



Australian Laboratory Services Pty. Ltd.

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No: 825, Corporate Site No: 23001.

To: **HOLDFAST EXPLORATION PTY LTD**

1 BEELARA WAY

WANEROO WA 6065

Page: 1

Total # Pages: 6 (A - D)

Plus Appendix Pages

Finalized Date: 3-SEP-2020

This copy reported on 7-SEP-2020

Account: **HOLDFAST**

CERTIFICATE PH20170348

Project: SHIPMENT 2

This report is for 171 Percussion samples submitted to our lab in Perth, WA, Australia on 7-AUG-2020.

The following have access to data associated with this certificate:

BEN PIROMANSKI

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LEV-01	Waste Disposal Levy
TRA-21	Transfer sample
LOG-22	Sample login - Rcd w/o BarCode
BAG-01	Bulk Master for Storage
PUL-23	Pulv Sample - Split/Retain
SPL-21	Split sample - riffle splitter
PUL-QC	Pulverizing QC Test

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION
ME-MS61	48 element four acid ICP-MS

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Cameron Brosnan, Laboratory Manager, Perth



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Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg 0.02	PUL-QC Pass75um % 0.01	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2
VA-07-01		3.99		0.04	7.96	23.9	90	1.90	0.41	0.03	<0.02	91.2	18.1	223	3.61	26.9
VA-07-02		4.08		0.09	11.50	17.6	60	1.51	0.52	0.03	0.02	67.0	7.2	175	2.65	19.5
VA-07-03		4.19		0.14	7.16	6.5	110	0.68	0.40	0.02	<0.02	42.1	3.8	80	1.36	10.9
VA-07-04		3.40		0.14	8.86	4.2	150	0.62	0.39	0.01	<0.02	37.2	2.2	75	1.25	7.5
VA-07-05		4.03		0.11	9.84	5.1	210	0.82	0.49	0.01	<0.02	49.5	2.0	82	1.89	9.1
VA-07-06		4.33		0.08	10.40	10.9	180	0.78	0.50	0.01	<0.02	27.8	1.6	111	2.30	10.7
VA-07-07		3.90		0.05	9.99	15.3	150	0.72	0.54	0.01	<0.02	28.5	1.7	119	2.75	12.9
VA-07-08		3.31		0.05	11.25	8.6	210	0.74	0.51	0.01	<0.02	20.5	1.2	87	3.07	10.0
VA-07-09		3.92		0.03	10.30	13.0	190	0.92	0.52	0.01	<0.02	33.9	1.5	111	4.07	13.6
VA-07-10		4.73		0.03	10.45	5.3	220	1.12	0.51	0.01	<0.02	68.8	1.6	63	4.76	11.2
VA-07-11		4.76		0.02	10.25	13.1	280	1.59	0.44	0.01	<0.02	162.0	1.3	89	4.37	14.8
VA-07-12		3.76		0.03	11.05	7.3	250	1.40	0.50	0.01	<0.02	91.7	1.6	68	5.83	13.5
VA-07-13		3.23		0.03	11.25	2.9	280	1.30	0.47	0.01	<0.02	65.3	1.4	46	6.78	12.7
VA-07-14		4.16		0.04	11.25	5.4	270	1.54	0.54	0.01	<0.02	75.6	1.5	61	7.23	14.6
VA-07-15		3.28		0.05	10.80	4.1	240	1.19	0.47	0.01	<0.02	62.1	1.5	60	7.42	16.9
VA-07-16		3.34		0.05	11.65	4.7	330	1.87	0.50	0.02	<0.02	233	1.5	58	6.97	19.1
VA-07-17		3.84		0.05	12.10	3.1	230	1.52	0.52	0.02	<0.02	72.8	1.8	54	8.09	19.5
VA-07-18		2.82		0.04	12.80	2.5	230	1.49	0.58	0.02	<0.02	62.8	1.7	53	8.25	19.8
VA-07-19		3.13		0.03	11.90	10.3	230	1.29	0.52	0.02	<0.02	50.8	1.8	81	7.58	22.2
VA-07-20		3.27		0.02	11.55	7.4	290	1.38	0.55	0.03	<0.02	72.4	1.8	66	8.38	24.3
VA-08-01		3.01		0.08	9.75	20.1	80	1.48	0.52	0.04	<0.02	121.5	19.8	165	3.38	21.0
VA-08-02		4.94		0.10	7.16	11.4	150	0.99	0.54	0.02	0.02	62.4	7.9	107	2.08	13.9
VA-08-03		4.47		0.08	1.80	3.2	180	0.27	0.31	0.01	0.02	20.8	2.0	42	0.54	5.7
VA-08-04		5.08		0.09	2.15	3.5	180	0.26	0.27	0.01	<0.02	16.50	1.9	37	0.57	6.5
VA-08-05		6.40		0.08	2.44	3.0	200	0.24	0.28	0.01	<0.02	20.7	1.9	30	0.60	7.0
VA-08-06		4.11		0.05	10.95	11.2	150	0.84	0.57	0.02	<0.02	32.2	2.3	79	2.08	14.3
VA-08-07		3.25		0.05	12.85	4.3	180	0.71	0.55	0.02	<0.02	28.4	2.3	67	3.31	13.8
VA-08-08		4.35		0.06	12.65	3.4	220	0.95	0.62	0.02	<0.02	26.9	1.9	78	4.66	15.7
VA-08-09		4.83		0.03	10.80	4.8	200	0.85	0.53	0.03	<0.02	30.6	1.8	89	4.71	13.6
VA-08-10		5.08		0.01	9.15	21.4	180	1.42	0.46	0.02	<0.02	24.8	1.7	184	4.14	29.1
VA-08-11		3.91		0.01	8.63	16.4	150	1.74	0.39	0.02	<0.02	21.8	1.6	141	3.61	40.9
VA-08-12		3.02		0.01	10.55	5.8	270	1.81	0.44	0.03	<0.02	118.0	1.3	84	4.50	27.3
VA-08-13		3.98		0.02	11.10	5.0	260	1.77	0.45	0.03	<0.02	120.0	1.3	79	4.78	24.2
VA-08-14		3.98		0.01	12.15	1.5	800	2.63	0.55	0.04	0.02	490	1.2	51	5.50	11.7
VA-08-15		5.03		0.04	11.65	2.8	440	1.80	0.56	0.03	<0.02	200	1.3	68	5.83	16.1
VA-08-16		4.81		0.01	11.45	3.4	280	1.46	0.51	0.03	<0.02	92.8	1.4	80	5.94	20.4
VA-08-17		4.36		0.02	12.75	3.1	270	1.53	0.56	0.03	<0.02	66.8	1.3	67	6.77	16.6
VA-08-18		4.12		0.03	12.10	1.4	360	1.44	0.57	0.03	<0.02	92.9	1.2	48	7.00	14.2
VA-08-19		4.16		0.01	11.60	2.7	420	1.36	0.52	0.03	<0.02	142.5	1.3	49	6.95	16.1
VA-08-20		3.31		<0.01	12.25	6.4	340	1.45	0.54	0.03	<0.02	64.6	1.4	66	7.05	18.6



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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
		%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
VA-07-01		12.95	25.3	0.35	3.1	0.108	0.16	18.1	23.2	0.05	308	4.85	0.02	8.2	22.8	140
VA-07-02		10.05	34.2	0.20	4.3	0.118	0.14	17.9	33.9	0.05	121	4.45	0.02	11.7	23.2	120
VA-07-03		3.63	20.6	<0.05	4.7	0.066	0.09	10.9	19.1	0.03	64	2.91	0.02	12.7	12.0	60
VA-07-04		2.20	22.8	<0.05	4.6	0.058	0.17	21.5	14.6	0.04	32	1.98	0.03	11.7	8.6	100
VA-07-05		2.76	26.4	0.05	6.1	0.067	0.33	30.1	14.0	0.06	26	2.26	0.04	13.8	7.9	150
VA-07-06		6.09	29.6	0.08	5.0	0.074	0.41	16.8	13.9	0.08	19	2.69	0.05	12.2	7.7	120
VA-07-07		8.42	29.3	0.10	5.1	0.085	0.39	18.6	14.6	0.08	27	3.46	0.05	11.8	7.8	160
VA-07-08		6.85	26.7	0.10	4.5	0.064	0.58	11.4	10.7	0.10	20	3.38	0.07	11.1	5.6	120
VA-07-09		11.25	28.4	0.12	5.0	0.110	0.64	23.2	11.9	0.11	24	3.97	0.07	11.8	6.1	200
VA-07-10		4.11	26.0	0.07	4.4	0.062	0.65	44.1	15.2	0.11	19	1.86	0.07	11.6	7.5	160
VA-07-11		8.13	27.4	0.13	4.4	0.075	0.72	80.1	11.5	0.12	17	2.93	0.07	10.4	6.5	380
VA-07-12		4.68	27.5	0.10	4.4	0.064	0.78	44.2	12.6	0.14	22	2.09	0.08	11.9	10.2	250
VA-07-13		1.70	26.1	0.07	4.4	0.048	0.86	33.3	13.0	0.14	21	1.17	0.08	12.1	11.5	160
VA-07-14		3.03	27.5	0.07	4.5	0.051	0.89	38.0	12.3	0.15	21	1.63	0.08	11.9	8.2	190
VA-07-15		3.45	27.5	0.06	4.4	0.063	0.74	34.9	11.9	0.13	23	1.98	0.07	12.4	8.0	170
VA-07-16		3.53	27.4	0.21	4.1	0.056	0.78	108.5	10.7	0.15	24	2.20	0.08	10.9	10.5	620
VA-07-17		2.39	28.0	0.08	4.9	0.050	0.90	40.6	10.5	0.17	22	1.92	0.09	12.8	9.2	220
VA-07-18		1.80	29.0	0.05	5.1	0.048	0.94	41.7	9.8	0.18	23	1.71	0.10	13.0	8.9	150
VA-07-19		4.51	30.0	0.06	4.3	0.083	0.86	27.0	8.7	0.19	22	4.07	0.09	11.0	8.4	260
VA-07-20		2.88	30.0	0.07	4.7	0.074	0.88	35.9	9.4	0.22	23	3.21	0.09	12.1	8.8	260
VA-08-01		10.60	32.5	0.15	4.0	0.120	0.16	19.3	24.0	0.04	225	5.44	0.01	10.8	20.4	130
VA-08-02		5.61	23.8	0.05	8.7	0.105	0.11	18.2	18.0	0.03	97	7.50	0.01	32.6	13.2	110
VA-08-03		1.17	6.34	<0.05	7.7	0.051	0.04	8.2	6.6	0.01	37	4.85	0.01	30.0	3.3	60
VA-08-04		1.49	6.81	<0.05	5.6	0.042	0.05	7.9	7.2	0.01	38	3.45	0.01	20.3	3.7	50
VA-08-05		1.31	7.94	<0.05	4.7	0.038	0.06	11.2	8.3	0.01	39	2.65	0.01	16.8	3.6	50
VA-08-06		5.36	32.4	0.11	4.2	0.077	0.28	22.1	15.4	0.06	21	3.27	0.04	13.5	10.6	110
VA-08-07		2.34	34.0	<0.05	5.8	0.081	0.42	20.2	18.1	0.09	18	2.41	0.05	15.4	12.0	90
VA-08-08		2.03	35.2	<0.05	6.8	0.071	0.66	18.0	15.2	0.12	19	2.57	0.07	16.7	9.6	90
VA-08-09		3.33	29.9	<0.05	5.4	0.066	0.72	21.2	11.8	0.15	22	2.63	0.08	12.8	8.1	120
VA-08-10		13.45	27.2	0.15	4.3	0.112	0.75	11.9	7.0	0.14	21	6.10	0.08	10.9	6.7	270
VA-08-11		19.10	26.4	0.52	3.6	0.147	0.60	10.3	6.9	0.12	16	5.59	0.07	8.4	7.6	320
VA-08-12		10.15	26.1	0.22	4.0	0.114	0.78	59.4	8.2	0.15	19	3.11	0.08	9.8	6.7	380
VA-08-13		9.29	25.8	0.19	4.1	0.104	0.83	61.2	8.6	0.16	19	2.78	0.08	10.4	7.0	340
VA-08-14		3.16	26.2	0.49	4.7	0.046	0.94	208	8.9	0.17	22	2.19	0.09	11.7	6.8	1400
VA-08-15		5.46	27.3	0.25	4.5	0.066	0.89	92.4	8.9	0.16	23	2.51	0.09	12.0	7.6	610
VA-08-16		7.73	26.0	0.18	4.1	0.094	0.89	46.4	8.7	0.16	23	2.40	0.09	10.9	8.2	360
VA-08-17		4.40	27.0	0.09	4.6	0.070	1.04	35.7	9.6	0.18	21	2.04	0.09	12.3	6.7	250
VA-08-18		0.94	28.8	<0.05	4.7	0.043	1.02	43.6	10.3	0.17	17	1.64	0.09	13.2	7.4	280
VA-08-19		1.33	27.1	0.08	4.5	0.043	0.92	63.4	9.4	0.16	19	1.69	0.09	12.3	6.6	370
VA-08-20		2.69	27.0	0.05	4.4	0.059	0.91	31.3	9.7	0.17	21	2.55	0.10	12.6	7.0	280



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		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.1
VA-07-01		47.5	29.6	<0.002	0.01	1.16	12.8	2	2.6	29.6	0.65	0.22	9.37	0.384	2.4
VA-07-02		37.2	18.1	<0.002	0.01	1.09	13.6	2	3.9	35.1	1.01	0.20	11.35	0.569	2.2
VA-07-03		27.1	10.6	<0.002	0.01	0.64	10.2	1	3.5	25.7	1.08	0.06	9.35	0.639	1.6
VA-07-04		24.5	12.2	<0.002	0.01	0.55	10.0	<1	3.3	57.8	0.95	<0.05	8.58	0.578	1.2
VA-07-05		27.3	22.3	<0.002	0.01	0.58	12.6	2	3.8	96.4	1.03	0.06	10.45	0.639	1.4
VA-07-06		21.8	27.5	<0.002	0.01	0.48	13.4	3	3.9	33.6	1.00	0.06	9.60	0.569	1.5
VA-07-07		19.8	27.6	<0.002	0.01	0.44	15.8	2	3.6	33.9	1.02	0.13	11.00	0.559	1.6
VA-07-08		13.2	36.4	<0.002	0.01	0.39	14.0	1	3.4	28.8	0.89	0.05	7.81	0.546	1.6
VA-07-09		20.9	43.5	<0.002	0.01	0.38	18.2	1	3.7	41.1	0.95	0.10	11.05	0.547	1.9
VA-07-10		25.8	44.7	<0.002	0.01	0.35	13.3	<1	3.7	76.9	0.90	0.08	8.25	0.546	1.6
VA-07-11		43.9	48.8	<0.002	0.02	0.36	12.6	1	3.2	148.5	0.80	0.12	10.30	0.482	1.8
VA-07-12		29.9	53.3	<0.002	0.01	0.34	12.7	<1	3.7	108.5	0.93	0.05	8.86	0.545	1.7
VA-07-13		26.6	57.5	<0.002	0.01	0.37	12.1	<1	3.7	85.1	0.96	<0.05	6.86	0.576	1.5
VA-07-14		27.5	62.1	<0.002	0.01	0.41	12.3	<1	3.8	87.4	0.97	0.06	7.34	0.557	1.5
VA-07-15		22.1	55.5	<0.002	0.01	0.41	13.3	<1	3.7	67.3	0.94	0.06	8.90	0.578	1.4
VA-07-16		71.5	54.4	<0.002	0.02	0.39	12.6	<1	3.5	284	0.92	0.05	9.62	0.537	1.5
VA-07-17		26.4	66.0	<0.002	0.01	0.34	13.1	<1	3.9	84.6	1.05	<0.05	6.92	0.609	1.6
VA-07-18		25.5	70.4	<0.002	0.01	0.36	13.6	<1	4.1	64.4	1.04	<0.05	6.63	0.619	1.6
VA-07-19		19.2	63.2	<0.002	0.01	0.39	13.6	1	3.5	48.8	0.90	0.06	8.57	0.533	1.7
VA-07-20		25.7	67.7	<0.002	0.01	0.40	14.3	1	3.7	59.3	1.04	0.07	8.57	0.558	1.8
VA-08-01		44.0	24.2	<0.002	0.01	1.08	14.1	2	3.3	31.3	0.93	0.22	12.05	0.527	2.4
VA-08-02		39.5	14.1	<0.002	0.01	1.22	18.1	1	7.4	30.4	2.51	0.17	22.5	1.590	3.5
VA-08-03		18.6	4.3	<0.002	0.01	0.76	10.0	<1	4.8	17.9	2.13	0.08	13.00	1.510	2.6
VA-08-04		17.2	4.5	<0.002	0.01	0.60	8.2	1	3.2	17.7	1.58	0.07	10.45	1.020	1.9
VA-08-05		17.9	5.2	<0.002	0.01	0.50	7.3	<1	2.9	26.0	1.27	0.06	8.96	0.770	1.7
VA-08-06		28.6	20.0	<0.002	0.01	0.52	12.9	3	3.8	53.8	1.09	0.09	10.25	0.617	1.6
VA-08-07		17.2	31.1	<0.002	0.01	0.56	15.4	<1	4.6	42.4	1.18	<0.05	10.25	0.695	1.6
VA-08-08		18.4	43.2	<0.002	0.01	0.52	14.8	<1	4.8	45.0	1.29	0.06	10.65	0.760	2.0
VA-08-09		19.2	46.8	<0.002	0.01	0.45	13.5	1	4.0	44.6	1.00	0.08	9.88	0.624	1.8
VA-08-10		16.3	48.7	<0.002	0.02	0.41	14.4	1	3.2	27.5	0.85	0.05	13.45	0.522	2.5
VA-08-11		13.9	39.1	<0.002	0.03	0.35	14.5	1	2.6	23.2	0.67	0.07	12.00	0.420	2.7
VA-08-12		32.6	50.4	<0.002	0.02	0.26	13.6	1	2.9	150.0	0.80	0.07	10.25	0.479	2.4
VA-08-13		35.0	53.1	<0.002	0.02	0.27	13.4	1	3.2	141.0	0.82	0.09	10.10	0.498	2.4
VA-08-14		93.9	58.3	<0.002	0.03	0.30	11.3	<1	3.6	746	0.99	0.07	8.85	0.540	1.9
VA-08-15		45.6	57.0	<0.002	0.02	0.34	11.3	1	3.4	287	0.91	0.07	7.82	0.498	2.0
VA-08-16		29.1	57.0	<0.002	0.02	0.37	11.6	1	3.2	104.5	0.83	0.07	8.67	0.493	2.2
VA-08-17		20.9	65.8	<0.002	0.01	0.40	11.6	<1	3.4	76.0	0.92	0.06	7.50	0.539	2.0
VA-08-18		34.1	63.5	<0.002	0.01	0.48	10.7	<1	3.7	106.0	0.98	<0.05	5.69	0.561	1.6
VA-08-19		34.0	62.0	<0.002	0.01	0.39	11.1	<1	3.5	121.5	0.92	<0.05	6.63	0.535	1.6
VA-08-20		21.8	59.6	<0.002	0.01	0.34	11.9	<1	3.4	68.2	0.95	0.07	8.25	0.559	1.8



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Project: SHIPMENT 2

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Finalized Date: 3-SEP-2020
Account: HOLDFAST

CERTIFICATE OF ANALYSIS PH20170348

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		V	W	Y	Zn	Zr
		ppm 1	ppm 0.1	ppm 0.1	ppm 2	ppm 0.5
VA-07-01		381	1.7	7.5	13	110.0
VA-07-02		324	2.3	6.8	19	148.0
VA-07-03		127	5.4	6.4	12	177.5
VA-07-04		103	2.6	5.6	10	152.5
VA-07-05		202	2.3	7.1	9	189.5
VA-07-06		559	2.0	7.2	10	176.0
VA-07-07		435	2.2	7.4	13	169.0
VA-07-08		232	1.8	6.8	10	157.0
VA-07-09		267	2.0	8.7	13	173.0
VA-07-10		136	1.9	7.8	11	158.5
VA-07-11		262	1.7	9.1	13	154.0
VA-07-12		162	1.9	8.4	13	156.5
VA-07-13		86	2.1	7.5	13	152.0
VA-07-14		146	2.1	8.0	13	157.0
VA-07-15		120	2.1	8.6	16	160.5
VA-07-16		130	2.1	8.7	17	144.0
VA-07-17		105	2.2	9.7	16	169.0
VA-07-18		105	2.2	10.0	15	174.0
VA-07-19		206	1.8	8.9	16	151.5
VA-07-20		145	2.1	9.4	15	157.5
VA-08-01		351	2.3	8.1	18	138.5
VA-08-02		224	6.7	15.5	13	332
VA-08-03		82	10.3	11.7	6	294
VA-08-04		76	10.2	8.4	6	238
VA-08-05		64	13.5	7.2	6	195.0
VA-08-06		324	3.4	6.5	12	149.0
VA-08-07		139	2.8	8.3	15	192.5
VA-08-08		152	2.9	8.6	13	241
VA-08-09		222	2.3	8.1	14	210
VA-08-10		380	1.8	8.8	20	175.0
VA-08-11		260	1.4	7.9	25	135.0
VA-08-12		184	1.6	9.9	16	146.0
VA-08-13		176	1.7	10.0	16	147.5
VA-08-14		112	2.0	12.6	13	156.0
VA-08-15		148	1.9	11.3	9	150.5
VA-08-16		201	1.7	10.6	13	141.5
VA-08-17		176	2.0	10.6	9	158.5
VA-08-18		82	2.2	8.4	7	159.0
VA-08-19		104	2.0	10.0	7	150.0
VA-08-20		177	2.0	10.1	8	153.5



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CERTIFICATE OF ANALYSIS PH20170348

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg 0.02	PUL-QC Pass75um % 0.01	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2
VA-09-01		2.54		0.04	9.24	22.7	80	1.62	0.54	0.05	<0.02	73.2	9.2	217	3.40	24.0
VA-09-02		3.52		0.08	13.60	14.1	80	1.46	0.57	0.04	<0.02	53.7	6.0	141	3.33	20.1
VA-09-03		4.06		0.21	13.65	8.7	70	1.07	0.61	0.03	<0.02	26.4	3.6	106	2.75	17.0
VA-09-04		4.64		0.15	12.10	7.3	80	0.93	0.51	0.02	<0.02	26.3	3.1	93	2.55	16.6
VA-09-05		4.18		0.15	11.60	6.7	90	0.65	0.52	0.02	<0.02	21.8	2.1	84	2.05	14.6
VA-09-06		4.00		0.07	11.90	6.0	90	0.80	0.45	0.03	<0.02	17.60	3.3	71	2.59	14.6
VA-09-07		4.29		0.08	8.74	3.9	130	0.61	0.50	0.02	<0.02	22.0	2.7	61	2.12	10.9
VA-09-08		4.49		0.07	10.25	11.6	170	0.74	0.59	0.02	<0.02	23.5	2.2	74	2.59	12.6
VA-09-09		4.75		0.09	10.10	8.5	170	0.68	0.55	0.02	<0.02	21.2	2.1	70	2.35	11.0
VA-09-10		4.61		0.05	12.10	21.4	200	1.08	0.51	0.02	<0.02	24.9	1.9	88	4.67	18.9
VA-09-11		4.11	96.0	0.05	12.65	7.0	220	1.03	0.51	0.02	<0.02	27.3	1.9	61	5.79	18.2
VA-09-12		4.60		0.05	11.30	16.9	190	1.03	0.51	0.02	<0.02	30.6	1.7	103	4.88	22.7
VA-09-13		4.07		0.03	10.70	11.9	160	1.20	0.57	0.02	<0.02	39.1	1.9	93	5.13	27.6
VA-09-14		4.07		0.06	10.45	12.1	190	1.29	0.57	0.02	<0.02	60.7	1.7	96	5.56	25.6
VA-09-15		4.68		0.03	10.35	11.4	210	1.29	0.56	0.02	<0.02	34.4	1.6	93	6.77	22.7
VA-09-16		4.69		0.03	11.30	8.1	230	1.31	0.52	0.02	<0.02	51.9	1.5	69	7.25	20.0
VA-09-17		4.63		0.04	12.65	6.2	280	1.51	0.60	0.02	<0.02	56.5	1.5	63	7.77	16.4
VA-09-18		4.96		0.03	11.60	3.3	230	1.18	0.48	0.02	<0.02	60.3	1.3	43	6.73	20.9
VA-09-19		3.49		0.03	11.55	9.7	230	1.39	0.59	0.02	<0.02	45.2	1.5	73	7.98	26.7
VA-09-20		2.95		0.04	11.75	7.3	300	1.23	0.55	0.02	<0.02	72.1	1.5	62	8.23	27.9
VA-10-01		3.93		0.05	8.78	21.0	70	1.44	0.50	0.04	<0.02	106.5	15.4	186	3.45	21.0
VA-10-02		2.47		0.06	11.60	14.8	80	1.51	0.48	0.04	<0.02	60.0	9.2	130	3.82	18.5
VA-10-03		4.04		0.12	10.60	8.9	80	0.97	0.49	0.03	<0.02	33.6	4.1	114	3.23	16.3
VA-10-04		3.78		0.15	8.41	4.7	90	0.50	0.47	0.02	<0.02	24.8	1.7	68	1.73	13.2
VA-10-05		3.89		0.09	6.70	2.7	110	0.39	0.39	0.01	<0.02	18.30	1.4	47	1.14	9.7
VA-10-06		4.73		0.10	7.12	3.4	130	0.51	0.41	0.02	<0.02	19.45	2.1	49	1.49	9.1
VA-10-07		6.62		0.11	3.63	3.3	170	0.26	0.38	0.01	<0.02	15.25	1.2	43	0.85	7.7
VA-10-08		5.55		0.10	5.15	3.5	150	0.31	0.42	0.01	<0.02	15.80	1.2	40	0.98	8.2
VA-10-09		4.13		0.02	13.00	2.9	150	0.49	0.47	0.01	<0.02	10.65	0.9	54	1.71	7.8
VA-10-10		4.01		0.04	13.00	2.9	150	0.54	0.53	0.01	<0.02	8.06	1.0	61	1.86	8.2
VA-10-11		5.04		0.03	9.64	25.4	210	0.85	0.57	0.02	<0.02	24.3	1.2	200	3.58	16.0
VA-10-12		4.19		0.02	8.59	22.3	190	1.24	0.53	0.02	<0.02	23.3	1.6	203	4.26	29.2
VA-10-13		4.53		0.03	8.12	14.5	180	1.51	0.51	0.01	<0.02	18.85	1.7	146	4.48	39.8
VA-10-14		4.67		0.02	8.94	16.9	180	1.42	0.48	0.01	<0.02	20.4	1.4	124	4.88	38.9
VA-10-15		4.07		0.02	10.75	12.0	210	1.38	0.53	0.01	<0.02	34.3	1.4	102	6.20	21.7
VA-10-16		4.13		0.02	9.74	13.5	210	1.30	0.52	0.01	<0.02	33.5	1.7	113	5.98	28.2
VA-10-17		3.98		0.03	8.53	15.0	160	1.54	0.54	0.01	<0.02	22.9	7.9	117	5.39	44.2
VA-10-18		4.74		0.03	11.60	14.8	200	1.32	0.55	0.01	<0.02	29.1	2.5	103	7.12	36.7
VA-10-19		4.42		0.02	12.70	6.0	210	1.21	0.56	0.02	<0.02	35.8	1.7	91	8.76	21.0
VA-10-20		3.50		0.04	12.80	8.6	260	1.22	0.54	0.02	<0.02	42.9	1.8	93	7.90	25.6



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CERTIFICATE OF ANALYSIS PH20170348

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
		%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
															P
															10
VA-09-01		12.60	28.7	0.42	3.6	0.125	0.18	20.0	22.1	0.04	216	4.28	0.01	9.4	20.9
VA-09-02		7.05	37.1	0.20	5.1	0.148	0.20	16.2	34.4	0.06	119	3.09	0.02	15.5	24.9
VA-09-03		4.66	36.7	0.06	5.6	0.144	0.18	13.2	28.4	0.06	79	2.92	0.03	17.0	19.4
VA-09-04		4.05	31.9	<0.05	4.9	0.130	0.17	15.0	25.8	0.06	51	2.56	0.03	14.6	16.9
VA-09-05		3.06	30.8	<0.05	4.7	0.125	0.14	12.5	25.0	0.05	38	2.53	0.03	14.7	13.9
VA-09-06		3.14	32.5	<0.05	4.5	0.091	0.16	11.6	31.7	0.08	17	1.68	0.05	13.7	17.9
VA-09-07		1.77	24.5	<0.05	6.3	0.081	0.12	14.6	24.3	0.06	23	2.48	0.04	24.4	14.1
VA-09-08		4.53	27.7	<0.05	5.8	0.081	0.28	14.9	15.2	0.08	27	2.93	0.05	19.8	9.4
VA-09-09		3.62	26.4	<0.05	5.7	0.071	0.27	13.1	15.2	0.07	25	2.68	0.05	20.7	8.9
VA-09-10		8.35	29.1	0.12	7.2	0.081	0.55	16.4	13.5	0.12	19	2.87	0.07	12.4	8.9
VA-09-11		2.84	31.9	<0.05	8.9	0.073	0.69	18.3	13.9	0.14	20	2.12	0.08	14.7	9.3
VA-09-12		8.76	28.2	0.07	6.4	0.080	0.62	19.3	12.0	0.13	28	2.80	0.08	12.6	8.0
VA-09-13		9.99	28.2	0.19	5.4	0.087	0.51	23.5	14.8	0.12	32	2.79	0.07	13.1	10.5
VA-09-14		10.65	27.8	0.29	5.1	0.083	0.61	32.3	12.4	0.13	28	2.84	0.08	12.6	8.6
VA-09-15		12.05	27.7	0.25	4.9	0.082	0.82	18.5	10.3	0.15	24	2.55	0.09	12.8	7.3
VA-09-16		8.89	25.1	0.22	4.8	0.064	0.93	25.7	10.2	0.17	23	1.89	0.09	12.5	8.2
VA-09-17		5.64	25.8	<0.05	4.9	0.050	1.02	29.0	10.9	0.18	25	2.27	0.10	13.2	8.0
VA-09-18		1.87	25.4	<0.05	4.6	0.046	0.77	34.8	9.5	0.15	17	1.60	0.09	12.4	7.4
VA-09-19		7.16	25.4	0.13	4.8	0.052	0.91	22.7	9.9	0.17	22	2.22	0.09	12.4	7.6
VA-09-20		4.80	26.6	0.07	4.8	0.051	0.85	37.2	10.1	0.16	23	2.12	0.09	12.8	7.3
VA-10-01		11.50	27.6	0.39	3.5	0.122	0.14	17.0	21.8	0.04	195	4.88	0.01	9.8	18.6
VA-10-02		8.23	32.6	0.29	4.4	0.121	0.18	17.5	32.1	0.06	115	3.79	0.02	12.8	23.4
VA-10-03		5.39	27.0	<0.05	4.6	0.114	0.16	18.6	21.1	0.05	71	3.26	0.02	12.9	16.0
VA-10-04		2.21	23.1	<0.05	4.1	0.093	0.12	14.2	15.2	0.04	30	3.13	0.02	14.6	11.3
VA-10-05		1.18	19.50	<0.05	4.1	0.060	0.08	10.8	15.5	0.04	17	2.33	0.02	15.3	9.8
VA-10-06		1.50	20.0	<0.05	5.0	0.065	0.10	12.5	17.9	0.06	16	2.76	0.03	19.1	11.5
VA-10-07		1.36	10.60	<0.05	5.4	0.052	0.07	8.5	9.8	0.02	28	3.68	0.02	20.9	17.3
VA-10-08		1.39	20.0	<0.05	4.5	0.047	0.09	9.1	10.3	0.03	21	2.99	0.02	17.5	6.6
VA-10-09		1.68	44.3	<0.05	3.1	0.048	0.36	5.1	9.7	0.07	11	2.57	0.04	11.2	5.2
VA-10-10		1.93	48.2	<0.05	3.4	0.046	0.37	3.7	10.5	0.07	11	2.68	0.04	11.4	5.8
VA-10-11		12.30	26.9	0.18	5.6	0.077	0.60	11.7	9.0	0.11	18	5.47	0.06	11.3	5.9
VA-10-12		21.3	29.2	0.51	5.0	0.109	0.60	10.7	9.0	0.12	18	7.05	0.06	10.6	6.8
VA-10-13		21.7	28.5	0.38	4.0	0.131	0.63	8.8	8.9	0.12	18	5.26	0.06	9.2	8.2
VA-10-14		18.65	27.6	0.52	3.7	0.095	0.66	9.2	9.0	0.12	15	3.85	0.06	9.0	10.1
VA-10-15		12.05	24.9	0.23	4.5	0.055	0.78	18.1	9.8	0.14	18	2.63	0.07	10.6	10.9
VA-10-16		12.50	26.5	0.40	4.4	0.080	0.71	17.4	9.0	0.13	19	3.14	0.07	10.7	10.2
VA-10-17		17.90	26.7	0.66	4.0	0.121	0.61	10.0	7.6	0.10	28	4.28	0.06	9.2	17.9
VA-10-18		11.05	29.1	0.39	4.4	0.111	0.76	14.8	9.2	0.13	21	3.92	0.08	11.3	14.8
VA-10-19		3.96	29.9	0.07	5.0	0.085	0.89	19.0	9.9	0.15	24	1.84	0.09	13.3	10.3
VA-10-20		4.81	29.3	0.08	4.6	0.085	0.88	23.6	10.0	0.16	25	2.24	0.09	12.3	9.7



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To: **HOLDFAST EXPLORATION PTY LTD**
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Project: SHIPMENT 2

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CERTIFICATE OF ANALYSIS PH20170348

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.1
VA-09-01		36.7	26.9	<0.002	0.01	1.19	14.0	2	2.9	31.5	0.73	0.23	12.45	0.417	2.4
VA-09-02		32.4	21.0	<0.002	0.01	0.86	16.6	1	4.6	46.1	1.20	0.16	13.75	0.658	2.6
VA-09-03		25.8	16.8	<0.002	0.01	0.70	19.4	1	4.5	40.0	1.33	0.13	14.90	0.724	2.0
VA-09-04		20.6	16.6	<0.002	0.01	0.57	17.9	1	4.0	34.7	1.12	0.08	14.35	0.630	1.6
VA-09-05		19.6	12.1	<0.002	0.01	0.54	15.5	1	3.5	28.5	1.14	0.07	14.60	0.655	1.6
VA-09-06		14.4	17.7	<0.002	0.01	0.51	15.0	1	3.7	29.5	1.04	0.07	10.50	0.616	1.3
VA-09-07		19.2	15.0	<0.002	0.01	0.82	14.7	1	4.9	29.0	1.90	0.06	14.85	1.060	1.8
VA-09-08		22.2	22.8	<0.002	0.01	0.71	13.4	2	4.3	30.5	1.47	0.12	12.70	0.811	2.0
VA-09-09		20.6	20.0	<0.002	0.01	0.75	12.3	1	4.3	28.9	1.58	0.08	11.85	0.889	1.8
VA-09-10		26.8	38.0	<0.002	0.01	0.56	12.8	2	3.4	36.5	0.90	0.11	8.76	0.531	2.0
VA-09-11		19.1	48.1	<0.002	0.01	0.53	14.0	<1	4.2	46.4	1.09	0.06	8.91	0.602	2.0
VA-09-12		17.4	41.3	<0.002	0.01	0.46	13.4	1	3.5	35.9	0.97	0.10	11.45	0.568	1.9
VA-09-13		21.1	36.1	<0.002	0.01	0.45	14.7	1	3.6	48.4	1.02	0.09	12.55	0.556	2.1
VA-09-14		27.1	40.9	<0.002	0.01	0.48	13.5	1	3.4	76.5	0.97	0.10	11.90	0.539	2.0
VA-09-15		16.9	55.8	<0.002	0.01	0.41	12.6	1	3.6	42.7	0.92	0.09	11.00	0.541	2.1
VA-09-16		18.7	62.3	<0.002	0.01	0.38	11.8	1	3.6	75.1	0.93	0.05	8.54	0.534	1.9
VA-09-17		22.1	66.1	<0.002	0.01	0.47	11.5	<1	3.5	72.1	1.01	0.06	7.56	0.578	1.9
VA-09-18		22.5	55.0	<0.002	0.01	0.40	10.6	<1	3.4	63.5	0.93	<0.05	6.18	0.534	1.5
VA-09-19		20.4	63.9	<0.002	0.01	0.43	11.0	1	3.4	53.1	0.94	0.11	7.94	0.520	1.7
VA-09-20		25.6	62.0	<0.002	0.01	0.46	11.5	<1	3.4	78.7	0.95	0.09	7.51	0.555	1.7
VA-10-01		43.4	22.1	<0.002	0.01	1.13	13.9	2	2.8	27.4	0.77	0.21	11.15	0.413	2.3
VA-10-02		33.4	24.1	<0.002	0.01	0.88	15.3	1	3.8	35.5	0.98	0.14	11.40	0.550	2.4
VA-10-03		22.3	21.5	<0.002	0.01	0.66	16.7	1	3.4	31.8	0.99	0.11	13.35	0.584	1.9
VA-10-04		17.7	11.5	<0.002	0.01	0.48	14.3	1	3.3	25.7	1.06	0.07	12.80	0.616	1.5
VA-10-05		13.8	7.9	<0.002	0.01	0.43	10.2	1	3.3	22.1	1.19	0.05	10.25	0.679	1.3
VA-10-06		14.9	10.6	<0.002	0.01	0.57	11.7	1	4.1	26.8	1.55	0.06	11.10	0.860	1.6
VA-10-07		20.1	6.1	<0.002	0.01	0.62	8.7	1	3.9	18.6	1.65	<0.05	10.80	0.976	2.1
VA-10-08		20.6	7.3	<0.002	0.01	0.63	8.2	<1	4.0	19.1	1.34	<0.05	8.82	0.747	1.6
VA-10-09		10.3	19.1	<0.002	0.01	0.40	7.9	1	3.3	16.5	0.86	0.06	4.08	0.500	1.2
VA-10-10		11.3	19.3	<0.002	0.01	0.42	8.2	1	3.4	17.8	0.90	<0.05	4.01	0.504	1.3
VA-10-11		27.1	37.6	<0.002	0.01	0.48	10.9	3	3.5	27.0	0.86	0.18	10.60	0.553	1.9
VA-10-12		17.7	38.3	<0.002	0.01	0.46	12.4	2	3.2	24.6	0.81	0.15	13.25	0.509	2.4
VA-10-13		13.9	40.3	<0.002	0.02	0.35	11.7	1	3.0	21.1	0.74	0.08	11.00	0.450	2.4
VA-10-14		15.5	42.3	<0.002	0.01	0.38	10.4	1	3.0	24.8	0.69	0.08	8.60	0.424	2.1
VA-10-15		17.6	50.7	<0.002	0.01	0.37	11.9	1	3.2	35.2	0.83	0.09	9.45	0.516	1.8
VA-10-16		16.6	48.3	<0.002	0.02	0.39	11.9	1	3.2	32.5	0.79	0.08	10.65	0.497	1.7
VA-10-17		16.5	40.9	<0.002	0.03	0.41	11.6	<1	3.0	22.7	0.75	0.05	11.65	0.455	2.0
VA-10-18		15.9	50.2	<0.002	0.02	0.36	14.3	1	3.6	32.3	0.88	0.08	11.90	0.547	2.0
VA-10-19		14.2	60.8	<0.002	0.01	0.36	14.5	<1	4.0	40.4	1.07	<0.05	10.30	0.640	1.7
VA-10-20		16.8	61.8	<0.002	0.02	0.36	14.4	<1	3.7	43.8	0.99	0.06	9.98	0.581	1.8



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CERTIFICATE OF ANALYSIS PH20170348

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm
		1	0.1	0.1	2	0.5
VA-09-01		377	2.2	8.0	14	122.5
VA-09-02		236	2.5	5.9	25	171.5
VA-09-03		167	2.9	5.6	31	186.0
VA-09-04		155	2.5	6.0	27	164.5
VA-09-05		154	2.6	5.6	29	165.0
VA-09-06		117	2.5	6.0	21	152.0
VA-09-07		89	6.1	9.1	15	225
VA-09-08		321	4.5	9.1	9	222
VA-09-09		241	5.3	7.9	9	201
VA-09-10		618	2.0	7.9	8	168.0
VA-09-11		182	2.4	7.7	10	208
VA-09-12		336	2.0	9.1	15	188.5
VA-09-13		210	2.2	8.2	19	170.5
VA-09-14		221	2.1	8.1	16	167.0
VA-09-15		214	2.0	9.7	16	169.5
VA-09-16		157	2.0	9.8	12	159.0
VA-09-17		148	2.2	9.0	10	167.5
VA-09-18		94	2.0	7.8	9	151.0
VA-09-19		203	2.1	10.0	11	158.5
VA-09-20		164	2.2	9.8	11	160.5
VA-10-01		356	2.1	7.3	13	119.5
VA-10-02		268	2.2	7.3	18	147.0
VA-10-03		192	2.3	8.0	22	162.0
VA-10-04		118	2.6	6.4	24	151.5
VA-10-05		61	3.2	6.1	17	149.5
VA-10-06		79	4.1	7.7	16	181.5
VA-10-07		77	5.0	7.7	9	209
VA-10-08		74	4.3	6.4	9	170.0
VA-10-09		96	1.8	4.4	8	114.5
VA-10-10		117	1.8	3.9	9	118.0
VA-10-11		869	2.0	8.5	12	189.0
VA-10-12		493	1.8	8.7	26	175.5
VA-10-13		269	1.6	7.2	23	141.5
VA-10-14		265	1.4	7.4	17	132.0
VA-10-15		272	2.0	9.6	15	153.5
VA-10-16		289	1.8	10.1	26	154.0
VA-10-17		273	1.6	11.9	178	135.5
VA-10-18		236	1.8	10.5	32	153.0
VA-10-19		190	2.3	8.7	16	170.0
VA-10-20		233	2.0	9.8	17	157.0



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CERTIFICATE OF ANALYSIS PH20170348

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg 0.02	PUL-QC Pass75um % 0.01	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2
VA-11-01		2.71		0.04	7.06	11.4	70	1.11	0.32	0.05	<0.02	41.1	7.2	126	4.11	18.4
VA-11-02		4.53		0.03	10.40	14.7	80	1.67	0.39	0.04	<0.02	146.0	14.2	133	4.26	20.3
VA-11-03		3.70		0.04	10.60	6.7	70	1.23	0.34	0.02	<0.02	31.9	5.6	85	4.04	14.1
VA-11-04		3.08		0.06	10.35	6.5	70	1.13	0.37	0.01	<0.02	24.8	4.7	94	3.02	14.3
VA-11-05		3.69		0.06	10.30	10.9	70	1.26	0.42	0.01	<0.02	38.7	4.7	121	2.55	21.1
VA-11-06		4.34		0.08	10.10	6.9	70	0.92	0.44	<0.01	<0.02	41.2	3.7	89	2.31	14.3
VA-11-07		3.52		0.05	11.40	7.2	70	0.85	0.49	<0.01	<0.02	31.5	3.6	87	2.52	13.9
VA-11-08		3.97		0.20	12.85	6.3	70	0.74	0.57	<0.01	<0.02	33.0	2.9	98	2.34	15.6
VA-11-09		3.66		0.14	11.90	2.9	80	0.81	0.51	<0.01	<0.02	23.8	3.1	84	2.63	13.0
VA-11-10		2.77		0.10	11.45	3.7	80	0.61	0.53	<0.01	<0.02	24.0	2.3	73	1.87	13.4
VA-11-11		4.00		0.07	11.10	2.7	80	0.53	0.52	<0.01	<0.02	19.25	2.4	69	1.63	12.3
VA-11-12		4.23		0.09	9.24	2.6	110	0.46	0.54	0.01	<0.02	23.6	2.3	56	1.50	10.8
VA-11-13		3.98		0.09	4.69	2.1	170	0.27	0.44	0.01	<0.02	18.10	1.5	43	0.93	6.8
VA-11-14		5.14		0.09	3.62	1.7	190	0.30	0.42	0.01	<0.02	18.20	1.4	39	0.88	6.7
VA-11-15		4.21		0.09	2.99	2.0	180	0.26	0.40	0.01	<0.02	18.25	1.3	38	0.86	6.4
VA-11-16		3.40		0.05	6.86	1.8	130	0.37	0.39	0.01	0.02	13.30	2.0	50	1.41	6.9
VA-11-17		2.70		0.03	12.10	2.8	200	0.74	0.52	0.01	<0.02	20.7	1.4	69	3.30	10.1
VA-11-18		3.77		0.02	11.10	31.3	220	0.96	0.70	0.01	<0.02	31.9	1.5	121	4.42	15.5
VA-11-19		3.92		0.03	11.60	10.3	210	0.82	0.51	0.01	<0.02	26.0	1.4	80	4.83	13.6
VA-11-20		3.50		0.04	11.25	11.3	220	1.02	0.55	0.01	<0.02	25.6	1.4	105	5.91	16.3
VA-11-21		3.01	99.0	0.03	10.50	14.2	230	1.47	0.53	0.01	<0.02	30.3	1.5	94	6.23	22.8
VA-12-01		4.39		0.04	8.58	26.5	70	1.51	0.50	0.04	<0.02	107.0	8.9	209	2.89	25.2
VA-12-02		4.06		0.05	10.50	23.3	70	1.83	0.54	0.03	<0.02	49.1	5.6	166	2.99	26.7
VA-12-03		4.51		0.11	9.10	8.7	110	1.18	0.38	0.03	<0.02	32.0	3.8	75	2.62	16.1
VA-12-04		4.35		0.11	2.99	4.7	140	0.40	0.27	0.02	<0.02	23.1	2.0	47	0.85	9.1
VA-12-05		4.24		0.09	3.57	6.8	120	0.51	0.28	0.02	<0.02	32.7	2.1	63	1.02	10.1
VA-12-06		5.69		0.07	1.60	4.0	100	0.29	0.33	0.01	<0.02	20.2	1.2	48	0.46	6.9
VA-12-07		2.88		0.06	10.60	4.4	160	0.77	0.47	0.02	<0.02	26.0	1.7	65	2.75	12.3
VA-12-08		2.69		0.03	12.30	6.8	170	1.05	0.50	0.02	<0.02	27.8	2.5	81	4.98	14.4
VA-12-09		4.03		0.03	9.11	21.7	190	0.90	0.57	0.02	0.02	27.1	1.1	115	3.68	19.1
VA-12-10		3.91		0.02	8.13	15.7	170	0.89	0.41	0.02	<0.02	23.6	1.1	111	3.53	18.5
VA-12-11		0.16		0.03	9.11	12.4	170	0.85	0.38	0.02	<0.02	22.1	1.1	117	3.54	20.1
VA-12-12		3.00		0.02	9.69	3.9	190	0.74	0.36	0.02	<0.02	22.3	1.2	57	4.23	13.1
VA-12-13		2.81		0.02	8.66	4.9	180	0.79	0.37	0.02	<0.02	19.20	1.1	70	4.42	10.4
VA-12-14		3.89		0.01	10.80	3.6	210	1.09	0.43	0.02	<0.02	18.45	1.4	77	6.45	12.6
VA-12-15		3.82		0.01	11.50	6.5	220	1.34	0.49	0.02	<0.02	13.50	2.0	108	7.08	25.1
VA-12-16		3.99		0.01	10.80	3.8	210	1.39	0.43	0.03	<0.02	18.10	1.6	78	6.69	23.1
VA-12-17		3.84		0.01	10.70	4.7	220	1.71	0.46	0.03	<0.02	46.4	1.9	93	6.34	26.7
VA-12-18		4.24		0.02	10.45	6.7	220	1.97	0.47	0.02	<0.02	44.3	2.3	110	6.19	31.4
VA-12-19		4.88		0.02	11.05	10.3	250	1.72	0.48	0.03	<0.02	103.0	1.8	72	7.33	22.9



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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
		%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
															P
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VA-11-01		6.43	16.95	0.15	3.1	0.068	0.15	17.6	17.4	0.05	90	2.29	0.01	8.0	17.1
VA-11-02		8.79	28.1	0.24	3.7	0.099	0.19	17.9	31.0	0.07	98	3.45	0.01	9.9	26.4
VA-11-03		4.30	25.1	0.17	3.6	0.079	0.20	15.2	30.4	0.09	38	1.66	0.02	10.4	22.9
VA-11-04		4.02	24.9	0.14	3.8	0.078	0.19	14.1	27.3	0.09	39	1.29	0.02	10.6	19.9
VA-11-05		6.53	26.8	0.31	4.0	0.098	0.18	19.0	26.0	0.09	76	1.83	0.03	11.4	20.6
VA-11-06		4.12	25.4	0.10	4.1	0.092	0.16	23.3	23.4	0.08	91	1.65	0.05	12.4	16.5
VA-11-07		3.98	28.4	0.15	4.4	0.093	0.17	21.2	26.7	0.09	40	1.53	0.07	13.3	17.6
VA-11-08		3.56	33.3	0.11	5.2	0.133	0.14	21.0	27.3	0.08	74	2.40	0.06	17.3	17.9
VA-11-09		1.66	31.6	0.09	4.9	0.113	0.16	15.2	25.9	0.08	22	1.65	0.05	14.9	18.5
VA-11-10		1.77	30.8	0.09	4.6	0.108	0.11	14.8	21.6	0.05	23	2.40	0.04	15.6	16.6
VA-11-11		1.33	30.9	0.07	4.6	0.092	0.10	10.5	22.2	0.05	25	2.14	0.04	16.3	17.4
VA-11-12		1.27	25.7	0.08	5.2	0.087	0.09	14.4	19.5	0.04	26	2.36	0.03	20.6	14.8
VA-11-13		0.84	13.55	0.06	6.6	0.052	0.07	9.7	10.8	0.03	19	2.56	0.02	24.5	7.5
VA-11-14		0.89	10.10	<0.05	6.2	0.047	0.06	9.9	8.7	0.02	22	2.62	0.02	21.7	5.8
VA-11-15		0.91	8.34	<0.05	7.7	0.046	0.06	9.5	7.6	0.02	22	2.88	0.02	26.3	5.0
VA-11-16		0.80	21.0	<0.05	5.3	0.050	0.13	8.3	11.9	0.03	17	1.88	0.02	20.3	11.2
VA-11-17		1.64	29.7	<0.05	5.5	0.055	0.55	9.9	8.6	0.09	17	2.94	0.05	14.7	7.2
VA-11-18		9.70	32.1	0.17	5.6	0.070	0.76	16.9	8.2	0.12	18	5.63	0.06	15.1	7.7
VA-11-19		7.20	28.2	0.10	4.9	0.051	0.72	12.8	8.1	0.12	19	4.61	0.05	12.8	6.8
VA-11-20		9.98	29.5	0.11	5.3	0.056	0.86	11.5	8.7	0.14	21	4.06	0.06	13.4	6.7
VA-11-21		10.80	32.2	0.14	5.2	0.089	0.86	16.0	9.0	0.15	21	4.25	0.06	13.2	7.4
VA-12-01		13.95	29.1	0.45	3.4	0.121	0.15	19.9	19.0	0.04	187	5.46	0.01	9.2	20.3
VA-12-02		12.85	33.2	0.53	3.6	0.137	0.16	19.0	30.1	0.05	73	5.42	0.01	10.4	23.0
VA-12-03		5.10	23.5	0.06	4.7	0.089	0.15	18.7	27.4	0.06	37	2.56	0.02	13.8	17.8
VA-12-04		2.31	9.10	<0.05	5.1	0.049	0.06	8.9	10.0	0.02	43	2.61	0.01	17.7	6.0
VA-12-05		3.39	10.70	<0.05	4.7	0.053	0.07	15.3	10.5	0.02	48	2.72	0.01	17.3	6.8
VA-12-06		1.78	5.27	<0.05	7.0	0.040	0.04	10.3	7.2	0.01	32	3.38	0.01	27.7	6.0
VA-12-07		2.24	30.0	<0.05	3.9	0.062	0.36	13.9	14.1	0.08	23	1.88	0.04	13.8	9.4
VA-12-08		2.66	32.7	0.06	4.9	0.071	0.57	19.2	18.4	0.15	28	2.02	0.05	13.6	11.8
VA-12-09		4.85	29.4	<0.05	4.5	0.102	0.69	15.4	7.8	0.13	24	5.06	0.05	10.6	5.0
VA-12-10		4.73	24.5	<0.05	4.2	0.063	0.63	12.6	7.4	0.11	22	2.95	0.05	9.7	4.6
VA-12-11		4.57	25.5	<0.05	4.3	0.082	0.63	11.2	7.5	0.12	22	2.28	0.05	9.9	5.3
VA-12-12		1.34	23.8	<0.05	4.3	0.044	0.68	13.6	8.3	0.12	19	1.49	0.06	10.3	5.5
VA-12-13		1.92	21.5	<0.05	3.9	0.047	0.71	11.0	6.9	0.13	19	1.60	0.06	9.4	4.6
VA-12-14		2.29	25.3	<0.05	4.4	0.064	0.94	9.1	8.3	0.17	23	1.32	0.07	11.6	6.2
VA-12-15		5.32	27.7	<0.05	4.8	0.087	0.98	6.5	8.7	0.18	25	2.26	0.07	11.8	8.6
VA-12-16		3.98	23.9	<0.05	4.1	0.066	0.91	7.3	9.4	0.17	24	1.79	0.06	11.3	13.1
VA-12-17		6.83	24.5	0.11	3.7	0.080	0.85	28.3	10.7	0.16	27	2.20	0.06	9.6	8.0
VA-12-18		10.40	26.0	0.22	4.2	0.126	0.90	24.7	9.6	0.16	30	2.50	0.06	9.5	8.4
VA-12-19		3.89	24.5	0.10	4.0	0.073	0.99	47.9	10.5	0.18	23	2.91	0.07	10.6	7.6



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CERTIFICATE OF ANALYSIS PH20170348

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.1
VA-11-01		21.4	29.0	<0.002	0.01	0.70	11.4	1	2.2	25.3	0.65	0.13	8.51	0.390	1.7
VA-11-02		33.0	29.6	<0.002	0.01	0.81	14.2	2	3.3	36.0	0.78	0.12	8.97	0.477	2.6
VA-11-03		17.9	27.8	<0.002	0.01	0.49	12.6	1	3.3	35.2	0.82	0.06	8.50	0.512	1.7
VA-11-04		16.7	23.5	<0.002	0.01	0.48	13.6	1	3.5	31.6	0.86	0.05	9.04	0.511	1.4
VA-11-05		23.9	18.8	<0.002	0.01	0.65	16.3	1	3.7	32.6	0.94	0.09	10.95	0.516	1.7
VA-11-06		22.5	15.8	<0.002	<0.01	0.56	16.9	<1	3.9	33.2	1.00	0.09	12.80	0.563	1.4
VA-11-07		22.0	15.8	<0.002	0.01	0.60	18.3	<1	4.2	34.8	1.09	0.10	14.05	0.610	1.4
VA-11-08		24.4	12.3	<0.002	0.01	0.62	25.4	<1	4.5	35.6	1.31	0.08	16.90	0.746	1.7
VA-11-09		16.7	15.8	<0.002	0.01	0.50	21.4	<1	4.2	30.9	1.15	0.08	12.75	0.690	1.5
VA-11-10		17.6	10.2	<0.002	0.01	0.49	20.2	<1	3.9	27.5	1.18	0.05	12.45	0.727	1.6
VA-11-11		17.4	8.2	<0.002	0.01	0.47	17.6	<1	3.8	27.4	1.16	<0.05	11.30	0.729	1.6
VA-11-12		19.9	8.6	<0.002	0.01	0.57	16.7	1	4.1	25.5	1.59	0.07	13.60	0.897	2.0
VA-11-13		19.7	6.4	<0.002	0.01	0.66	12.2	<1	4.1	20.4	1.86	0.05	12.70	1.115	2.1
VA-11-14		21.0	5.9	<0.002	0.01	0.59	10.7	<1	3.7	20.2	1.70	0.05	11.45	1.020	2.0
VA-11-15		20.2	5.7	<0.002	0.01	0.66	11.2	<1	4.3	18.8	1.87	<0.05	12.55	1.205	2.4
VA-11-16		14.1	10.2	<0.002	0.01	0.58	12.1	<1	3.7	16.8	1.55	0.05	10.90	0.921	1.7
VA-11-17		13.1	33.6	<0.002	0.01	0.52	13.0	1	4.0	29.7	1.14	0.07	7.92	0.707	1.8
VA-11-18		18.1	48.9	<0.002	0.02	0.55	15.3	3	4.6	33.5	1.16	0.08	8.14	0.673	2.1
VA-11-19		13.4	46.5	<0.002	0.01	0.45	12.2	2	3.7	31.8	1.02	0.06	6.92	0.610	1.8
VA-11-20		11.2	56.3	<0.002	0.01	0.42	13.8	1	3.9	26.0	1.03	0.11	8.91	0.647	1.9
VA-11-21		13.7	58.4	<0.002	0.02	0.44	14.3	1	3.7	32.1	1.00	0.12	9.77	0.605	2.3
VA-12-01		47.8	20.9	<0.002	0.01	1.34	15.8	2	2.9	29.6	0.76	0.22	11.30	0.415	2.6
VA-12-02		46.9	20.2	<0.002	0.01	1.10	17.9	2	3.4	37.6	0.82	0.21	11.20	0.484	3.2
VA-12-03		22.8	18.7	<0.002	0.01	0.62	14.7	1	3.3	37.6	1.07	0.08	10.90	0.653	2.1
VA-12-04		14.3	6.5	<0.002	0.01	0.54	9.1	1	2.5	19.1	1.26	0.08	8.96	0.771	1.7
VA-12-05		22.1	7.4	<0.002	0.01	0.62	9.7	1	2.5	23.9	1.20	0.09	9.96	0.786	1.8
VA-12-06		15.9	4.0	<0.002	0.01	0.72	10.2	1	4.1	15.8	1.91	0.05	14.05	1.355	2.3
VA-12-07		15.3	25.5	<0.002	0.01	0.47	11.6	1	3.6	34.9	1.03	0.06	8.85	0.692	1.5
VA-12-08		17.2	42.2	<0.002	0.01	0.45	14.1	1	4.1	43.3	1.03	0.09	9.10	0.652	1.6
VA-12-09		18.1	45.0	<0.002	0.01	0.49	10.9	3	3.7	32.5	0.78	0.09	10.20	0.486	1.7
VA-12-10		13.9	42.6	<0.002	0.01	0.34	9.4	3	2.7	28.2	0.73	0.07	8.50	0.456	1.6
VA-12-11		12.9	42.1	<0.002	0.01	0.31	9.8	2	2.7	27.0	0.72	0.07	8.32	0.470	1.7
VA-12-12		10.8	47.3	<0.002	0.01	0.39	9.8	1	3.0	33.2	0.77	<0.05	6.72	0.485	1.6
VA-12-13		8.6	49.6	<0.002	0.01	0.32	9.2	1	2.7	29.5	0.73	0.07	7.83	0.447	1.6
VA-12-14		8.4	64.2	<0.002	0.01	0.26	11.0	<1	3.2	31.1	0.87	0.09	8.01	0.536	2.1
VA-12-15		13.0	65.5	<0.002	0.01	0.29	12.2	1	3.4	28.9	0.93	0.11	8.79	0.546	2.4
VA-12-16		10.2	65.8	<0.002	0.01	0.29	11.9	1	3.3	24.9	0.83	0.05	8.01	0.509	2.2
VA-12-17		25.2	61.8	<0.002	0.02	0.30	13.3	1	2.9	65.6	0.74	<0.05	10.85	0.470	2.0
VA-12-18		18.8	64.7	<0.002	0.02	0.31	15.3	1	2.9	47.6	0.76	0.05	14.35	0.469	2.4
VA-12-19		25.4	70.3	<0.002	0.01	0.36	12.9	1	3.2	106.0	0.81	0.05	8.66	0.503	2.0



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CERTIFICATE OF ANALYSIS PH20170348

Sample Description	Method Analyte Units LOD	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
VA-11-01		193	1.8	10.8	12	106.0
VA-11-02		272	2.0	8.3	15	127.5
VA-11-03		140	2.0	6.6	16	125.0
VA-11-04		128	2.3	6.1	17	122.0
VA-11-05		186	2.2	6.6	21	132.5
VA-11-06		142	2.6	6.8	22	140.0
VA-11-07		147	2.5	6.4	23	150.5
VA-11-08		133	3.0	6.5	34	173.5
VA-11-09		80	2.7	5.9	31	161.0
VA-11-10		92	2.7	6.1	30	161.0
VA-11-11		74	2.7	5.2	28	161.0
VA-11-12		74	5.0	7.1	21	182.5
VA-11-13		58	6.8	8.9	12	260
VA-11-14		57	7.4	8.0	9	225
VA-11-15		60	8.3	9.5	8	302
VA-11-16		58	5.3	7.4	13	194.5
VA-11-17		120	2.6	6.9	10	180.0
VA-11-18		363	2.5	10.4	13	196.5
VA-11-19		190	2.2	8.5	12	166.5
VA-11-20		242	2.3	11.0	12	186.0
VA-11-21		234	2.2	12.6	17	178.0
VA-12-01		431	1.9	7.5	15	116.0
VA-12-02		428	2.0	6.2	19	125.0
VA-12-03		166	4.3	8.3	16	185.0
VA-12-04		98	11.1	6.5	7	173.0
VA-12-05		131	6.3	7.0	9	182.0
VA-12-06		99	9.2	10.5	6	307
VA-12-07		161	2.8	6.7	10	144.5
VA-12-08		268	2.5	8.1	15	173.5
VA-12-09		433	1.8	8.0	11	159.5
VA-12-10		426	1.6	7.6	10	143.0
VA-12-11		419	1.7	7.6	12	148.0
VA-12-12		140	1.7	7.1	11	155.5
VA-12-13		174	1.6	7.1	12	143.5
VA-12-14		149	2.0	9.6	16	165.0
VA-12-15		217	2.0	9.1	25	165.5
VA-12-16		163	1.8	9.6	22	149.0
VA-12-17		217	1.6	12.2	48	136.5
VA-12-18		267	1.9	15.7	57	137.0
VA-12-19		182	1.8	10.2	21	138.5



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CERTIFICATE OF ANALYSIS PH20170348

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg 0.02	PUL-QC Pass75um % 0.01	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2
VA-12-20		3.64		0.03	11.40	4.7	290	1.50	0.50	0.03	<0.02	107.0	1.6	61	8.53	19.8
VA-13-01		3.94		0.04	8.33	19.0	90	1.63	0.43	0.05	0.02	68.3	9.2	169	2.66	20.4
VA-13-02		3.38		0.06	11.10	21.9	70	1.75	0.54	0.04	<0.02	37.5	6.3	176	2.82	25.1
VA-13-03		2.97		0.05	9.73	13.4	70	1.32	0.39	0.02	<0.02	27.6	5.1	113	3.23	19.2
VA-13-04		2.77		0.05	9.49	8.1	70	0.99	0.37	0.01	<0.02	30.1	4.0	78	2.24	14.4
VA-13-05		2.86		0.06	8.87	5.3	70	0.74	0.40	0.01	<0.02	29.3	2.7	69	1.79	13.0
VA-13-06		2.90		0.06	9.95	5.6	150	0.80	0.47	0.01	<0.02	31.0	2.9	74	2.20	14.0
VA-13-07		2.34		0.05	11.70	5.8	180	0.88	0.51	0.01	<0.02	31.6	3.3	78	2.57	16.7
VA-13-08		3.07		0.05	10.55	5.9	70	0.72	0.52	0.01	<0.02	33.1	2.8	82	2.29	16.7
VA-13-09		2.99		0.08	11.10	4.8	50	0.59	0.56	0.01	<0.02	33.8	2.1	77	2.02	17.4
VA-13-10		3.02		0.09	10.25	5.2	60	0.65	0.56	0.01	<0.02	30.9	2.0	79	1.82	17.4
VA-13-11		2.92		0.19	11.40	5.4	60	0.57	0.56	0.01	0.03	43.9	1.8	80	2.10	18.5
VA-13-12		3.35		0.17	10.55	3.9	60	0.59	0.51	0.01	<0.02	38.2	1.5	74	2.61	17.3
VA-13-13		3.53		0.14	6.98	3.4	240	0.49	0.39	0.01	<0.02	34.5	1.4	58	1.93	12.6
VA-13-14		3.71		0.09	7.42	2.7	280	0.47	0.35	0.01	<0.02	28.2	1.2	49	1.83	15.1
VA-13-15		3.24		0.07	13.05	2.6	180	0.81	0.41	0.01	<0.02	27.7	1.5	66	3.66	23.7
VA-13-16		2.96		0.06	12.50	2.4	230	0.82	0.53	0.01	<0.02	50.2	1.7	69	4.06	22.7
VA-13-17		3.48		0.04	12.15	1.9	220	0.99	0.58	0.01	<0.02	64.0	1.9	62	4.29	19.4
VA-14-01		1.85		0.04	5.21	17.0	170	1.25	0.30	0.04	<0.02	53.0	12.6	141	2.51	22.2
VA-14-02		3.30		0.17	7.12	15.6	230	1.41	0.39	0.03	<0.02	91.0	9.8	130	2.43	24.8
VA-14-03		4.12		0.10	6.53	7.2	220	0.81	0.33	0.03	<0.02	65.0	4.0	72	2.01	15.6
VA-14-04		4.72		0.03	7.01	7.6	180	0.79	0.34	0.02	<0.02	70.6	2.4	76	1.92	13.7
VA-14-05		4.33		0.01	8.61	5.2	150	0.61	0.37	0.01	<0.02	21.7	1.2	83	2.32	13.2
VA-14-06		4.66		0.01	8.99	6.2	160	0.63	0.41	0.01	<0.02	19.80	1.1	89	2.64	14.7
VA-14-07		5.49		0.02	9.37	2.3	170	0.64	0.36	0.01	<0.02	19.45	1.1	57	3.01	11.8
VA-14-08		4.71		0.02	10.40	4.4	170	0.70	0.42	0.01	<0.02	16.60	1.5	97	3.42	14.3
VA-14-09		5.76		0.02	9.68	3.5	170	0.83	0.42	0.01	<0.02	20.5	2.0	65	3.73	15.6
VA-14-10		5.20		0.02	7.09	6.0	150	1.58	0.40	0.01	<0.02	17.35	8.1	105	3.52	32.5
VA-14-11		3.94		0.02	9.22	3.5	180	1.35	0.46	0.01	<0.02	15.30	5.4	76	4.99	20.7
VA-14-12		4.48		0.02	10.75	7.7	200	1.32	0.53	0.01	<0.02	14.15	5.4	86	6.33	29.1
VA-14-13		3.59	96.0	0.02	10.40	9.2	190	1.12	0.46	0.01	<0.02	19.90	2.2	70	7.01	29.1
VA-14-14		2.99		0.02	9.49	23.3	200	1.63	0.49	0.02	<0.02	32.7	2.0	96	6.90	34.1
VA-14-15		4.31		0.02	9.26	14.0	210	2.73	0.41	0.02	<0.02	44.8	2.3	102	6.46	28.8
VA-14-16		4.34		0.02	9.07	19.3	190	4.61	0.46	0.02	<0.02	19.45	4.4	109	7.33	35.6
VA-14-17		5.52		0.02	10.70	10.3	260	2.53	0.48	0.02	<0.02	22.5	2.9	83	8.67	30.9
VA-14-18		4.91		0.02	10.30	12.1	210	2.65	0.52	0.02	<0.02	17.95	3.0	90	7.99	29.7
VA-14-19		3.88		0.03	10.95	11.1	210	2.35	0.48	0.03	<0.02	19.10	3.6	86	8.90	30.4
VA-14-20		3.47		0.03	10.05	12.2	220	2.53	0.41	0.02	<0.02	27.7	3.2	87	7.33	28.6
VA-14-21		5.44		0.03	9.61	8.3	220	1.43	0.40	0.02	<0.02	28.4	2.9	86	5.16	21.3
VA-14-22		3.51		0.12	8.27	12.4	240	1.66	0.38	0.03	<0.02	48.4	6.1	106	4.82	27.4



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CERTIFICATE OF ANALYSIS PH20170348

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
		%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
															P
															10
VA-12-20		2.22	25.4	0.09	4.2	0.060	1.09	44.2	10.9	0.22	24	2.60	0.07	11.0	7.8
VA-13-01		10.90	25.2	0.28	3.0	0.092	0.18	17.9	22.5	0.05	248	3.92	0.01	8.3	20.8
VA-13-02		12.60	36.6	0.37	3.8	0.135	0.21	21.0	32.0	0.07	61	4.25	0.01	10.9	25.6
VA-13-03		8.29	26.0	0.14	3.6	0.089	0.19	17.3	25.4	0.09	56	2.36	0.01	9.6	20.4
VA-13-04		4.74	24.4	0.10	3.6	0.087	0.16	19.6	24.0	0.09	52	1.37	0.02	10.5	17.2
VA-13-05		3.28	22.3	0.06	3.7	0.081	0.14	21.5	21.0	0.06	47	1.18	0.02	11.4	13.8
VA-13-06		3.34	25.4	0.07	4.0	0.096	0.14	22.6	24.9	0.07	54	1.31	0.02	12.5	15.3
VA-13-07		3.38	31.2	0.12	4.3	0.120	0.15	21.9	30.0	0.07	70	1.66	0.03	15.2	18.5
VA-13-08		3.26	29.5	0.07	4.3	0.125	0.12	22.3	26.0	0.05	102	2.08	0.02	15.9	16.3
VA-13-09		2.45	30.3	0.06	4.5	0.130	0.09	22.3	23.8	0.05	99	2.38	0.02	16.6	16.3
VA-13-10		2.35	29.4	0.07	4.2	0.135	0.09	19.4	22.1	0.05	87	2.59	0.02	16.4	15.9
VA-13-11		2.05	31.7	0.09	4.4	0.157	0.11	26.0	18.0	0.05	83	3.27	0.02	16.9	15.8
VA-13-12		1.75	29.6	0.07	4.2	0.134	0.12	23.9	14.6	0.05	57	2.47	0.02	15.0	13.0
VA-13-13		1.35	19.75	<0.05	4.1	0.096	0.10	22.0	11.1	0.04	41	2.58	0.02	18.7	9.2
VA-13-14		1.17	21.0	<0.05	4.1	0.063	0.17	17.4	8.3	0.04	27	2.73	0.02	18.3	6.1
VA-13-15		1.46	35.5	0.05	4.6	0.069	0.47	16.8	9.9	0.09	15	1.81	0.04	14.1	8.2
VA-13-16		1.23	32.9	0.05	5.2	0.077	0.48	28.9	12.9	0.09	17	1.81	0.04	16.5	9.4
VA-13-17		1.10	31.5	0.07	5.9	0.080	0.51	39.4	14.8	0.10	18	1.65	0.04	16.7	10.5
VA-14-01		8.96	15.25	0.10	2.8	0.071	0.15	16.9	11.8	0.04	673	3.11	0.01	7.4	16.2
VA-14-02		8.71	20.2	0.06	5.6	0.100	0.16	19.6	18.0	0.05	535	4.03	0.01	17.3	17.8
VA-14-03		3.60	18.60	0.05	4.5	0.061	0.30	37.0	9.3	0.07	228	2.34	0.03	10.5	8.3
VA-14-04		3.43	22.2	0.07	4.5	0.060	0.36	38.1	6.0	0.07	126	2.35	0.03	9.2	6.0
VA-14-05		3.02	21.4	0.05	4.2	0.065	0.51	11.3	6.0	0.09	39	2.15	0.04	9.4	4.7
VA-14-06		3.03	21.7	<0.05	4.0	0.068	0.54	11.0	6.6	0.09	30	2.64	0.04	9.6	4.7
VA-14-07		1.96	20.5	<0.05	3.9	0.048	0.61	10.5	6.5	0.10	29	1.53	0.04	9.7	4.4
VA-14-08		4.61	24.1	0.05	4.1	0.072	0.67	8.7	7.7	0.11	27	2.69	0.05	10.6	5.8
VA-14-09		3.38	22.7	0.05	4.1	0.067	0.67	11.4	7.9	0.11	30	2.23	0.05	10.4	6.8
VA-14-10		11.65	23.8	0.06	3.6	0.176	0.60	8.4	6.5	0.10	56	4.66	0.04	8.1	20.8
VA-14-11		8.36	23.8	0.05	4.2	0.110	0.79	7.6	7.8	0.13	43	2.63	0.06	10.2	16.3
VA-14-12		10.10	27.1	0.15	4.4	0.113	0.90	6.4	9.6	0.16	41	3.16	0.06	11.0	15.4
VA-14-13		5.92	23.8	0.07	4.4	0.081	0.84	9.6	10.8	0.16	29	3.11	0.06	11.4	7.6
VA-14-14		9.27	26.2	0.08	4.2	0.091	0.84	15.9	11.3	0.16	25	4.62	0.06	10.3	8.3
VA-14-15		10.90	24.7	0.15	3.9	0.111	0.87	19.3	11.6	0.16	22	3.01	0.06	9.6	11.2
VA-14-16		15.15	25.9	0.27	4.0	0.177	0.82	7.4	10.8	0.16	25	4.97	0.06	9.5	20.1
VA-14-17		8.62	26.6	0.12	4.3	0.120	0.98	8.7	12.1	0.20	30	4.05	0.07	11.1	12.7
VA-14-18		11.00	26.2	0.28	4.5	0.115	0.86	7.0	11.1	0.19	28	4.42	0.07	10.8	13.2
VA-14-19		8.89	27.7	0.11	4.5	0.103	0.92	7.7	12.7	0.25	36	3.47	0.07	11.8	15.3
VA-14-20		9.42	25.4	0.13	4.2	0.116	0.88	11.2	11.2	0.17	54	3.57	0.06	10.6	12.7
VA-14-21		6.18	23.1	0.08	4.2	0.086	0.71	13.2	8.6	0.15	71	2.93	0.05	10.5	9.5
VA-14-22		8.19	22.0	0.06	4.6	0.090	0.51	18.0	12.9	0.15	239	3.45	0.04	12.2	15.7

***** See Appendix Page for comments regarding this certificate *****



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CERTIFICATE OF ANALYSIS PH20170348

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.1
VA-12-20		27.2	77.0	<0.002	0.01	0.37	13.2	<1	3.2	125.5	0.85	0.06	7.46	0.542	1.8
VA-13-01		37.0	26.0	<0.002	0.01	0.97	12.6	2	2.6	31.2	0.65	0.19	8.74	0.396	2.3
VA-13-02		39.5	25.6	<0.002	0.01	1.09	17.3	2	4.0	41.7	0.87	0.21	11.80	0.483	2.6
VA-13-03		24.5	29.0	<0.002	0.01	0.70	13.8	1	3.3	35.9	0.75	0.13	9.05	0.459	1.7
VA-13-04		19.3	18.4	<0.002	<0.01	0.53	14.7	1	3.5	33.3	0.81	0.07	10.55	0.476	1.1
VA-13-05		19.0	14.0	<0.002	0.01	0.47	15.0	<1	3.5	32.4	0.92	0.07	12.40	0.524	1.2
VA-13-06		21.4	14.6	<0.002	0.01	0.49	17.8	<1	3.8	35.1	0.97	0.08	14.35	0.577	1.3
VA-13-07		25.7	14.4	<0.002	0.01	0.57	23.1	<1	4.4	42.0	1.13	0.09	15.25	0.662	1.5
VA-13-08		26.2	11.6	<0.002	0.01	0.58	23.8	1	4.2	38.3	1.12	0.08	16.20	0.661	1.6
VA-13-09		25.9	9.1	<0.002	0.01	0.55	25.8	<1	4.2	38.9	1.23	0.09	18.40	0.714	1.7
VA-13-10		25.8	8.6	<0.002	0.01	0.54	24.4	1	4.2	38.3	1.14	0.09	17.30	0.690	1.8
VA-13-11		28.3	9.7	<0.002	0.01	0.67	28.6	1	4.1	47.4	1.19	0.10	20.4	0.717	1.9
VA-13-12		23.6	12.6	<0.002	0.01	0.49	26.6	<1	3.6	46.4	1.11	0.07	15.35	0.633	1.7
VA-13-13		19.4	11.1	<0.002	0.02	0.52	16.5	<1	3.5	42.8	1.34	0.07	13.05	0.803	1.8
VA-13-14		15.5	13.9	<0.002	0.02	0.49	11.2	1	3.4	39.5	1.34	0.07	10.45	0.828	1.9
VA-13-15		18.0	34.0	<0.002	0.01	0.47	12.8	1	3.8	49.1	1.03	0.05	8.10	0.647	1.8
VA-13-16		32.2	35.1	<0.002	0.01	0.53	14.9	<1	4.3	98.6	1.08	<0.05	10.40	0.713	1.9
VA-13-17		33.7	38.4	<0.002	0.01	0.56	17.0	<1	4.5	106.5	1.12	<0.05	12.05	0.714	1.9
VA-14-01		27.5	23.1	<0.002	0.01	0.85	10.3	1	2.1	25.5	0.55	0.14	8.22	0.337	2.1
VA-14-02		34.7	19.7	<0.002	0.01	0.96	15.3	2	3.5	41.6	1.17	0.16	13.15	0.775	2.7
VA-14-03		25.9	23.0	<0.002	0.01	0.60	10.4	1	2.7	162.0	0.74	0.09	8.99	0.502	1.5
VA-14-04		28.1	23.0	<0.002	0.01	0.44	9.4	3	2.6	183.5	0.66	0.15	9.01	0.429	1.3
VA-14-05		11.9	33.1	<0.002	0.01	0.33	9.7	3	2.5	29.5	0.67	0.07	7.57	0.439	1.3
VA-14-06		11.9	35.0	<0.002	0.01	0.31	10.3	2	2.6	27.2	0.71	0.10	7.63	0.449	1.2
VA-14-07		9.4	39.7	<0.002	0.01	0.31	10.1	1	2.7	28.3	0.70	<0.05	6.11	0.447	1.2
VA-14-08		9.5	43.4	<0.002	0.01	0.40	11.5	1	2.9	23.1	0.75	0.06	8.84	0.478	1.4
VA-14-09		12.7	44.6	<0.002	0.01	0.34	11.4	1	2.9	31.6	0.73	0.08	8.32	0.466	1.5
VA-14-10		14.2	41.3	<0.002	0.03	0.45	15.4	1	2.3	20.7	0.60	0.09	16.45	0.387	2.2
VA-14-11		10.1	54.4	<0.002	0.02	0.34	13.7	1	2.8	20.7	0.73	0.10	11.75	0.475	2.1
VA-14-12		13.8	61.1	<0.002	0.03	0.39	15.4	2	3.0	21.2	0.79	0.09	12.00	0.507	2.3
VA-14-13		13.4	60.9	<0.002	0.02	0.32	14.6	1	3.1	25.3	0.81	0.07	9.79	0.512	2.1
VA-14-14		17.0	63.2	<0.002	0.02	0.38	15.8	2	2.9	30.6	0.71	0.06	12.70	0.475	2.2
VA-14-15		18.7	64.2	<0.002	0.03	0.38	16.2	1	2.8	34.0	0.68	0.06	13.75	0.438	2.3
VA-14-16		20.1	66.4	<0.002	0.04	0.39	20.6	2	2.9	20.6	0.67	0.06	18.20	0.429	3.0
VA-14-17		14.8	74.9	<0.002	0.02	0.39	17.3	1	3.2	27.3	0.77	0.07	12.70	0.524	2.7
VA-14-18		13.3	66.4	<0.002	0.03	0.34	17.1	1	3.2	23.4	0.81	0.06	14.25	0.519	2.7
VA-14-19		11.7	73.0	<0.002	0.02	0.36	17.7	1	3.4	28.3	0.86	0.06	12.70	0.540	2.5
VA-14-20		15.4	66.8	<0.002	0.02	0.37	16.7	1	3.1	27.4	0.75	0.06	13.00	0.489	2.4
VA-14-21		14.5	52.0	<0.002	0.02	0.40	13.0	1	2.8	46.8	0.73	0.08	10.05	0.481	1.9
VA-14-22		20.8	44.2	<0.002	0.02	0.66	14.9	1	3.0	58.1	0.88	0.12	11.50	0.570	2.4



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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm
		1	0.1	0.1	2	0.5
VA-12-20		141	2.0	10.2	17	147.5
VA-13-01		315	1.8	7.1	13	109.0
VA-13-02		352	2.4	6.9	18	133.0
VA-13-03		223	2.2	6.6	17	119.0
VA-13-04		148	2.1	6.5	18	120.5
VA-13-05		110	2.3	6.2	19	123.0
VA-13-06		119	2.4	6.4	21	136.0
VA-13-07		122	2.7	6.3	27	152.0
VA-13-08		128	2.7	6.2	26	149.5
VA-13-09		113	2.8	6.1	30	157.0
VA-13-10		112	2.7	5.5	30	154.5
VA-13-11		111	2.8	6.2	41	161.0
VA-13-12		94	2.6	5.9	36	147.5
VA-13-13		75	5.2	7.1	23	164.0
VA-13-14		83	5.9	7.4	12	154.0
VA-13-15		107	2.9	6.2	14	163.0
VA-13-16		98	2.6	6.9	16	173.0
VA-13-17		81	2.5	8.6	17	188.5
VA-14-01		277	1.7	9.5	15	124.0
VA-14-02		278	3.3	11.1	15	225
VA-14-03		173	1.8	7.4	9	145.5
VA-14-04		421	1.5	6.7	9	137.5
VA-14-05		321	1.5	6.7	9	146.0
VA-14-06		331	1.5	6.6	10	130.5
VA-14-07		178	1.5	6.7	10	129.5
VA-14-08		275	1.6	7.6	15	143.0
VA-14-09		171	1.6	7.5	18	135.5
VA-14-10		263	1.3	7.7	57	119.5
VA-14-11		183	1.5	9.5	45	141.0
VA-14-12		221	1.7	9.8	44	152.5
VA-14-13		183	1.8	10.0	24	150.5
VA-14-14		242	1.6	10.7	26	144.0
VA-14-15		281	1.7	12.2	50	133.5
VA-14-16		300	1.6	16.6	102	137.5
VA-14-17		247	1.8	19.5	53	152.5
VA-14-18		258	1.8	15.9	55	148.5
VA-14-19		233	1.9	16.4	55	152.0
VA-14-20		240	1.8	13.4	52	146.5
VA-14-21		260	1.6	10.9	31	146.0
VA-14-22		255	2.2	12.1	43	155.5



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Sample Description	Method Analyte Units LOD	WEI-21	PUL-QC	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Recvd Wt.	Pass7Sum	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
		kg	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
		0.02	0.01	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
VA-14-23		3.74		0.04	10.10	8.8	220	3.01	0.40	0.04	<0.02	27.4	13.8	84	8.05	31.1
VA-14-24		3.87		0.03	9.06	25.3	230	2.56	0.55	0.05	0.02	25.3	10.5	120	8.29	39.1
VA-14-25		3.64		0.02	9.36	14.5	210	1.68	0.43	0.07	<0.02	21.5	8.5	97	8.31	33.9
VA-14-26		2.93		0.03	7.66	20.0	230	2.39	0.38	0.05	<0.02	21.9	13.8	105	10.80	39.7
VA-14-27		3.81		0.05	6.31	17.8	310	1.89	0.31	0.08	<0.02	237	6.1	80	5.20	31.4
VA-14-28		3.96		0.04	4.20	12.3	330	2.57	0.16	0.09	<0.02	271	6.5	87	3.98	25.9
VA-14-29		3.68		0.03	3.22	9.0	300	2.07	0.13	0.05	<0.02	229	5.7	76	3.34	17.4
VA-14-30		3.50		0.04	2.60	5.2	220	1.46	0.11	0.04	<0.02	103.0	4.8	61	2.73	10.9
VA-14-31		2.75		0.04	2.30	5.3	290	1.34	0.10	0.05	<0.02	143.5	4.1	47	2.38	8.7
VA-14-32		3.59		0.02	2.71	5.8	350	1.52	0.11	0.05	<0.02	156.0	3.9	53	2.82	9.5
VA-14-33		5.55		0.03	2.73	5.9	290	1.56	0.14	0.05	<0.02	95.9	4.3	56	2.67	10.4



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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
		%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
VA-14-23		9.08	24.0	0.14	4.4	0.084	0.82	10.2	12.4	0.32	114	2.67	0.07	10.6	39.5
VA-14-24		16.60	26.1	0.40	3.7	0.139	0.77	9.5	11.9	0.38	61	5.12	0.06	9.5	880
VA-14-25		9.83	24.1	0.19	4.1	0.097	0.82	10.4	13.3	0.53	54	2.83	0.07	10.2	520
VA-14-26		15.30	22.3	0.22	4.0	0.131	0.77	9.9	11.5	0.43	101	7.13	0.06	9.7	870
VA-14-27		8.69	17.60	0.34	4.9	0.067	0.77	93.2	11.9	0.45	54	6.61	0.04	9.4	950
VA-14-28		7.14	13.60	0.30	4.4	0.062	1.12	106.5	10.3	0.54	58	3.72	0.04	6.3	22.1
VA-14-29		5.77	11.05	0.25	3.6	0.051	1.00	82.1	8.4	0.40	78	2.47	0.03	5.4	16.0
VA-14-30		4.04	8.39	0.11	3.4	0.040	0.95	42.4	7.2	0.38	67	1.49	0.03	5.2	12.9
VA-14-31		3.15	7.96	0.20	3.5	0.027	0.99	53.7	6.5	0.33	64	1.11	0.03	5.3	10.2
VA-14-32		3.67	8.72	0.18	3.8	0.032	1.12	61.3	7.2	0.39	53	1.25	0.03	4.9	10.8
VA-14-33		3.81	8.62	0.13	2.8	0.035	1.02	38.4	7.6	0.35	94	1.22	0.03	4.8	10.3
															400



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CERTIFICATE OF ANALYSIS PH20170348

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.1
VA-14-23		11.1	68.2	<0.002	0.02	0.36	16.9	1	3.0	29.5	0.79	0.05	11.30	0.501	2.3
VA-14-24		16.3	66.6	<0.002	0.03	0.39	19.2	1	2.8	29.7	0.69	0.05	19.50	0.434	2.6
VA-14-25		10.9	71.2	<0.002	0.01	0.30	19.1	1	2.9	35.0	0.71	<0.05	14.80	0.449	2.3
VA-14-26		13.6	70.8	<0.002	0.03	0.42	17.8	1	2.8	29.4	0.72	0.05	17.80	0.400	2.5
VA-14-27		35.0	57.6	<0.002	0.03	0.28	13.9	<1	3.0	118.5	0.78	<0.05	21.6	0.362	2.3
VA-14-28		23.8	71.4	<0.002	0.04	0.21	13.2	1	1.8	195.0	0.50	<0.05	24.1	0.273	2.4
VA-14-29		13.6	61.6	<0.002	0.02	0.22	10.0	<1	1.6	202	0.45	<0.05	16.05	0.245	2.0
VA-14-30		9.2	57.0	<0.002	0.01	0.22	7.8	<1	1.2	70.7	0.54	<0.05	14.50	0.239	1.6
VA-14-31		10.5	59.3	<0.002	0.02	0.20	7.1	<1	1.2	137.0	0.38	<0.05	15.45	0.233	1.6
VA-14-32		11.5	64.6	<0.002	0.02	0.20	7.6	<1	1.7	144.0	0.41	<0.05	17.05	0.218	1.7
VA-14-33		11.2	57.0	<0.002	0.02	0.21	7.0	<1	1.3	83.2	0.44	<0.05	14.60	0.205	1.6



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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm
		1	0.1	0.1	2	0.5
VA-14-23		195	1.7	24.5	202	147.5
VA-14-24		376	1.6	22.7	170	127.0
VA-14-25		244	1.6	22.8	102	130.5
VA-14-26		203	1.6	22.8	235	136.5
VA-14-27		100	1.6	21.1	100	159.5
VA-14-28		98	1.1	21.9	107	149.5
VA-14-29		94	0.9	14.4	92	116.0
VA-14-30		72	0.7	9.8	69	112.0
VA-14-31		62	0.6	8.9	53	118.0
VA-14-32		73	0.7	9.3	49	121.5
VA-14-33		81	0.8	8.8	44	100.0



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	CERTIFICATE COMMENTS												
Applies to Method:	<p>ANALYTICAL COMMENTS</p> <p>REEs may not be totally soluble in this method. ME-MS61</p> <p>ACCREDITATION COMMENTS</p> <p>NATA Accreditation covers the performance of this service but does not cover the performance of ALS Perth Sample Preparation. Corporate Accreditation No: 825, Corporate Site No: 23001. The Technical Signatory is Wendy Wong, Senior QC Chemist ME-MS61</p> <p>LABORATORY ADDRESSES</p> <p>Processed at ALS Perth located at 31 Denninup Way, Malaga, Australia. Processed at ALS Perth Sample Preparation at 79 Distinction Road, Wangara, WA, Australia</p> <table><tr><td>BAG-01</td><td>LEV-01</td><td>LOG-22</td><td>ME-MS61</td></tr><tr><td>PUL-23</td><td>PUL-QC</td><td>SPL-21</td><td>TRA-21</td></tr><tr><td>WEI-21</td><td></td><td></td><td></td></tr></table>	BAG-01	LEV-01	LOG-22	ME-MS61	PUL-23	PUL-QC	SPL-21	TRA-21	WEI-21			
BAG-01	LEV-01	LOG-22	ME-MS61										
PUL-23	PUL-QC	SPL-21	TRA-21										
WEI-21													