46	1.43	0.38	0.13	0.06	0.015	467	94	399
AERSR221110	Stream Sedim	0.2	0.1	<0.5	0.05	0.1	0.9	67.87	12.93	4.76	1.22	0.85	0.93	2.09	0.67	0.20	0.06	0.014	946	35	115
Pulp Duplicates																					
AERSR221002	Stream Sedim	0.2	0.2	1.4	0.05	0.2	0.8	66.82	11.23	2.85	1.20	1.86	0.78	2.36	0.59	0.19	0.06	0.009	1101	20	258
REP AERSR221002	QC																				
AERSR221005	Stream Sedim	0.2	0.1	1.7	0.03	0.3	0.8	60.03	12.68	3.32	2.11	4.67	0.94	3.09	0.53	0.15	0.08	0.007	1120	<20	432
REP AERSR221005	QC	0.2	0.1	1.5	0.04	0.3	0.8														
AERSR221024	Stream Sedim	0.2	0.1	0.6	0.04	0.2	0.8	63.58	9.83	2.79	2.91	5.09	0.64	1.99	0.54	0.19	0.04	0.009	681	21	138
REP AERSR221024	QC																				
AERSR221025	Stream Sedim	0.2	0.2	1.1	0.06	0.2	1.4	63.15	9.91	2.82	1.49	3.59	0.69	1.75	0.53	0.19	0.05	0.009	748	27	205
REP AERSR221025	QC							63.34	9.83	2.80	1.46	3.55	0.68	1.75	0.52	0.19	0.05	0.009	749	26	203
AERSR221037	Stream Sedim	0.2	0.2	2.2	0.05	0.1	<0.5	68.79	11.52	3.73	1.52	1.89	0.73	1.97	0.63	0.21	0.05	0.012	833	38	111
REP AERSR221037	QC																				
AERSR221040	Stream Sedim	0.2	0.1	1.2	0.03	0.2	<0.5	60.90	13.06	3.69	2.56	4.60	0.93	2.51	0.57	0.16	0.06	0.007	655	35	145
REP AERSR221040	QC	0.2	0.1	0.8	0.04	0.2	0.7														
AERSR221059	Stream Sedim	0.2	0.2	2.5	0.08	0.2	0.5	67.00	13.43	4.26	1.33	1.29	1.14	2.06	0.68	0.18	0.14	0.011	822	39	188
REP AERSR221059	QC																				
AERSR221060	Stream Sedim	0.1	0.1	3.6	0.05	0.2	<0.5	67.50	12.32	4.37	1.38	2.30	1.36	2.28	0.73	0.20	0.07	0.010	846	27	381
REP AERSR221060	QC							67.44	12.37	4.35	1.38	2.30	1.38	2.32	0.71	0.20	0.07	0.011	847	27	387
AERSR221074	Stream Sedim	0.2	0.1	<0.5	0.05	0.1	0.8	63.23	9.45	2.88	3.16	5.58	0.75	2.14	0.58	0.20	0.05	0.008	987	<20	105
REP AERSR221074	QC																				
AERSR221076	Stream Sedim	0.3	0.1	<0.5	0.06	0.2	<0.5	63.15	14.24	4.01	2.51	2.83	1.03	2.42	0.64	0.13	0.04	0.009	952	<20	116
REP AERSR221076	QC	0.3	0.1	<0.5	0.04	0.2	<0.5														
AERSR221095	Stream Sedim	0.1	0.2	<0.5	0.05	0.2	1.3	51.06	9.24	2.85	3.30	11.48	0.47	1.73	0.51	0.18	0.04	0.011	676	31	147
REP AERSR221095	QC																				
AERSR221096	Stream Sedim	0.2	0.3	<0.5	0.08	0.2	1.2	51.19	9.33	3.32	3.11	9.97	0.33	2.35	0.58	0.32	0.06	0.011	512	41	183
REP AERSR221096	QC							51.04	9.40	3.33	3.10	9.98	0.34	2.40	0.59	0.31	0.06	0.010	512	41	184
AERSR221109	Stream Sedim	0.2	0.2	1.6	0.07	0.1	0.5	67.61	12.79	4.38	1.16	0.89	0.84	2.18	0.67	0.19	0.13	0.014	1008	35	127



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QUALITY CONTROL REPORT

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	Method	LF300	LF300	LF300	LF300	LF300	LF300	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
	Analyte	Zr	Y	Nb	Sc	LOI	Sum	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr
	Unit	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm
	MDL	5	3	5	1	-5.1	0.01	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5
AERSR221034	Stream Sedim	652	31	11	10	8.3	99.93	1.01	23.43	12.75	90.6	279	24.7	8.3	509	1.81	5.8	0.9	4.7	3.8	66.6
AERSR221072	Rock Pulp	167	10	13	9	1.3	99.87	11.85	152.44	256.08	207.5	107	77.0	48.5	272	1.59	9.2	0.4	35.9	2.9	32.3
AERSR221110	Stream Sedim	332	25	13	12	8.2	99.92	1.63	23.10	12.27	100.3	137	32.8	10.3	446	2.72	9.1	0.6	2.3	3.0	36.3
Pulp Duplicates																					
AERSR221002	Stream Sedim	630	28	21	8	11.7	99.92	0.68	18.21	11.91	81.6	172	18.5	6.1	440	1.42	4.2	0.6	2.3	2.6	75.9
REP AERSR221002	QC							0.65	17.01	11.67	76.0	166	17.8	5.9	423	1.38	4.1	0.6	2.3	2.8	73.4
AERSR221005	Stream Sedim	453	22	29	6	12.1	99.92	0.58	20.19	16.77	70.3	136	12.8	5.4	537	1.49	4.8	0.8	1.7	3.2	138.0
REP AERSR221005	QC																				
AERSR221024	Stream Sedim	575	25	17	7	12.1	99.90	0.91	14.01	12.04	76.4	142	18.0	5.6	286	1.42	4.6	0.7	0.7	3.5	49.1
REP AERSR221024	QC																				
AERSR221025	Stream Sedim	377	25	15	8	15.6	99.93	0.99	17.13	11.16	80.5	224	20.3	6.1	319	1.46	4.4	0.6	1.2	2.2	115.6
REP AERSR221025	QC	365	24	14	8	15.6	99.92														
AERSR221037	Stream Sedim	601	26	15	10	8.7	99.92	1.05	19.77	12.08	94.8	152	26.7	9.5	348	2.06	7.0	0.7	0.9	3.9	30.7
REP AERSR221037	QC							1.06	19.19	11.41	92.5	154	26.7	9.4	333	1.97	6.9	0.7	2.9	3.7	30.0
AERSR221040	Stream Sedim	239	25	13	11	10.8	99.92	0.57	26.72	12.44	79.4	99	22.0	7.5	401	1.59	3.1	0.7	1.8	4.4	80.2
REP AERSR221040	QC																				
AERSR221059	Stream Sedim	445	26	13	12	8.2	99.92	0.84	32.39	11.76	113.6	148	30.1	9.3	1085	2.17	4.7	0.6	2.3	2.8	54.5
REP AERSR221059	QC																				
AERSR221060	Stream Sedim	729	29	21	9	7.1	99.92	0.55	25.48	11.02	83.4	129	20.7	8.0	481	2.16	5.0	0.8	2.4	3.6	78.2
REP AERSR221060	QC	717	29	20	10	7.1	99.91														
AERSR221074	Stream Sedim	522	27	19	8	11.7	99.91	0.62	16.17	11.84	64.4	108	16.1	6.8	330	1.40	6.1	0.7	0.7	4.1	46.0
REP AERSR221074	QC							0.62	16.69	12.14	63.3	111	16.2	6.9	332	1.41	6.1	0.7	1.0	4.1	46.9
AERSR221076	Stream Sedim	347	28	20	12	8.7	99.90	0.48	17.60	17.44	69.0	141	16.9	8.1	286	1.77	4.8	0.8	1.3	5.4	48.0
REP AERSR221076	QC																				
AERSR221095	Stream Sedim	341	21	18	9	18.9	99.90	1.10	15.79	10.54	100.9	185	20.9	6.8	258	1.46	6.3	1.0	1.0	2.4	86.4
REP AERSR221095	QC																				
AERSR221096	Stream Sedim	329	25	20	9	19.2	99.90	1.64	17.74	14.09	94.8	256	31.2	8.1	432	1.79	7.6	0.9	1.0	3.0	121.1
REP AERSR221096	QC	328	25	17	9	19.2	99.89														
AERSR221109	Stream Sedim	325	26	13	12	8.9	99.91	1.37	23.02	11.49	99.0	189	32.3	9.7	1018	2.48	9.1	0.6	1.5	3.0	45.2



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QUALITY CONTROL REPORT

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	Method	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
	Analyte	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Ti	S	Hg
	Unit	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb
	MDL	0.01	0.02	0.02	1	0.01	0.001	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5
AERSR221034	Stream Sedim	1.06	0.51	0.17	32	1.12	0.079	16.7	15.8	0.63	447.7	0.004	2	1.34	0.008	0.16	<0.1	4.0	0.15	0.04	92
AERSR221072	Rock Pulp	0.48	0.19	0.14	24	0.58	0.053	23.2	29.9	0.48	58.1	0.067	1	0.82	0.093	0.12	<0.1	2.8	0.08	0.04	17
AERSR221110	Stream Sedim	0.33	0.30	0.16	29	0.51	0.075	5.8	20.3	0.41	290.6	0.001	3	1.28	0.008	0.12	<0.1	4.3	0.12	0.04	48
Pulp Duplicates																					
AERSR221002	Stream Sedim	0.35	0.33	0.17	25	1.18	0.070	15.8	11.1	0.44	445.5	0.004	4	1.03	0.008	0.17	<0.1	2.5	0.19	0.05	54
REP AERSR221002	QC	0.33	0.34	0.17	25	1.15	0.069	16.0	10.6	0.43	435.3	0.004	4	0.99	0.009	0.16	<0.1	2.5	0.18	0.05	49
AERSR221005	Stream Sedim	0.39	0.32	0.20	23	2.93	0.057	23.3	9.4	0.92	348.2	0.003	3	1.02	0.013	0.20	<0.1	2.1	0.25	0.06	36
REP AERSR221005	QC																				
AERSR221024	Stream Sedim	0.47	0.31	0.17	24	3.40	0.073	12.6	12.8	1.38	235.7	0.002	4	1.00	0.009	0.16	<0.1	2.6	0.16	0.07	37
REP AERSR221024	QC																				
AERSR221025	Stream Sedim	0.49	0.38	0.15	25	2.29	0.069	9.8	12.9	0.60	309.6	0.003	5	1.08	0.010	0.15	<0.1	2.7	0.18	0.06	58
REP AERSR221025	QC																				
AERSR221037	Stream Sedim	0.46	0.41	0.17	29	1.20	0.079	10.0	16.5	0.59	328.0	0.002	3	1.04	0.007	0.13	<0.1	3.5	0.15	0.07	44
REP AERSR221037	QC	0.49	0.39	0.16	28	1.16	0.076	9.7	16.1	0.57	326.5	0.002	3	1.03	0.007	0.13	<0.1	3.4	0.14	0.07	50
AERSR221040	Stream Sedim	0.58	0.40	0.22	17	2.88	0.060	11.0	13.0	1.01	279.6	0.002	3	1.21	0.009	0.23	<0.1	3.5	0.19	0.04	34
REP AERSR221040	QC																				
AERSR221059	Stream Sedim	1.13	0.54	0.17	37	0.65	0.067	13.8	20.1	0.49	287.2	0.005	2	1.52	0.010	0.15	<0.1	4.6	0.16	0.04	67
REP AERSR221059	QC																				
AERSR221060	Stream Sedim	0.39	0.49	0.16	46	1.25	0.074	20.6	15.3	0.54	216.4	0.018	2	1.29	0.054	0.14	<0.1	3.4	0.13	0.02	39
REP AERSR221060	QC																				
AERSR221074	Stream Sedim	0.38	0.25	0.20	16	3.66	0.077	11.0	10.9	1.48	533.3	0.004	5	0.88	0.007	0.16	<0.1	3.2	0.14	0.19	33
REP AERSR221074	QC	0.37	0.28	0.21	17	3.67	0.072	11.3	11.5	1.49	532.7	0.004	6	0.89	0.007	0.16	<0.1	3.2	0.14	0.19	48
AERSR221076	Stream Sedim	0.36	0.20	0.30	18	1.78	0.047	17.9	12.7	0.99	469.2	0.003	3	1.28	0.010	0.21	<0.1	4.9	0.18	0.12	39
REP AERSR221076	QC																				
AERSR221095	Stream Sedim	0.75	0.31	0.14	24	7.13	0.062	8.0	16.7	1.59	275.5	0.003	5	0.97	0.008	0.15	<0.1	3.0	0.16	0.14	48
REP AERSR221095	QC																				
AERSR221096	Stream Sedim	0.90	0.46	0.16	18	6.30	0.116	7.0	14.5	1.44	233.8	0.001	9	0.58	0.009	0.19	<0.1	4.0	0.16	0.30	105
REP AERSR221096	QC																				
AERSR221109	Stream Sedim	0.42	0.30	0.16	29	0.53	0.077	6.8	19.7	0.38	338.8	0.001	3	1.16	0.007	0.12	<0.1	4.2	0.14	0.05	68



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	Method Analyte Unit MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Se	Te	Ga	Cs	Ge	Hf	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pr	Nd	Sm
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm
		0.1	0.02	0.1	0.02	0.1	0.02	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	0.02	0.02	0.02
AERSR221034	Stream Sedim	0.9	0.04	3.7	1.56	<0.1	0.05	0.17	12.5	0.5	<0.05	2.0	12.10	34.7	0.03	<1	0.9	13.3	4.27	17.44	3.68
AERSR221072	Rock Pulp	0.1	<0.02	2.6	1.06	<0.1	0.16	0.40	7.0	2.2	<0.05	5.6	5.37	40.6	0.04	<1	0.2	8.5	4.89	16.51	2.45
AERSR221110	Stream Sedim	1.1	0.04	3.8	0.97	<0.1	0.07	0.09	10.0	0.4	<0.05	2.2	9.32	13.9	0.03	3	0.7	21.4	1.94	9.07	2.50
Pulp Duplicates																					
AERSR221002	Stream Sedim	0.9	0.04	3.0	1.57	<0.1	0.05	0.55	15.0	0.4	<0.05	2.0	11.02	30.3	0.02	3	0.9	14.1	3.57	14.13	2.98
REP AERSR221002	QC	0.9	0.04	2.8	1.63	<0.1	0.05	0.51	14.8	0.4	<0.05	1.8	10.34	30.3	0.02	3	0.9	13.7	3.66	14.25	2.98
AERSR221005	Stream Sedim	0.9	0.07	2.8	1.79	<0.1	0.06	0.67	15.0	1.5	<0.05	2.9	9.13	41.8	0.02	1	1.4	12.3	4.86	16.90	2.91
REP AERSR221005	QC																				
AERSR221024	Stream Sedim	0.8	0.03	2.8	1.26	<0.1	0.07	0.21	12.1	0.4	<0.05	2.3	11.11	24.5	0.02	2	0.7	12.5	3.14	13.16	2.92
REP AERSR221024	QC																				
AERSR221025	Stream Sedim	1.4	0.05	3.0	1.37	<0.1	0.06	0.30	13.7	0.4	<0.05	2.1	11.65	19.6	0.02	3	0.7	14.4	2.61	11.48	2.89
REP AERSR221025	QC																				
AERSR221037	Stream Sedim	0.7	0.04	3.2	1.08	<0.1	0.07	0.11	11.2	0.4	<0.05	2.1	11.15	21.4	0.03	1	0.7	14.4	2.87	12.69	3.09
REP AERSR221037	QC	0.8	0.05	3.2	1.02	<0.1	0.06	0.11	11.0	0.4	<0.05	2.0	11.24	20.7	0.03	1	0.7	13.6	2.87	12.63	3.05
AERSR221040	Stream Sedim	0.6	0.04	3.3	1.57	<0.1	0.08	0.08	16.5	0.5	<0.05	2.1	9.34	25.0	0.03	1	0.8	14.2	3.28	14.16	3.27
REP AERSR221040	QC																				
AERSR221059	Stream Sedim	0.9	0.06	4.3	1.58	<0.1	0.04	0.30	11.7	0.9	<0.05	1.6	10.56	27.5	0.03	1	0.8	19.5	3.59	14.99	3.18
REP AERSR221059	QC																				
AERSR221060	Stream Sedim	0.5	0.04	3.9	1.61	<0.1	0.10	0.92	10.9	0.8	<0.05	5.1	10.45	40.9	0.03	<1	0.9	14.6	5.01	19.11	3.60
REP AERSR221060	QC																				
AERSR221074	Stream Sedim	0.7	0.03	2.8	1.25	<0.1	0.07	0.17	11.3	0.4	<0.05	2.3	10.76	24.8	0.02	1	0.9	17.1	3.61	14.77	3.20
REP AERSR221074	QC	0.6	0.04	2.9	1.31	<0.1	0.07	0.18	11.2	0.5	<0.05	2.3	10.63	25.4	0.03	1	0.7	18.2	3.67	14.73	3.35
AERSR221076	Stream Sedim	0.3	0.04	4.2	2.54	<0.1	0.09	0.04	17.7	0.9	<0.05	1.7	8.70	38.9	0.04	1	1.4	17.9	5.52	21.89	4.57
REP AERSR221076	QC																				
AERSR221095	Stream Sedim	1.2	0.04	2.9	1.18	<0.1	0.06	0.15	10.9	0.4	<0.05	2.3	8.78	15.9	0.02	5	0.6	16.9	2.33	9.76	2.40
REP AERSR221095	QC																				
AERSR221096	Stream Sedim	1.7	0.06	1.7	1.59	<0.1	0.03	0.09	11.7	0.4	<0.05	1.1	11.46	15.3	0.03	11	0.4	9.2	2.46	10.88	2.78
REP AERSR221096	QC																				
AERSR221109	Stream Sedim	1.1	0.04	3.4	1.02	<0.1	0.07	0.12	9.6	0.4	<0.05	2.1	11.99	15.8	0.03	3	0.7	19.3	2.25	10.61	2.96



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Method Analyte Unit MDL		AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Pd	Pt
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb
		0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	10	2
AERSR221034	Stream Sedim	0.76	3.32	0.42	2.25	0.38	0.97	0.12	0.70	0.09	<10	<2
AERSR221072	Rock Pulp	0.51	1.58	0.18	1.05	0.18	0.50	0.06	0.42	0.06	43	24
AERSR221110	Stream Sedim	0.62	2.72	0.37	1.94	0.33	0.77	0.09	0.51	0.07	<10	<2
Pulp Duplicates												
AERSR221002	Stream Sedim	0.64	2.89	0.36	2.01	0.34	0.86	0.10	0.59	0.08	<10	<2
REP AERSR221002	QC	0.64	2.87	0.35	2.02	0.34	0.85	0.10	0.59	0.08	<10	<2
AERSR221005	Stream Sedim	0.58	2.37	0.29	1.61	0.27	0.68	0.08	0.51	0.07	<10	<2
REP AERSR221005	QC											
AERSR221024	Stream Sedim	0.62	2.78	0.35	1.96	0.34	0.83	0.10	0.57	0.08	<10	<2
REP AERSR221024	QC											
AERSR221025	Stream Sedim	0.65	2.97	0.37	2.07	0.35	0.87	0.10	0.60	0.08	<10	<2
REP AERSR221025	QC											
AERSR221037	Stream Sedim	0.66	3.02	0.39	2.16	0.36	0.89	0.11	0.62	0.08	<10	<2
REP AERSR221037	QC	0.65	2.96	0.38	2.13	0.36	0.88	0.11	0.61	0.08	<10	<2
AERSR221040	Stream Sedim	0.65	2.86	0.36	1.91	0.30	0.72	0.08	0.46	0.06	<10	<2
REP AERSR221040	QC											
AERSR221059	Stream Sedim	0.70	2.87	0.35	2.01	0.33	0.86	0.10	0.64	0.09	<10	<2
REP AERSR221059	QC											
AERSR221060	Stream Sedim	0.77	2.92	0.36	1.97	0.34	0.87	0.11	0.67	0.09	<10	<2
REP AERSR221060	QC											
AERSR221074	Stream Sedim	0.73	2.76	0.41	2.25	0.39	0.98	0.11	0.73	0.09	<10	<2
REP AERSR221074	QC	0.65	3.02	0.43	2.31	0.40	0.98	0.11	0.76	0.09	<10	<2
AERSR221076	Stream Sedim	0.79	3.54	0.47	2.10	0.36	0.76	0.10	0.66	0.08	<10	<2
REP AERSR221076	QC											
AERSR221095	Stream Sedim	0.51	2.39	0.32	1.61	0.29	0.76	0.09	0.61	0.07	<10	<2
REP AERSR221095	QC											
AERSR221096	Stream Sedim	0.61	3.07	0.41	2.07	0.38	0.95	0.11	0.65	0.07	<10	<2
REP AERSR221096	QC											
AERSR221109	Stream Sedim	0.71	3.28	0.44	2.34	0.40	0.95	0.11	0.61	0.08	<10	<2



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QUALITY CONTROL REPORT

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		WGHT	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100
		Wgt	Ba	Be	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	La	Ce
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	1	1	0.2	0.1	0.5	0.1	0.1	0.1	1	0.5	0.1	0.2	0.1	8	0.5	0.1	0.1	0.1	0.1
REP AERSR221109	QC																				
AERSR221112	Stream Sedim	2.56	820	<1	8.1	5.0	13.0	9.3	11.8	84.5	2	105.6	0.8	9.1	3.7	155	1.3	376.9	24.5	30.6	58.0
REP AERSR221112	QC																				
Reference Materials																					
STD BVGEO01	Standard																				
STD BVGEO01	Standard																				
STD BVGEO01	Standard																				
STD BVGEO01	Standard																				
STD BVGEO01	Standard																				
STD DS11	Standard																				
STD DS11	Standard																				
STD DS11	Standard																				
STD DS11	Standard																				
STD DS11	Standard																				
STD OREAS262	Standard																				
STD OREAS262	Standard																				
STD OREAS262	Standard																				
STD OREAS262	Standard																				
STD OREAS262	Standard																				
STD OREAS262	Standard																				
STD OREAS262	Standard																				
STD OREAS262	Standard																				
STD OREAS262	Standard																				
STD SO-19	Standard		487	23	24.8	4.9	17.4	3.2	67.6	20.3	20	334.7	5.1	14.9	20.8	164	9.4	118.3	35.1	76.6	166.7
STD SO-19	Standard		478	20	23.6	4.8	16.3	3.3	64.4	19.4	19	329.2	4.9	14.2	20.3	165	9.9	114.1	34.8	75.2	164.0
STD SO-19	Standard		464	17	23.5	4.7	17.8	3.3	65.9	19.5	18	322.3	4.9	14.0	21.4	159	10.1	109.6	35.4	72.8	162.1
STD SO-19	Standard		488	19	24.2	4.4	18.0	3.4	67.5	20.5	20	362.1	5.0	13.6	21.3	178	10.7	114.5	37.8	77.4	166.2
STD SO-19	Standard																				



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		LF100 Pr ppm 0.02	LF100 Nd ppm 0.3	LF100 Sm ppm 0.05	LF100 Eu ppm 0.02	LF100 Gd ppm 0.05	LF100 Tb ppm 0.01	LF100 Dy ppm 0.05	LF100 Ho ppm 0.02	LF100 Er ppm 0.03	LF100 Tm ppm 0.01	LF100 Yb ppm 0.05	LF100 Lu ppm 0.01	AQ200 Mo ppm 0.1	AQ200 Cu ppm 0.1	AQ200 Pb ppm 0.1	AQ200 Zn ppm 1	AQ200 Ni ppm 0.1	AQ200 As ppm 0.5	AQ200 Cd ppm 0.1	AQ200 Sb ppm 0.1
REP AERSR221109	QC																				
AERSR221112	Stream Sedim	6.77	25.9	4.62	0.99	4.49	0.67	4.35	0.85	2.60	0.37	2.56	0.38	0.9	15.9	11.4	78	23.6	6.5	0.4	0.2
REP AERSR221112	QC													1.0	16.3	10.9	76	23.0	7.0	0.4	0.2
Reference Materials																					
STD BVGEO01	Standard													10.1	4485.2	193.1	1805	164.5	126.1	5.9	2.0
STD BVGEO01	Standard													10.3	4422.6	190.0	1783	160.6	121.3	6.5	2.1
STD BVGEO01	Standard													9.9	4279.3	193.2	1682	156.8	116.6	6.1	2.4
STD BVGEO01	Standard													10.3	4308.5	179.1	1771	159.0	128.4	6.1	2.5
STD BVGEO01	Standard													10.8	4336.1	194.4	1677	151.6	121.9	6.6	2.6
STD DS11	Standard																				
STD DS11	Standard																				
STD DS11	Standard																				
STD DS11	Standard																				
STD DS11	Standard																				
STD OREAS262	Standard																				
STD OREAS262	Standard																				
STD OREAS262	Standard																				
STD OREAS262	Standard																				
STD OREAS262	Standard													0.6	109.5	56.3	148	63.4	35.9	0.6	2.7
STD OREAS262	Standard													0.6	113.9	58.0	158	61.4	36.7	0.6	3.2
STD OREAS262	Standard													0.6	104.9	54.6	147	62.2	35.7	0.6	3.1
STD OREAS262	Standard													0.9	113.2	54.0	162	67.7	35.6	0.6	2.8
STD OREAS262	Standard																				
STD OREAS262	Standard													0.6	112.8	58.6	149	63.0	38.5	0.7	3.2
STD SO-19	Standard	20.31	78.2	13.71	3.83	10.70	1.43	7.42	1.46	4.17	0.54	3.53	0.52								
STD SO-19	Standard	19.79	75.6	13.39	3.70	10.80	1.43	7.15	1.37	3.90	0.53	3.56	0.50								
STD SO-19	Standard	19.71	77.7	12.97	3.65	10.74	1.38	7.59	1.40	3.86	0.54	3.52	0.51								
STD SO-19	Standard	20.81	80.4	13.74	3.91	10.66	1.46	7.67	1.41	4.16	0.54	3.73	0.57								
STD SO-19	Standard																				



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		AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300
		Bi	Ag	Au	Hg	Tl	Se	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr
		ppm	ppm	ppb	ppm	ppm	ppm	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm
		0.1	0.1	0.5	0.01	0.1	0.5	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2
REP AERSR221109	QC																				
AERSR221112	Stream Sedim	0.1	0.2	1.8	0.05	0.1	0.6	60.33	11.34	3.34	3.62	5.00	0.55	2.11	0.62	0.18	0.04	0.013	844	25	99
REP AERSR221112	QC	0.1	0.2	0.9	0.05	0.1	0.7														
Reference Materials																					
STD BVGEO01	Standard	23.8	2.6	213.7	0.11	0.6	5.8														
STD BVGEO01	Standard	23.1	2.7	217.5	0.08	0.6	4.8														
STD BVGEO01	Standard	24.7	2.6	232.8	0.12	0.7	5.3														
STD BVGEO01	Standard	23.2	2.5	204.5	0.09	0.6	5.0														
STD BVGEO01	Standard	25.3	2.7	220.1	0.09	0.6	4.3														
STD DS11	Standard																				
STD DS11	Standard																				
STD DS11	Standard																				
STD DS11	Standard																				
STD DS11	Standard																				
STD OREAS262	Standard																				
STD OREAS262	Standard																				
STD OREAS262	Standard																				
STD OREAS262	Standard																				
STD OREAS262	Standard	0.8	0.5	61.3	0.16	0.4	0.7														
STD OREAS262	Standard	0.9	0.5	55.3	0.15	0.5	0.7														
STD OREAS262	Standard	0.9	0.5	56.3	0.18	0.5	<0.5														
STD OREAS262	Standard	0.9	0.5	51.2	0.16	0.4	0.5														
STD OREAS262	Standard																				
STD OREAS262	Standard	1.0	0.5	58.4	0.16	0.4	<0.5														
STD SO-19	Standard																				
STD SO-19	Standard																				
STD SO-19	Standard																				
STD SO-19	Standard																				
STD SO-19	Standard							60.41	13.99	7.42	2.92	5.94	4.07	1.32	0.70	0.33	0.13	0.497	478	471	317



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		LF300	LF300	LF300	LF300	LF300	LF300	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Zr	Y	Nb	Sc	LOI	Sum	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr
		ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm
		5	3	5	1	-5.1	0.01	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5
REP AERSR221109	QC							1.38	23.25	11.57	100.6	184	32.7	9.8	1012	2.45	9.1	0.6	1.1	3.0	45.0
AERSR221112	Stream Sedim	390	25	13	11	12.6	99.88	0.90	17.09	10.77	79.1	192	24.4	8.1	312	1.81	7.2	0.6	0.9	2.8	36.4
REP AERSR221112	QC																				
Reference Materials																					
STD BVGEO01	Standard																				
STD BVGEO01	Standard																				
STD BVGEO01	Standard																				
STD BVGEO01	Standard																				
STD BVGEO01	Standard																				
STD DS11	Standard							14.18	141.81	124.45	340.1	1633	78.2	13.4	1002	2.99	41.7	2.2	60.2	6.7	66.4
STD DS11	Standard							14.35	146.04	130.97	348.4	1718	79.0	13.7	1017	3.08	43.3	2.4	109.2	7.3	66.7
STD DS11	Standard							14.21	144.80	129.94	331.1	1688	78.5	13.6	1014	3.07	42.0	2.4	71.1	7.2	63.2
STD DS11	Standard							14.77	143.96	142.20	332.8	1826	79.1	13.9	1014	3.09	46.3	2.7	63.5	8.5	67.0
STD DS11	Standard							14.93	140.86	133.30	322.1	1730	82.4	14.2	1013	3.08	42.8	2.6	71.1	7.8	65.1
STD OREAS262	Standard							0.59	107.31	51.64	146.5	428	61.1	25.8	518	3.10	33.5	1.1	49.6	8.4	32.6
STD OREAS262	Standard							0.64	114.29	53.45	159.1	456	63.9	27.4	547	3.25	36.1	1.1	52.8	8.7	34.2
STD OREAS262	Standard							0.61	112.50	55.19	149.4	462	61.8	26.7	531	3.20	35.2	1.2	53.1	8.9	34.4
STD OREAS262	Standard							0.61	112.24	56.98	145.6	485	63.8	27.4	527	3.20	38.7	1.2	53.1	9.6	35.5
STD OREAS262	Standard																				
STD OREAS262	Standard																				
STD OREAS262	Standard																				
STD OREAS262	Standard							0.69	110.23	56.55	150.9	464	67.0	28.6	532	3.24	36.2	1.2	60.1	9.4	34.1
STD OREAS262	Standard																				
STD SO-19	Standard																				
STD SO-19	Standard																				
STD SO-19	Standard																				
STD SO-19	Standard																				
STD SO-19	Standard	121	35	71	27	1.9	99.85														



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QUALITY CONTROL REPORT

VAN22003106.1

		AQ251 Cd ppm 0.01	AQ251 Sb ppm 0.02	AQ251 Bi ppm 0.02	AQ251 V ppm 1	AQ251 Ca % 0.01	AQ251 P % 0.001	AQ251 La ppm 0.5	AQ251 Cr ppm 0.5	AQ251 Mg % 0.01	AQ251 Ba ppm 0.5	AQ251 Ti % 0.001	AQ251 B ppm 1	AQ251 Al % 0.01	AQ251 Na % 0.001	AQ251 K % 0.01	AQ251 W ppm 0.1	AQ251 Sc ppm 0.1	AQ251 Ti ppm 0.02	AQ251 S % 0.02	AQ251 Hg ppb 5
REP AERSR221109	QC	0.43	0.29	0.16	29	0.53	0.077	6.8	19.7	0.38	339.7	0.001	3	1.18	0.007	0.12	<0.1	4.2	0.14	0.04	70
AERSR221112	Stream Sedim	0.40	0.27	0.14	22	3.21	0.068	5.0	14.9	1.76	260.2	0.001	4	0.96	0.008	0.12	<0.1	3.4	0.14	0.20	60
REP AERSR221112	QC																				
Reference Materials																					
STD BVGEO01	Standard																				
STD BVGEO01	Standard																				
STD BVGEO01	Standard																				
STD BVGEO01	Standard																				
STD BVGEO01	Standard																				
STD DS11	Standard	2.23	7.30	10.47	49	1.05	0.066	16.6	57.4	0.83	337.9	0.090	7	1.15	0.074	0.40	2.6	3.1	4.53	0.27	241
STD DS11	Standard	2.17	7.38	11.00	51	1.07	0.070	17.9	58.9	0.85	341.1	0.095	7	1.19	0.077	0.41	2.8	3.2	4.79	0.27	249
STD DS11	Standard	2.25	6.89	10.72	47	1.04	0.069	17.4	59.5	0.83	343.2	0.094	7	1.16	0.077	0.39	2.7	3.1	4.71	0.28	247
STD DS11	Standard	2.53	7.49	12.01	47	1.05	0.068	19.4	61.0	0.84	388.9	0.096	7	1.18	0.079	0.40	2.9	3.6	5.00	0.28	301
STD DS11	Standard	2.34	7.63	10.84	46	1.03	0.063	18.3	59.2	0.84	341.4	0.095	7	1.18	0.082	0.40	2.8	3.2	4.97	0.28	325
STD OREAS262	Standard	0.56	3.57	0.87	22	2.82	0.038	14.3	41.7	1.16	224.2	0.003	4	1.31	0.066	0.31	0.1	3.0	0.44	0.25	147
STD OREAS262	Standard	0.60	4.05	0.90	24	2.93	0.041	17.1	43.5	1.20	241.9	0.003	4	1.40	0.069	0.33	0.2	3.2	0.45	0.26	162
STD OREAS262	Standard	0.63	3.57	0.92	21	2.85	0.037	15.9	42.9	1.16	235.2	0.003	4	1.32	0.070	0.31	0.2	3.1	0.47	0.27	147
STD OREAS262	Standard	0.68	3.48	1.05	21	2.88	0.039	17.5	46.1	1.16	258.0	0.003	4	1.36	0.069	0.32	0.1	3.5	0.46	0.26	182
STD OREAS262	Standard																				
STD OREAS262	Standard																				
STD OREAS262	Standard																				
STD OREAS262	Standard																				
STD OREAS262	Standard	0.65	4.85	1.00	21	2.87	0.037	17.5	45.9	1.17	241.9	0.003	4	1.35	0.069	0.32	0.2	3.2	0.49	0.27	157
STD OREAS262	Standard																				
STD SO-19	Standard																				
STD SO-19	Standard																				
STD SO-19	Standard																				
STD SO-19	Standard																				
STD SO-19	Standard																				



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QUALITY CONTROL REPORT

VAN22003106.1

		AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Se	Te	Ga	Cs	Ge	Hf	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pr	Nd	Sm
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm
		0.1	0.02	0.1	0.02	0.1	0.02	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	0.02	0.02	0.02
REP AERSR221109	QC	0.9	0.04	3.5	1.03	<0.1	0.07	0.11	9.7	0.4	<0.05	2.1	11.75	16.2	0.03	2	0.7	19.2	2.30	10.57	3.02
AERSR221112	Stream Sedim	1.0	0.05	2.6	1.20	<0.1	0.04	0.08	9.5	0.3	<0.05	1.8	10.40	11.5	0.03	4	0.6	15.9	1.76	8.38	2.48
REP AERSR221112	QC																				
Reference Materials																					
STD BVGEO01	Standard																				
STD BVGEO01	Standard																				
STD BVGEO01	Standard																				
STD BVGEO01	Standard																				
STD BVGEO01	Standard																				
STD DS11	Standard	2.4	4.68	4.8	2.56	<0.1	0.06	1.47	33.7	1.7	<0.05	3.1	8.32	34.4	0.22	42	0.7	22.7	3.47	13.22	2.40
STD DS11	Standard	2.3	4.84	4.8	2.70	<0.1	0.07	1.62	33.8	1.7	<0.05	3.3	8.59	36.3	0.22	41	0.7	23.3	3.72	14.39	2.57
STD DS11	Standard	2.5	4.85	5.0	2.71	<0.1	0.08	1.52	32.8	1.6	<0.05	3.3	7.97	34.7	0.22	45	0.7	22.1	3.71	13.64	2.43
STD DS11	Standard	2.1	4.74	5.3	3.01	<0.1	0.08	1.67	35.3	2.0	<0.05	3.5	8.16	38.5	0.26	50	0.6	25.4	4.42	16.21	2.78
STD DS11	Standard	2.3	4.62	5.1	2.86	<0.1	0.07	1.54	32.6	1.7	<0.05	3.4	8.06	35.3	0.23	46	0.7	21.6	3.89	14.12	2.53
STD OREAS262	Standard	0.7	0.24	3.7	2.27	<0.1	0.25	<0.02	18.6	0.5	<0.05	11.7	10.23	29.5	0.03	<1	1.1	17.6	3.33	13.32	2.89
STD OREAS262	Standard	0.6	0.27	4.0	2.58	<0.1	0.29	<0.02	20.4	0.6	<0.05	13.3	11.24	34.5	0.03	<1	1.2	17.6	3.92	15.64	3.27
STD OREAS262	Standard	0.7	0.22	3.9	2.51	<0.1	0.29	<0.02	19.0	0.5	<0.05	11.9	10.63	32.0	0.03	1	1.1	17.6	3.71	14.40	3.13
STD OREAS262	Standard	0.4	0.24	4.3	2.70	<0.1	0.23	<0.02	20.7	0.6	<0.05	9.9	10.95	35.0	0.03	1	1.4	18.1	4.33	16.09	3.53
STD OREAS262	Standard																				
STD OREAS262	Standard																				
STD OREAS262	Standard																				
STD OREAS262	Standard																				
STD OREAS262	Standard	0.6	0.26	4.1	2.79	<0.1	0.33	<0.02	19.2	0.5	<0.05	14.2	10.94	33.2	0.03	<1	1.1	16.7	4.04	15.10	3.23
STD OREAS262	Standard																				
STD SO-19	Standard																				
STD SO-19	Standard																				
STD SO-19	Standard																				
STD SO-19	Standard																				
STD SO-19	Standard																				



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QUALITY CONTROL REPORT

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		AQ251 Eu ppm 0.02	AQ251 Gd ppm 0.02	AQ251 Tb ppm 0.02	AQ251 Dy ppm 0.02	AQ251 Ho ppm 0.02	AQ251 Er ppm 0.02	AQ251 Tm ppm 0.02	AQ251 Yb ppm 0.02	AQ251 Lu ppm 0.02	AQ251 Pd ppb 10	AQ251 Pt ppb 2
REP AERSR221109	QC	0.72	3.34	0.45	2.33	0.41	0.96	0.11	0.63	0.08	<10	<2
AERSR221112	Stream Sedim	0.60	2.87	0.38	2.10	0.35	0.84	0.10	0.57	0.07	<10	<2
REP AERSR221112	QC											
Reference Materials												
STD BVGEO01	Standard											
STD BVGEO01	Standard											
STD BVGEO01	Standard											
STD BVGEO01	Standard											
STD BVGEO01	Standard											
STD DS11	Standard	0.44	1.96	0.25	1.44	0.26	0.74	0.10	0.67	0.09	99	157
STD DS11	Standard	0.47	2.07	0.26	1.53	0.28	0.78	0.11	0.74	0.10	92	162
STD DS11	Standard	0.45	1.99	0.26	1.51	0.28	0.76	0.10	0.70	0.10	97	169
STD DS11	Standard	0.53	2.31	0.30	1.83	0.29	0.89	0.12	0.81	0.11	76	181
STD DS11	Standard	0.45	2.00	0.28	1.50	0.26	0.77	0.09	0.68	0.08	97	166
STD OREAS262	Standard	0.56	2.59	0.34	1.93	0.35	0.94	0.12	0.79	0.11	<10	<2
STD OREAS262	Standard	0.62	2.89	0.37	2.11	0.38	1.02	0.13	0.83	0.12	<10	<2
STD OREAS262	Standard	0.60	2.81	0.37	2.07	0.38	1.02	0.13	0.83	0.12	<10	<2
STD OREAS262	Standard	0.70	2.93	0.42	2.17	0.42	1.13	0.14	0.90	0.13	<10	<2
STD OREAS262	Standard											
STD OREAS262	Standard											
STD OREAS262	Standard											
STD OREAS262	Standard											
STD OREAS262	Standard	0.60	2.85	0.43	2.12	0.39	1.05	0.13	0.82	0.11	<10	<2
STD OREAS262	Standard											
STD SO-19	Standard											
STD SO-19	Standard											
STD SO-19	Standard											
STD SO-19	Standard											
STD SO-19	Standard											



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QUALITY CONTROL REPORT

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		WGHT	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	
		Wgt	Ba	Be	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	La	Ce
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	1	1	0.2	0.1	0.5	0.1	0.1	0.1	1	0.5	0.1	0.2	0.1	8	0.5	0.1	0.1	0.1	0.1
STD SO-19	Standard																				
STD SO-19	Standard																				
STD SO-19	Standard																				
STD SO-19	Standard		474	21	23.8	5.0	18.0	3.0	69.2	20.1	19	326.3	4.5	13.1	19.9	169	8.7	114.6	34.7	72.3	163.0
STD SO-19	Standard		466	25	23.1	4.9	15.2	3.2	66.7	19.3	20	327.3	4.5	13.4	20.1	162	9.9	111.5	35.1	72.5	156.8
STD SO-19	Standard		499	23	24.2	4.9	18.3	3.3	66.3	20.0	19	339.0	4.9	13.6	19.2	164	8.7	117.5	35.9	75.3	163.0
STD SO-19	Standard		471	14	22.3	4.4	17.3	3.1	66.2	20.1	18	332.9	4.9	13.1	19.7	169	10.3	115.4	35.5	72.8	158.5
STD SO-19	Standard																				
STD SO-19	Standard																				
STD SO-19	Standard																				
STD SO-19	Standard																				
STD SO-19	Standard		469	24	21.9	4.4	16.3	3.0	65.3	19.5	23	319.2	4.6	13.6	18.9	156	10.0	111.6	35.4	68.4	162.0
STD SO-19	Standard		462	17	24.1	4.4	16.3	3.0	67.8	19.3	19	318.2	4.9	14.1	19.8	162	9.9	111.0	35.8	70.0	158.0
STD SO-19 Expected			486	20	24	4.5	17.5	3.1	68.5	19.5	19	317.1	4.9	13	19.4	165	9.8	112	35.5	71.3	161
STD DS11 Expected																					
STD BVGEO01 Expected																					
STD OREAS262 Expected																					
BLK	Blank		<1	<1	0.2	<0.1	<0.5	<0.1	<0.1	<0.1	<1	1.7	<0.1	<0.2	<0.1	<8	<0.5	<0.1	<0.1	<0.1	<0.1
BLK	Blank		<1	2	<0.2	<0.1	<0.5	<0.1	<0.1	0.2	<1	1.2	<0.1	<0.2	<0.1	<8	<0.5	0.8	<0.1	<0.1	<0.1
BLK	Blank																				
BLK	Blank																				
BLK	Blank		<1	<1	<0.2	<0.1	<0.5	<0.1	<0.1	<0.1	<1	0.6	<0.1	<0.2	<0.1	<8	<0.5	2.5	<0.1	<0.1	<0.1
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank		<1	<1	0.3	<0.1	<0.5	<0.1	0.2	<0.1	<1	<0.5	<0.1	<0.2	<0.1	<8	<0.5	0.4	<0.1	<0.1	<0.1
BLK	Blank																				



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QUALITY CONTROL REPORT

VAN22003106.1

		LF100 Pr ppm 0.02	LF100 Nd ppm 0.3	LF100 Sm ppm 0.05	LF100 Eu ppm 0.02	LF100 Gd ppm 0.05	LF100 Tb ppm 0.01	LF100 Dy ppm 0.05	LF100 Ho ppm 0.02	LF100 Er ppm 0.03	LF100 Tm ppm 0.01	LF100 Yb ppm 0.05	LF100 Lu ppm 0.01	AQ200 Mo ppm 0.1	AQ200 Cu ppm 0.1	AQ200 Pb ppm 0.1	AQ200 Zn ppm 1	AQ200 Ni ppm 0.1	AQ200 As ppm 0.5	AQ200 Cd ppm 0.1	AQ200 Sb ppm 0.1
STD SO-19	Standard																				
STD SO-19	Standard																				
STD SO-19	Standard																				
STD SO-19	Standard	19.55	76.2	13.49	3.69	10.69	1.42	7.59	1.34	3.87	0.52	3.53	0.53								
STD SO-19	Standard	19.38	76.0	13.23	3.67	10.46	1.35	7.24	1.36	3.59	0.53	3.45	0.51								
STD SO-19	Standard	19.89	76.4	13.33	3.60	10.48	1.42	7.72	1.37	3.92	0.55	3.46	0.53								
STD SO-19	Standard	19.18	75.4	12.40	3.63	10.41	1.39	7.34	1.37	4.00	0.51	3.26	0.55								
STD SO-19	Standard																				
STD SO-19	Standard																				
STD SO-19	Standard																				
STD SO-19	Standard																				
STD SO-19	Standard	19.06	72.2	12.66	3.63	10.03	1.35	7.41	1.26	3.63	0.50	3.27	0.51								
STD SO-19	Standard	19.01	75.3	12.86	3.57	10.49	1.34	7.02	1.29	3.71	0.54	3.61	0.50								
STD SO-19 Expected		19.4	75.7	13.7	3.81	10.53	1.41	7.5	1.39	3.78	0.55	3.55	0.53								
STD DS11 Expected																					
STD BVGE001 Expected														10.8	4415	187	1741	163	121	6.5	2.2
STD OREAS262 Expected														0.68	118	56	154	62	35.8	0.61	3.39
BLK	Blank	<0.02	<0.3	<0.05	<0.02	<0.05	<0.01	<0.05	<0.02	<0.03	<0.01	<0.05	<0.01								
BLK	Blank	<0.02	<0.3	<0.05	<0.02	<0.05	<0.01	<0.05	<0.02	<0.03	<0.01	<0.05	<0.01								
BLK	Blank																				
BLK	Blank																				
BLK	Blank	<0.02	<0.3	<0.05	<0.02	<0.05	<0.01	<0.05	<0.02	<0.03	<0.01	<0.05	<0.01								
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank	<0.02	<0.3	<0.05	<0.02	<0.05	<0.01	<0.05	<0.02	<0.03	<0.01	<0.05	<0.01								
BLK	Blank																				



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QUALITY CONTROL REPORT

VAN22003106.1

		AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300
		Bi	Ag	Au	Hg	Tl	Se	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr
		ppm	ppm	ppb	ppm	ppm	ppm	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm
		0.1	0.1	0.5	0.01	0.1	0.5	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2
STD SO-19	Standard							60.58	13.84	7.49	2.91	5.87	4.07	1.32	0.70	0.33	0.13	0.498	481	480	316
STD SO-19	Standard							60.60	13.85	7.46	2.91	5.91	4.04	1.29	0.71	0.34	0.13	0.507	483	482	319
STD SO-19	Standard							61.00	13.64	7.34	2.86	5.86	4.05	1.30	0.70	0.35	0.13	0.512	494	497	313
STD SO-19	Standard																				
STD SO-19	Standard																				
STD SO-19	Standard																				
STD SO-19	Standard																				
STD SO-19	Standard							60.10	14.08	7.50	2.94	6.05	4.07	1.35	0.70	0.33	0.13	0.493	484	473	319
STD SO-19	Standard							60.56	13.94	7.37	2.88	5.95	4.06	1.33	0.70	0.33	0.13	0.491	476	468	317
STD SO-19	Standard							60.70	13.88	7.38	2.88	5.99	4.00	1.27	0.70	0.31	0.13	0.491	473	469	314
STD SO-19	Standard							60.68	13.91	7.42	2.89	5.92	4.01	1.26	0.70	0.32	0.13	0.492	472	470	316
STD SO-19	Standard																				
STD SO-19	Standard																				
STD SO-19 Expected								61.13	13.95	7.47	2.88	6	4.11	1.29	0.69	0.32	0.13	0.5	486	470	317.1
STD DS11 Expected																					
STD BVGEO01 Expected		25.6	2.53	219	0.1	0.62	4.84														
STD OREAS262 Expected		1.03	0.45	65	0.17	0.47	0.4														
BLK	Blank																				
BLK	Blank																				
BLK	Blank							0.06	0.01	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<5	<20	<2
BLK	Blank							0.02	0.02	0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<5	<20	<2
BLK	Blank																				
BLK	Blank							<0.01	<0.01	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<5	<20	<2
BLK	Blank							<0.01	<0.01	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<5	<20	<2
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				



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QUALITY CONTROL REPORT

VAN22003106.1

		LF300	LF300	LF300	LF300	LF300	LF300	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Zr	Y	Nb	Sc	LOI	Sum	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr
		ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm
		5	3	5	1	-5.1	0.01	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5
STD SO-19	Standard	121	35	73	27	1.9	99.86														
STD SO-19	Standard	117	35	76	28	1.9	99.87														
STD SO-19	Standard	117	37	74	28	1.9	99.86														
STD SO-19	Standard																				
STD SO-19	Standard																				
STD SO-19	Standard																				
STD SO-19	Standard																				
STD SO-19	Standard	133	35	72	27	1.9	99.86														
STD SO-19	Standard	130	35	70	26	1.9	99.86														
STD SO-19	Standard	120	35	70	27	1.9	99.85														
STD SO-19	Standard	120	35	73	27	1.9	99.85														
STD SO-19	Standard																				
STD SO-19	Standard																				
STD SO-19 Expected		112	35.5	68.5	27																
STD DS11 Expected								14.6	149	138	345	1710	77.7	14.2	1055	3.1	42.8	2.59	79	7.65	67.3
STD BVGEO01 Expected																					
STD OREAS262 Expected								0.68	118	56	154	450	62	26.9	530	3.284	35.8	1.22	65	9.33	36
BLK	Blank																				
BLK	Blank																				
BLK	Blank	<5	<3	<5	<1	0.0	0.10														
BLK	Blank	<5	<3	<5	<1	0.0	0.08														
BLK	Blank																				
BLK	Blank	<5	<3	<5	<1	0.0	<0.01														
BLK	Blank	<5	<3	<5	<1	0.0	<0.01														
BLK	Blank							<0.01	0.02	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5
BLK	Blank							<0.01	0.05	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5
BLK	Blank							<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5
BLK	Blank																				
BLK	Blank							<0.01	<0.01	<0.01	0.1	<2	<0.1	<0.1	<1	<0.01	0.2	<0.1	<0.2	<0.1	<0.5



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		AQ251 Cd ppm 0.01	AQ251 Sb ppm 0.02	AQ251 Bi ppm 0.02	AQ251 V ppm 1	AQ251 Ca % 0.01	AQ251 P % 0.001	AQ251 La ppm 0.5	AQ251 Cr ppm 0.5	AQ251 Mg % 0.01	AQ251 Ba ppm 0.5	AQ251 Ti % 0.001	AQ251 B ppm 1	AQ251 Al % 0.01	AQ251 Na % 0.001	AQ251 K % 0.01	AQ251 W ppm 0.1	AQ251 Sc ppm 0.1	AQ251 Ti ppm 0.02	AQ251 S % 0.02	AQ251 Hg ppb 5
STD SO-19	Standard																				
STD SO-19	Standard																				
STD SO-19	Standard																				
STD SO-19	Standard																				
STD SO-19	Standard																				
STD SO-19	Standard																				
STD SO-19	Standard																				
STD SO-19	Standard																				
STD SO-19	Standard																				
STD SO-19	Standard																				
STD SO-19	Standard																				
STD SO-19	Standard																				
STD SO-19	Standard																				
STD SO-19 Expected																					
STD DS11 Expected		2.37	8.74	12.2	50	1.063	0.0701	18.6	61.5	0.85	385	0.0976		1.1795	0.0762	0.4	2.9	3.4	4.9	0.2835	260
STD BVGEO01 Expected																					
STD OREAS262 Expected		0.61	5.06	1.03	22.5	2.98	0.04	15.9	41.7	1.17	248	0.0027	4	1.3	0.071	0.312	0.2	3.24	0.47	0.253	170
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank	<0.01	<0.02	<0.02	<1	<0.01	<0.001	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5
BLK	Blank	<0.01	<0.02	<0.02	<1	<0.01	<0.001	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5
BLK	Blank	<0.01	<0.02	<0.02	<1	<0.01	<0.001	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5
BLK	Blank																				
BLK	Blank	<0.01	<0.02	<0.02	<1	<0.01	<0.001	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5



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QUALITY CONTROL REPORT

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		AQ251 Se ppm 0.1	AQ251 Te ppm 0.02	AQ251 Ga ppm 0.1	AQ251 Cs ppm 0.02	AQ251 Ge ppm 0.1	AQ251 Hf ppm 0.02	AQ251 Nb ppm 0.02	AQ251 Rb ppm 0.1	AQ251 Sn ppm 0.1	AQ251 Ta ppm 0.05	AQ251 Zr ppm 0.1	AQ251 Y ppm 0.01	AQ251 Ce ppm 0.1	AQ251 In ppm 0.02	AQ251 Re ppb 1	AQ251 Be ppm 0.1	AQ251 Li ppm 0.1	AQ251 Pr ppm 0.02	AQ251 Nd ppm 0.02	AQ251 Sm ppm 0.02
STD SO-19	Standard																				
STD SO-19	Standard																				
STD SO-19	Standard																				
STD SO-19	Standard																				
STD SO-19	Standard																				
STD SO-19	Standard																				
STD SO-19	Standard																				
STD SO-19	Standard																				
STD SO-19	Standard																				
STD SO-19	Standard																				
STD SO-19	Standard																				
STD SO-19	Standard																				
STD SO-19	Standard																				
STD SO-19 Expected																					
STD DS11 Expected		2.2	4.56	5.1	2.88	0.08	0.06	1.53	33.6	1.8		3.1	7.82	37	0.24	50	0.67	23.3	4	14.9	2.68
STD BVGEO01 Expected																					
STD OREAS262 Expected		0.4	0.23	4.1	2.8		0.27		18.6	0.5		11.7	11.2	32	0.033		1.14	17.8	4	15	3.3
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<0.02	<0.02	<0.02
BLK	Blank	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<0.02	<0.02	<0.02
BLK	Blank	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<0.02	<0.02	<0.02
BLK	Blank																				
BLK	Blank	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<0.02	<0.02	<0.02



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QUALITY CONTROL REPORT

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		AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Pd	Pt
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb
		0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	10	2
STD SO-19	Standard											
STD SO-19	Standard											
STD SO-19	Standard											
STD SO-19	Standard											
STD SO-19	Standard											
STD SO-19	Standard											
STD SO-19	Standard											
STD SO-19	Standard											
STD SO-19	Standard											
STD SO-19	Standard											
STD SO-19	Standard											
STD SO-19	Standard											
STD SO-19	Standard											
STD SO-19 Expected												
STD DS11 Expected		0.54	2.22	0.29	1.57	0.29	0.81	0.11	0.75	0.11	100	172
STD BVGE001 Expected												
STD OREAS262 Expected		0.72	2.93	0.43	2.29	0.41	1.07	0.14	0.9	0.13		
BLK	Blank											
BLK	Blank											
BLK	Blank											
BLK	Blank											
BLK	Blank											
BLK	Blank											
BLK	Blank											
BLK	Blank											
BLK	Blank	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<10	<2
BLK	Blank	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<10	<2
BLK	Blank	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<10	<2
BLK	Blank											
BLK	Blank	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<10	<2



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QUALITY CONTROL REPORT

VAN22003106.1

		WGHT	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100
		Wgt	Ba	Be	Co	Cs	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	La	Ce
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	1	1	0.2	0.1	0.5	0.1	0.1	0.1	1	0.5	0.1	0.2	0.1	8	0.5	0.1	0.1	0.1	0.1
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				



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		LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Mo	Cu	Pb	Zn	Ni	As	Cd	Sb
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.3	0.05	0.02	0.05	0.01	0.05	0.02	0.03	0.01	0.05	0.01	0.1	0.1	0.1	1	0.1	0.5	0.1	0.1
BLK	Blank													<0.1	<0.1	<0.1	<1	<0.1	<0.5	<0.1	<0.1
BLK	Blank													<0.1	<0.1	<0.1	<1	<0.1	<0.5	<0.1	<0.1
BLK	Blank													<0.1	<0.1	<0.1	<1	<0.1	<0.5	<0.1	<0.1
BLK	Blank													<0.1	<0.1	<0.1	<1	<0.1	<0.5	<0.1	<0.1
BLK	Blank																				
BLK	Blank													<0.1	<0.1	<0.1	<1	<0.1	<0.5	<0.1	<0.1



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QUALITY CONTROL REPORT

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		AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300
		Bi	Ag	Au	Hg	Tl	Se	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr
		ppm	ppm	ppb	ppm	ppm	ppm	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm
		0.1	0.1	0.5	0.01	0.1	0.5	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2
BLK	Blank	<0.1	<0.1	<0.5	<0.01	<0.1	<0.5														
BLK	Blank	<0.1	<0.1	<0.5	<0.01	<0.1	<0.5														
BLK	Blank	<0.1	<0.1	<0.5	<0.01	<0.1	<0.5														
BLK	Blank	<0.1	<0.1	<0.5	<0.01	<0.1	<0.5														
BLK	Blank																				
BLK	Blank	<0.1	<0.1	<0.5	<0.01	<0.1	<0.5														



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		LF300	LF300	LF300	LF300	LF300	LF300	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Zr	Y	Nb	Sc	LOI	Sum	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr
		ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm
		5	3	5	1	-5.1	0.01	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank							<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	0.1	<0.1	<0.2	<0.1	<0.5
BLK	Blank																				



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		AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
		Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg
		ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb
		0.01	0.02	0.02	1	0.01	0.001	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank	<0.01	<0.02	<0.02	<1	<0.01	<0.001	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5
BLK	Blank																				



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		AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
		Se	Te	Ga	Cs	Ge	Hf	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pr	Nd	Sm
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm
		0.1	0.02	0.1	0.02	0.1	0.02	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	0.02	0.02	0.02
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<0.02	<0.02	<0.02
BLK	Blank																				



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AER

Report Date:

February 07, 2023

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Part:

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QUALITY CONTROL REPORT

VAN22003106.1

		AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Pd	Pt
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb
		0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	10	2
BLK	Blank											
BLK	Blank											
BLK	Blank											
BLK	Blank											
BLK	Blank	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<10	<2
BLK	Blank											