



Australian Laboratory Services Pty. Ltd.

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ALS Perth is a NATA Accredited Testing Laboratory. Corporate Accreditation  
No: 825, Corporate Site No: 23001.

To: **HOLDFAST EXPLORATION PTY LTD**  
**1 BEELARA WAY**  
**WANEROO WA 6065**

Page: 1  
Total # Pages: 4 (A - D)  
Plus Appendix Pages  
Finalized Date: 4-SEP-2020  
This copy reported on 7-SEP-2020  
Account: HOLDFAST

## CERTIFICATE PH20171345

Project: SHIPMENT 1

This report is for 114 Percussion samples submitted to our lab in Perth, WA, Australia on 11-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
LOG-22	Sample login - Rcd w/o BarCode
TRA-21	Transfer sample
PUL-23	Pulv Sample - Split/Retain
BAG-01	Bulk Master for Storage
SPL-21	Split sample - riffle splitter
PUL-QC	Pulverizing QC Test

## ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA26	Ore Grade Au 50g FA AA finish	AAS
OA-GRA08d	Specific Gravity - Acetone	WST-SIM
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-01-01		1.59	91.0	0.10	11.55	28.2	160	1.23	0.51	0.04	<0.02	33.6	4.5	140	3.43	18.3
VA-01-02		5.27		0.06	11.30	67.6	190	0.89	0.52	0.04	<0.02	31.7	2.5	129	2.56	13.6
VA-01-03		3.43		0.07	10.50	78.9	220	0.73	0.51	0.03	<0.02	53.4	1.7	130	1.65	14.5
VA-01-04		2.30		0.05	9.93	90.9	170	0.63	0.50	0.02	<0.02	61.8	1.3	126	1.45	13.1
VA-01-05		2.14		0.04	10.80	56.1	180	0.73	0.45	0.02	<0.02	48.5	1.2	109	1.49	10.6
VA-01-06		3.97		0.04	9.32	62.8	180	0.75	0.44	0.02	<0.02	35.6	1.2	131	1.51	13.1
VA-01-07		1.77		0.03	9.48	41.4	160	0.64	0.43	0.02	<0.02	28.3	1.1	114	1.55	13.7
VA-01-08		2.27		0.06	8.74	33.9	200	0.87	0.46	0.02	<0.02	35.0	1.0	118	1.60	13.6
VA-01-09		4.17		0.04	8.38	21.6	210	0.91	0.43	0.02	<0.02	37.3	0.9	93	1.93	12.6
VA-01-10		3.66		0.03	8.45	11.0	220	1.08	0.44	0.02	<0.02	61.0	0.8	77	2.20	8.6
VA-01-11		4.00		0.03	8.31	14.9	250	1.22	0.49	0.02	<0.02	99.2	0.9	104	2.53	9.6
VA-01-12		2.53		0.02	8.97	13.4	230	1.17	0.45	0.02	<0.02	66.0	0.9	96	2.78	8.9
VA-01-13		3.53		0.04	10.85	12.5	180	1.39	0.47	0.02	<0.02	65.4	1.3	92	3.37	11.9
VA-01-14		4.77		0.02	10.80	15.3	190	1.58	0.47	0.02	<0.02	46.4	1.4	98	3.97	17.4
VA-01-15		2.48		0.03	12.10	7.7	210	1.44	0.49	0.02	<0.02	28.0	1.4	66	4.86	10.7
VA-01-16		3.08		0.03	11.00	13.5	190	1.77	0.43	0.02	<0.02	31.1	1.9	101	4.31	22.1
VA-01-17		2.85		0.03	12.30	10.0	200	1.60	0.44	0.02	<0.02	32.2	1.5	74	4.69	13.9
VA-02-01		2.14		0.06	5.75	8.5	80	0.87	0.30	0.07	<0.02	39.5	6.6	73	3.01	14.4
VA-02-02		2.88		0.06	7.01	3.0	70	0.91	0.39	0.06	<0.02	40.9	7.4	68	4.11	16.7
VA-02-03		3.50		0.05	7.42	6.6	100	1.01	0.45	0.05	<0.02	49.6	7.1	78	4.12	19.6
VA-02-04		2.19		0.06	7.19	3.5	70	0.95	0.40	0.05	<0.02	38.9	7.4	70	4.24	17.4
VA-02-05		3.06		0.07	7.02	3.4	60	0.97	0.40	0.05	<0.02	38.8	4.7	64	3.87	16.2
VA-02-06		4.03		0.06	6.28	3.1	60	0.93	0.47	0.04	<0.02	39.8	4.6	60	3.53	17.1
VA-02-07		3.58		0.06	6.54	3.1	70	0.86	0.38	0.04	<0.02	41.7	3.4	64	3.26	16.1
VA-02-08		4.33		0.07	7.02	3.5	60	0.88	0.36	0.04	<0.02	34.9	3.2	67	3.22	14.9
VA-02-09		3.58		0.05	7.18	3.7	70	0.92	0.42	0.04	<0.02	48.1	3.5	62	3.35	15.7
VA-02-10		4.16		0.05	6.52	3.5	80	0.83	0.36	0.03	<0.02	34.1	2.9	64	2.84	13.7
VA-02-11		4.03		0.04	7.52	4.7	80	0.88	0.40	0.04	<0.02	30.1	3.0	71	3.00	16.1
VA-02-12		4.16		0.05	8.04	3.1	70	0.91	0.42	0.03	<0.02	33.1	3.0	73	3.13	13.9
VA-02-13		4.32		0.07	8.24	5.6	70	0.83	0.46	0.03	<0.02	35.0	3.0	107	2.87	15.4
VA-02-14		4.02		0.07	9.88	4.3	80	0.74	0.59	0.03	<0.02	42.5	2.9	82	3.03	16.1
VA-02-15		3.79		0.06	9.23	4.7	90	0.64	0.58	0.03	<0.02	38.9	2.5	78	2.58	15.9
VA-02-16		2.65		0.08	10.60	4.7	90	0.72	0.59	0.03	<0.02	42.4	2.3	85	2.69	17.4
VA-02-17		3.02		0.09	11.95	4.1	110	0.70	0.67	0.03	<0.02	49.7	2.3	101	2.66	18.3
VA-02-18		3.69		0.21	12.95	4.2	130	0.59	0.66	0.03	<0.02	37.5	1.8	118	2.18	15.4
VA-02-19		2.70		0.20	13.85	5.5	120	0.55	0.65	0.03	<0.02	33.3	2.0	128	2.12	16.2
VA-03-01		3.11		0.04	4.74	3.4	80	0.73	0.23	0.05	<0.02	30.3	7.6	84	2.80	12.9
VA-03-02		3.00		0.04	7.16	5.0	80	1.10	0.32	0.05	<0.02	41.9	7.5	98	4.01	16.1
VA-03-03		4.74		0.04	8.17	8.6	80	1.18	0.35	0.05	<0.02	53.3	7.1	158	3.81	20.1
VA-03-04		4.11		0.23	13.25	6.2	110	1.05	0.55	0.05	<0.02	79.3	5.1	128	3.31	20.3



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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
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VA-01-01		8.54	29.0	0.23	5.0	0.132	0.22	17.2	23.3	0.06	55	3.32	0.03	11.5	20.0
VA-01-02		12.15	26.7	0.17	5.1	0.121	0.27	21.5	16.0	0.06	28	3.19	0.03	11.1	12.4
VA-01-03		16.80	23.0	0.15	4.3	0.123	0.27	36.9	10.7	0.05	20	3.23	0.03	9.8	9.2
VA-01-04		16.00	22.1	0.31	3.9	0.119	0.27	42.4	8.7	0.04	17	3.54	0.03	9.5	6.7
VA-01-05		10.45	24.1	0.11	4.2	0.088	0.32	31.9	9.2	0.05	14	3.42	0.04	10.3	6.7
VA-01-06		15.90	23.8	0.17	3.8	0.110	0.33	23.6	8.3	0.05	14	4.06	0.04	9.7	6.1
VA-01-07		11.10	23.5	0.09	4.1	0.086	0.36	19.3	9.1	0.05	13	4.15	0.04	9.7	6.2
VA-01-08		11.20	22.8	0.06	4.0	0.094	0.37	23.4	9.3	0.05	12	3.95	0.05	10.1	5.9
VA-01-09		9.83	21.6	0.07	3.9	0.077	0.44	24.7	9.4	0.07	15	3.59	0.05	9.5	5.2
VA-01-10		7.72	20.6	0.07	4.1	0.050	0.52	36.5	9.4	0.08	15	2.71	0.05	10.0	4.9
VA-01-11		10.70	26.2	0.12	4.4	0.067	0.57	48.6	9.6	0.09	13	3.96	0.06	10.5	5.1
VA-01-12		9.26	24.8	0.10	4.3	0.059	0.60	33.4	9.4	0.10	16	4.16	0.06	10.4	5.4
VA-01-13		8.41	24.8	0.09	4.1	0.081	0.63	29.8	10.2	0.11	21	3.79	0.06	10.2	9.6
VA-01-14		9.98	27.3	0.10	4.0	0.123	0.68	21.6	9.7	0.12	19	3.98	0.06	9.7	9.2
VA-01-15		4.49	24.3	0.05	4.4	0.072	0.84	11.8	11.1	0.14	21	2.40	0.07	11.1	8.8
VA-01-16		11.50	24.8	0.13	3.8	0.122	0.73	13.0	9.7	0.12	22	3.55	0.06	9.6	10.1
VA-01-17		6.70	23.5	0.07	4.1	0.079	0.76	16.0	10.8	0.13	21	2.73	0.07	10.1	8.4
VA-02-01		2.98	12.95	0.07	3.5	0.054	0.18	20.6	14.8	0.05	162	1.24	0.02	8.0	17.3
VA-02-02		2.55	16.35	0.10	3.5	0.052	0.21	15.5	19.8	0.06	127	1.35	0.01	9.6	18.6
VA-02-03		3.39	18.45	0.10	4.1	0.063	0.21	16.6	19.8	0.06	111	1.47	0.02	10.0	18.8
VA-02-04		2.57	17.30	0.09	3.5	0.060	0.19	16.4	20.2	0.05	122	1.07	0.01	9.7	18.6
VA-02-05		2.46	17.05	0.11	3.6	0.054	0.18	16.4	19.3	0.05	86	1.04	0.01	9.7	17.1
VA-02-06		2.25	16.60	0.11	3.3	0.056	0.17	15.8	18.5	0.05	82	1.08	0.01	10.1	16.6
VA-02-07		2.35	16.30	0.10	3.8	0.056	0.18	15.2	17.7	0.05	69	1.08	0.01	9.8	15.6
VA-02-08		2.52	17.05	0.10	3.4	0.057	0.18	15.4	18.0	0.05	68	1.01	0.01	10.0	15.4
VA-02-09		2.46	18.25	0.12	4.0	0.064	0.18	16.2	18.9	0.05	77	1.04	0.01	10.5	16.2
VA-02-10		2.44	16.10	0.09	3.7	0.055	0.17	14.0	16.5	0.05	60	1.00	0.01	9.5	13.8
VA-02-11		2.83	18.70	0.11	3.8	0.062	0.19	15.3	18.7	0.05	61	1.23	0.02	10.1	15.5
VA-02-12		2.94	20.2	0.12	3.8	0.073	0.18	16.3	19.6	0.05	61	1.17	0.01	10.3	15.2
VA-02-13		3.37	21.0	0.13	4.4	0.072	0.15	18.4	17.9	0.04	78	1.46	0.01	11.0	14.5
VA-02-14		3.21	25.6	0.16	4.4	0.092	0.14	23.4	20.2	0.04	111	1.86	0.01	13.7	15.0
VA-02-15		2.97	24.3	0.14	4.2	0.098	0.12	23.0	18.2	0.03	93	1.88	0.01	13.0	14.0
VA-02-16		2.99	28.5	0.13	4.5	0.110	0.12	25.7	21.7	0.04	82	2.16	0.01	15.0	14.8
VA-02-17		2.96	31.6	0.15	4.8	0.122	0.12	25.4	23.2	0.04	87	2.42	0.01	16.3	16.4
VA-02-18		2.24	32.0	0.06	5.8	0.133	0.10	19.0	20.7	0.04	50	2.74	0.01	17.4	14.2
VA-02-19		2.49	33.9	0.06	5.9	0.158	0.11	15.5	20.8	0.04	37	2.98	0.01	16.3	14.3
VA-03-01		2.51	11.50	0.06	2.8	0.045	0.15	14.4	14.0	0.04	168	0.96	0.01	7.3	11.8
VA-03-02		3.45	17.85	0.05	3.6	0.065	0.19	17.3	21.6	0.05	115	1.27	0.01	9.1	17.7
VA-03-03		4.98	21.2	0.06	4.2	0.090	0.19	20.6	22.8	0.05	115	1.49	0.02	9.7	19.4
VA-03-04		3.56	31.6	0.07	5.4	0.129	0.18	27.0	25.2	0.05	140	2.68	0.03	15.4	18.0



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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-01-01		27.3	28.8	<0.002	0.01	0.75	15.4	2	3.8	38.1	0.88	0.15	14.50	0.588	2.9
VA-01-02		26.2	23.0	<0.002	0.02	0.47	14.6	2	3.4	40.5	0.84	0.13	14.35	0.558	2.0
VA-01-03		37.0	18.7	<0.002	0.02	0.43	14.4	2	2.9	53.4	0.72	0.12	14.65	0.489	1.7
VA-01-04		32.1	17.0	<0.002	0.02	0.41	12.4	2	2.8	106.5	0.65	0.14	12.45	0.448	1.6
VA-01-05		23.4	19.0	<0.002	0.02	0.46	12.0	1	3.0	96.7	0.73	0.10	10.65	0.501	1.5
VA-01-06		19.2	20.4	<0.002	0.02	0.41	13.5	1	3.0	69.8	0.69	0.16	12.15	0.462	1.5
VA-01-07		14.4	21.7	<0.002	0.02	0.44	12.8	1	3.1	51.8	0.73	0.08	10.30	0.477	1.5
VA-01-08		16.2	23.3	<0.002	0.02	0.40	12.5	1	3.0	68.5	0.72	0.11	11.25	0.465	1.5
VA-01-09		13.3	28.1	<0.002	0.01	0.35	11.6	1	2.7	46.9	0.68	0.11	9.59	0.471	1.4
VA-01-10		15.9	32.1	<0.002	0.01	0.32	10.1	1	2.9	61.0	0.76	0.07	8.97	0.504	1.5
VA-01-11		24.0	35.4	<0.002	0.01	0.35	11.5	1	3.1	76.9	0.76	0.10	11.55	0.523	1.6
VA-01-12		18.4	36.6	<0.002	0.01	0.34	9.7	<1	3.0	54.9	0.73	0.08	9.72	0.508	1.6
VA-01-13		17.4	39.8	<0.002	0.01	0.38	10.5	<1	3.0	47.6	0.74	0.09	10.55	0.505	1.7
VA-01-14		17.7	43.9	<0.002	0.02	0.42	12.1	1	2.8	36.4	0.67	0.08	13.15	0.474	2.1
VA-01-15		11.5	52.6	<0.002	0.01	0.36	10.2	<1	3.3	31.6	0.83	0.06	8.02	0.541	1.6
VA-01-16		13.2	45.9	<0.002	0.02	0.40	12.3	1	2.8	28.2	0.69	0.07	14.30	0.478	1.8
VA-01-17		13.1	48.3	<0.002	0.02	0.37	10.8	1	2.9	32.2	0.74	0.07	10.45	0.512	1.6
VA-02-01		12.4	35.6	<0.002	0.01	0.38	9.1	<1	2.2	31.5	0.61	0.05	8.22	0.394	1.2
VA-02-02		12.0	36.8	<0.002	0.01	0.34	10.5	<1	2.7	26.8	0.70	<0.05	8.59	0.466	1.6
VA-02-03		13.9	38.2	<0.002	0.01	0.39	11.4	<1	2.8	31.5	0.78	<0.05	9.32	0.471	1.7
VA-02-04		12.7	38.4	<0.002	0.01	0.39	11.1	<1	2.6	29.3	0.72	<0.05	9.16	0.456	1.7
VA-02-05		12.8	35.3	<0.002	0.01	0.36	11.0	<1	2.6	28.5	0.74	<0.05	9.27	0.467	1.6
VA-02-06		12.0	33.6	<0.002	0.01	0.36	11.1	<1	2.7	28.5	0.75	<0.05	9.22	0.446	1.6
VA-02-07		12.9	29.6	<0.002	0.01	0.37	10.9	<1	2.6	28.4	0.79	<0.05	9.65	0.462	1.6
VA-02-08		12.8	28.5	<0.002	0.01	0.39	11.5	1	2.6	30.2	0.79	<0.05	9.64	0.470	1.5
VA-02-09		14.0	30.8	<0.002	0.01	0.39	12.2	<1	2.7	32.9	0.77	<0.05	10.50	0.480	1.6
VA-02-10		12.6	24.7	<0.002	0.01	0.39	10.3	<1	2.4	29.8	0.71	<0.05	9.13	0.451	1.5
VA-02-11		14.7	25.7	<0.002	0.01	0.43	11.8	<1	2.8	32.4	0.79	<0.05	9.82	0.475	1.5
VA-02-12		14.9	24.4	<0.002	0.01	0.42	12.5	<1	3.0	32.4	0.77	0.06	10.15	0.479	1.5
VA-02-13		18.0	19.9	<0.002	0.01	0.47	14.2	<1	3.0	31.5	0.84	<0.05	11.85	0.515	1.6
VA-02-14		22.0	16.2	<0.002	0.01	0.56	18.3	<1	3.6	35.0	1.03	0.07	14.65	0.624	1.7
VA-02-15		21.9	14.1	<0.002	0.01	0.51	18.2	<1	3.6	33.8	1.04	0.05	14.75	0.607	1.7
VA-02-16		23.8	12.9	<0.002	0.01	0.59	20.9	<1	4.1	36.5	1.16	0.07	16.35	0.680	1.8
VA-02-17		27.3	11.2	<0.002	0.01	0.61	23.7	<1	4.4	39.3	1.24	0.09	19.20	0.806	2.0
VA-02-18		21.8	9.4	<0.002	0.01	0.52	23.5	1	4.4	36.3	1.39	0.08	18.30	0.816	2.1
VA-02-19		19.9	10.3	<0.002	0.01	0.56	23.3	1	4.4	33.8	1.29	0.10	17.25	0.803	2.2
VA-03-01		10.9	30.7	<0.002	<0.01	0.34	7.9	<1	1.9	18.5	0.56	0.05	7.33	0.354	1.1
VA-03-02		14.5	39.3	<0.002	<0.01	0.41	11.2	<1	2.5	27.2	0.73	0.07	9.71	0.439	1.7
VA-03-03		17.1	35.5	<0.002	<0.01	0.47	14.3	<1	2.7	29.9	0.79	0.07	11.60	0.478	2.2
VA-03-04		26.1	21.0	<0.002	0.01	0.58	20.7	1	4.1	40.5	1.27	0.09	18.50	0.756	2.1



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**CERTIFICATE OF ANALYSIS PH20171345**

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	Au-AA26 Au ppm 0.01	OA-GRA08d S.G. Unity 0.01
VA-01-01		497	2.3	7.9	62	169.5	0.01	2.78
VA-01-02		815	2.0	7.8	19	169.5	<0.01	
VA-01-03		849	1.6	6.6	15	151.5	<0.01	
VA-01-04		807	1.4	5.7	13	135.0	<0.01	
VA-01-05		491	1.6	6.3	12	150.5	<0.01	
VA-01-06		576	1.6	6.4	14	135.5	0.01	
VA-01-07		431	1.8	6.1	13	131.0	<0.01	
VA-01-08		384	1.7	6.3	17	132.0	0.02	2.93
VA-01-09		237	2.5	6.7	12	132.5	<0.01	
VA-01-10		178	1.7	7.5	8	146.5	<0.01	
VA-01-11		290	1.7	9.3	9	149.5	<0.01	
VA-01-12		249	1.6	9.0	9	145.0	0.02	
VA-01-13		224	1.6	9.7	13	146.5	<0.01	
VA-01-14		273	1.5	11.1	18	150.5	<0.01	
VA-01-15		164	1.8	8.9	13	149.0	<0.01	
VA-01-16		260	1.5	11.8	26	136.5	<0.01	
VA-01-17		188	1.7	9.9	17	144.0	0.01	
VA-02-01		111	2.7	13.6	14	107.5		
VA-02-02		74	2.6	10.6	17	117.5		
VA-02-03		105	2.6	10.3	16	119.0		
VA-02-04		79	2.4	10.4	15	122.5		
VA-02-05		77	2.5	9.8	15	136.0		
VA-02-06		71	2.3	8.8	14	128.5		
VA-02-07		75	2.5	8.0	15	127.5		
VA-02-08		81	2.3	8.0	15	127.0		
VA-02-09		80	2.3	9.0	15	127.0		
VA-02-10		79	2.3	7.4	14	137.5		
VA-02-11		90	2.3	7.8	17	139.5		
VA-02-12		92	2.2	8.0	17	137.5		
VA-02-13		113	2.5	8.2	18	126.0		
VA-02-14		107	2.7	7.9	22	134.0		
VA-02-15		101	2.5	7.8	27	130.5		
VA-02-16		107	2.6	8.5	27	147.5		
VA-02-17		113	2.7	7.8	35	160.5		
VA-02-18		98	3.2	7.3	34	201		
VA-02-19		123	2.9	7.5	31	214		
VA-03-01		80	2.5	10.4	20	92.3		
VA-03-02		112	2.5	9.9	20	136.5		
VA-03-03		159	2.5	10.1	23	132.5		
VA-03-04		135	2.9	10.2	35	192.5		



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## CERTIFICATE OF ANALYSIS PH20171345

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-03-05		3.70		0.18	12.70	2.9	140	0.75	0.50	0.05	<0.02	42.4	2.1	85	2.79	12.9
VA-03-06		2.68		0.12	9.29	3.0	140	0.56	0.47	0.03	<0.02	34.3	2.4	66	2.07	11.0
VA-03-07		4.23		0.09	12.70	2.0	120	0.37	0.38	0.02	<0.02	16.25	1.6	61	1.01	7.0
VA-03-08		2.84		0.07	11.85	3.0	220	0.83	0.52	0.03	<0.02	46.0	1.8	77	2.46	11.5
VA-03-09		3.36		0.06	9.58	14.8	300	1.12	0.58	0.03	0.02	67.5	1.2	79	3.71	11.0
VA-03-10		3.40		0.03	10.25	52.0	350	1.73	0.56	0.03	<0.02	97.9	1.5	163	3.02	17.6
VA-03-11		3.97		0.03	9.06	39.4	210	1.32	0.54	0.03	<0.02	34.5	1.6	205	3.15	23.8
VA-03-12		3.19		0.03	9.84	25.9	230	1.40	0.52	0.04	<0.02	35.9	1.6	146	3.84	24.6
VA-03-13		3.20		0.01	9.80	12.9	200	1.37	0.48	0.04	<0.02	39.2	1.7	152	3.46	30.9
VA-04-01		2.85		0.04	5.92	3.7	100	0.89	0.26	0.06	<0.02	34.8	10.0	80	3.54	15.1
VA-04-02		4.03	85.0	0.05	11.00	21.0	180	1.77	0.48	0.06	<0.02	92.9	20.4	260	3.56	29.9
VA-04-03		3.71		0.11	13.20	9.1	90	1.18	0.57	0.05	<0.02	78.0	4.7	161	3.38	20.5
VA-04-04		4.45		0.21	10.40	5.2	110	0.69	0.45	0.03	<0.02	41.8	2.0	82	2.49	15.1
VA-04-05		4.75		0.14	7.81	2.6	140	0.51	0.40	0.03	<0.02	34.3	1.5	58	2.09	11.2
VA-04-06		6.37		0.12	3.80	2.4	160	0.33	0.30	0.02	<0.02	24.8	1.5	45	1.07	8.9
VA-04-07		3.91		0.07	1.96	2.3	170	0.19	0.29	0.02	<0.02	28.0	2.3	44	0.70	6.7
VA-04-08		6.24		0.09	4.85	2.0	130	0.33	0.31	0.01	<0.02	29.4	1.9	41	0.86	9.3
VA-04-09		4.45		0.06	9.73	2.1	250	0.84	0.44	0.02	<0.02	75.2	1.3	58	1.96	8.3
VA-04-10		5.12		0.03	11.50	2.2	330	1.26	0.46	0.03	<0.02	106.0	1.1	60	2.51	6.0
VA-04-11		4.54		0.03	10.20	17.0	320	1.33	0.50	0.03	<0.02	81.4	1.0	77	2.87	8.7
VA-04-12		5.02		0.02	9.57	30.8	240	1.26	0.52	0.03	<0.02	40.5	1.2	108	3.63	12.1
VA-04-13		4.79		0.04	10.50	9.4	270	1.19	0.52	0.03	<0.02	47.6	1.1	56	4.17	8.3
VA-04-14		3.82		0.03	10.40	8.1	230	1.15	0.49	0.03	<0.02	29.7	1.2	70	4.55	10.8
VA-04-15		4.00		0.03	10.40	9.9	220	1.12	0.49	0.03	<0.02	32.9	1.3	82	4.48	12.3
VA-04-16		3.80		0.03	11.60	4.7	210	1.12	0.47	0.03	<0.02	26.4	1.4	69	4.56	12.0
VA-04-17		4.53		0.04	10.65	5.2	200	1.03	0.44	0.03	<0.02	25.3	1.5	73	4.75	16.6
VA-04-18		4.67		0.04	8.65	9.2	310	1.49	0.44	0.03	<0.02	125.0	1.5	108	3.90	27.3
VA-04-19		3.20		0.03	5.19	18.0	230	0.76	0.20	0.01	0.02	92.5	1.0	96	1.45	13.3
VA-04-20		4.35		0.02	2.81	7.9	90	0.46	0.12	0.01	<0.02	58.0	0.9	71	0.92	10.1
VA-05-01		1.30		0.04	5.01	3.1	80	0.85	0.26	0.05	<0.02	36.7	11.5	69	3.01	14.3
VA-05-02		3.08		0.04	6.75	3.5	70	1.07	0.30	0.05	<0.02	39.1	9.7	64	4.01	15.9
VA-05-03		2.16		0.04	7.31	4.1	70	1.15	0.31	0.05	<0.02	44.2	9.4	71	4.27	16.6
VA-05-04		1.32		0.04	8.16	4.9	90	1.29	0.32	0.05	<0.02	57.7	12.7	79	4.40	18.9
VA-05-05		3.85		0.06	7.25	5.4	100	0.98	0.31	0.04	<0.02	92.3	6.0	69	2.92	16.9
VA-05-06		4.61		0.05	8.91	6.2	90	1.04	0.36	0.05	<0.02	65.5	4.9	77	3.47	18.6
VA-05-07		4.79		0.04	9.16	5.8	70	1.10	0.35	0.04	<0.02	44.2	4.2	83	3.40	15.5
VA-05-08		4.23		0.05	9.33	6.5	70	1.00	0.38	0.04	0.02	29.1	4.1	96	3.33	15.5
VA-05-09		4.96		0.16	12.45	5.8	80	0.76	0.56	0.04	<0.02	67.5	2.8	97	2.97	17.9
VA-05-10		3.88		0.19	11.05	4.0	110	0.66	0.50	0.03	<0.02	43.5	2.1	82	2.91	14.4
VA-05-11		4.30		0.15	10.95	3.9	110	0.67	0.47	0.03	<0.02	36.5	1.9	79	3.04	12.4



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# **CERTIFICATE OF ANALYSIS PH20171345**

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-03-05		1.66	29.6	0.05	5.0	0.098	0.15	20.9	21.1	0.04	53	2.62	0.03	15.6	15.1
VA-03-06		1.38	24.7	<0.05	4.9	0.087	0.12	18.8	19.0	0.03	44	2.95	0.02	18.3	13.6
VA-03-07		0.97	40.0	<0.05	4.4	0.063	0.07	6.6	20.4	0.02	28	3.00	0.02	16.6	8.5
VA-03-08		1.51	31.0	0.06	5.7	0.067	0.33	23.2	14.6	0.05	29	2.67	0.04	14.6	8.9
VA-03-09		2.61	25.5	0.08	5.6	0.047	0.61	38.9	12.8	0.09	24	2.49	0.05	13.6	8.1
VA-03-10		11.60	26.7	0.25	5.1	0.083	0.57	58.3	10.4	0.09	21	4.53	0.04	10.2	16.8
VA-03-11		15.95	25.8	0.40	4.9	0.092	0.56	20.5	9.3	0.08	19	4.46	0.04	9.6	9.4
VA-03-12		13.45	24.1	0.26	4.4	0.079	0.67	22.8	9.8	0.10	22	3.44	0.05	9.8	11.8
VA-03-13		14.95	24.5	0.32	4.0	0.120	0.67	22.2	8.5	0.10	21	3.54	0.05	8.5	15.2
VA-04-01		2.74	13.65	0.07	3.2	0.056	0.20	18.9	15.5	0.05	230	1.20	0.01	8.8	14.6
VA-04-02		12.25	28.9	0.26	3.7	0.118	0.21	18.4	25.1	0.06	666	4.13	0.01	9.7	26.0
VA-04-03		5.23	33.1	0.22	5.2	0.136	0.19	22.9	29.2	0.05	128	2.66	0.02	15.8	21.7
VA-04-04		2.51	26.9	0.06	4.5	0.126	0.15	19.5	17.6	0.04	59	2.46	0.02	14.0	13.6
VA-04-05		1.12	21.2	<0.05	4.0	0.071	0.13	19.8	15.2	0.03	34	2.15	0.02	13.7	13.2
VA-04-06		0.85	10.35	<0.05	5.1	0.057	0.07	11.8	8.9	0.02	41	3.35	0.01	20.7	7.1
VA-04-07		0.85	5.54	<0.05	6.3	0.051	0.05	13.8	6.0	0.01	63	3.63	0.01	25.9	3.8
VA-04-08		0.70	12.20	<0.05	4.1	0.049	0.06	13.4	8.5	0.02	32	2.41	0.01	17.0	8.3
VA-04-09		0.73	21.4	0.07	3.8	0.042	0.36	37.6	10.9	0.06	26	1.75	0.03	10.7	7.3
VA-04-10		0.79	23.9	0.11	4.2	0.042	0.54	47.9	11.5	0.09	22	1.68	0.05	10.9	6.7
VA-04-11		3.96	25.1	0.13	4.4	0.048	0.62	38.8	10.5	0.10	20	2.85	0.05	11.0	6.9
VA-04-12		8.75	25.2	0.10	5.0	0.062	0.72	21.2	11.5	0.11	23	3.86	0.05	10.6	8.2
VA-04-13		2.46	24.0	0.06	4.5	0.042	0.78	25.5	12.6	0.12	23	2.37	0.06	11.0	9.1
VA-04-14		4.57	24.2	0.07	4.7	0.049	0.79	16.5	11.8	0.12	26	2.54	0.06	10.7	12.3
VA-04-15		6.22	24.7	0.06	4.8	0.057	0.76	17.0	11.3	0.12	24	2.45	0.06	10.3	14.5
VA-04-16		3.99	25.8	<0.05	4.8	0.046	0.73	12.3	11.1	0.11	26	1.98	0.06	11.5	21.2
VA-04-17		4.09	24.5	<0.05	4.3	0.046	0.72	11.5	10.4	0.11	24	2.20	0.06	10.9	11.7
VA-04-18		8.35	23.6	0.16	4.8	0.077	0.65	56.5	8.3	0.09	37	5.51	0.05	10.6	9.5
VA-04-19		6.28	14.30	0.09	5.7	0.054	0.26	50.5	5.2	0.04	57	4.69	0.02	7.8	4.5
VA-04-20		4.47	8.90	0.05	3.9	0.041	0.20	30.0	4.2	0.03	52	3.04	0.01	5.5	2.9
VA-05-01		2.32	11.35	0.06	3.2	0.040	0.19	20.6	14.9	0.04	200	1.24	0.01	8.2	15.3
VA-05-02		2.57	15.50	0.05	3.5	0.049	0.22	18.1	20.7	0.06	116	1.15	0.01	9.3	17.5
VA-05-03		2.85	16.85	<0.05	3.8	0.063	0.21	19.0	22.8	0.06	111	1.22	0.01	9.8	19.1
VA-05-04		3.33	18.20	0.06	3.8	0.064	0.23	21.5	23.6	0.06	159	1.32	0.01	10.8	20.1
VA-05-05		3.01	16.70	<0.05	4.3	0.058	0.18	20.4	18.8	0.05	208	1.26	0.01	9.7	14.5
VA-05-06		3.55	20.4	<0.05	3.8	0.073	0.21	22.4	21.8	0.06	158	1.43	0.01	10.6	17.5
VA-05-07		3.45	21.4	<0.05	3.7	0.077	0.20	21.0	21.8	0.06	87	1.27	0.01	10.4	17.5
VA-05-08		3.59	21.4	0.05	3.8	0.078	0.20	21.3	20.8	0.06	68	1.30	0.02	11.0	17.4
VA-05-09		2.99	29.6	0.07	5.4	0.125	0.16	34.8	20.5	0.05	70	2.71	0.02	16.0	16.6
VA-05-10		1.79	27.4	0.06	5.0	0.121	0.17	28.0	16.7	0.04	32	2.66	0.02	16.4	14.3
VA-05-11		1.67	26.0	0.05	4.8	0.114	0.17	23.8	15.7	0.05	25	2.32	0.02	14.6	13.3



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**CERTIFICATE OF ANALYSIS PH20171345**

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-03-05		21.0	15.3	<0.002	0.01	0.48	17.2	<1	4.1	36.7	1.22	0.05	14.35	0.766	1.9
VA-03-06		22.6	11.8	<0.002	0.01	0.51	14.2	<1	4.1	33.0	1.39	<0.05	12.90	0.835	1.8
VA-03-07		16.3	5.8	<0.002	0.01	0.42	10.3	<1	4.2	21.0	1.24	<0.05	8.22	0.792	1.7
VA-03-08		27.8	20.9	<0.002	0.01	0.53	12.6	<1	3.9	52.0	1.13	<0.05	9.95	0.721	1.9
VA-03-09		31.9	39.1	<0.002	0.01	0.49	11.8	1	3.9	62.8	1.07	0.07	10.85	0.688	2.0
VA-03-10		49.1	37.6	<0.002	0.02	0.53	12.7	4	3.0	78.7	0.80	0.23	12.30	0.493	2.4
VA-03-11		18.6	37.0	<0.002	0.02	0.43	14.0	3	3.0	33.2	0.76	0.10	11.80	0.475	2.3
VA-03-12		20.1	44.7	<0.002	0.01	0.40	13.5	1	3.0	36.8	0.72	0.11	9.83	0.483	2.1
VA-03-13		19.9	42.9	<0.002	0.02	0.34	11.9	1	2.8	36.7	0.67	0.07	10.30	0.443	2.0
VA-04-01		13.5	39.2	<0.002	0.01	0.35	10.0	<1	2.1	23.4	0.68	0.06	8.85	0.415	1.4
VA-04-02		42.8	30.7	<0.002	0.01	1.06	13.4	1	3.1	33.7	0.78	0.21	9.99	0.539	2.8
VA-04-03		29.3	22.8	<0.002	<0.01	0.65	19.7	1	4.3	41.6	1.24	0.11	16.85	0.712	2.2
VA-04-04		19.6	14.7	<0.002	0.01	0.45	19.7	1	3.6	30.0	1.09	<0.05	16.55	0.675	1.7
VA-04-05		17.0	13.0	<0.002	0.01	0.38	13.6	<1	3.2	31.7	1.09	0.05	11.50	0.677	1.4
VA-04-06		15.4	7.2	<0.002	0.01	0.50	10.5	<1	3.6	23.0	1.53	0.05	12.65	1.015	2.0
VA-04-07		18.2	5.7	<0.002	0.01	0.55	9.7	<1	4.2	32.5	1.83	<0.05	12.35	1.275	2.4
VA-04-08		18.1	6.1	<0.002	0.01	0.52	9.2	<1	3.3	29.5	1.30	<0.05	9.74	0.818	1.7
VA-04-09		22.0	20.8	<0.002	0.01	0.34	9.6	<1	2.8	61.2	0.79	<0.05	10.30	0.529	1.5
VA-04-10		22.3	32.6	<0.002	0.01	0.36	10.9	<1	3.0	74.3	0.82	<0.05	9.73	0.534	1.6
VA-04-11		30.4	37.2	<0.002	0.01	0.38	11.3	2	3.1	67.9	0.87	0.11	9.74	0.541	2.2
VA-04-12		21.5	45.7	<0.002	0.01	0.35	12.0	2	3.1	38.3	0.81	0.10	7.94	0.529	2.6
VA-04-13		17.1	49.9	<0.002	0.01	0.34	10.9	<1	3.1	39.6	0.88	0.07	6.89	0.555	1.7
VA-04-14		12.5	49.8	<0.002	0.01	0.35	11.2	<1	3.1	31.4	0.81	0.06	6.97	0.533	1.7
VA-04-15		14.7	49.0	<0.002	0.01	0.32	11.7	1	3.0	32.3	0.82	0.06	7.14	0.531	1.7
VA-04-16		11.7	48.8	<0.002	0.01	0.31	11.7	<1	3.3	30.7	1.09	0.05	6.10	0.586	1.7
VA-04-17		11.6	48.5	<0.002	0.01	0.44	11.1	<1	3.1	27.6	0.85	<0.05	6.05	0.539	1.6
VA-04-18		33.3	43.9	<0.002	0.02	0.41	14.9	<1	3.2	76.3	0.83	0.05	11.15	0.472	2.0
VA-04-19		17.5	16.7	<0.002	0.01	0.24	13.3	<1	2.1	47.0	0.67	<0.05	17.45	0.347	1.6
VA-04-20		9.1	12.5	<0.002	0.01	0.24	10.2	<1	1.4	19.3	0.61	<0.05	17.35	0.279	1.7
VA-05-01		10.8	39.0	<0.002	0.01	0.31	8.7	<1	2.0	21.8	0.67	<0.05	9.33	0.394	1.4
VA-05-02		12.3	46.1	<0.002	<0.01	0.36	10.8	<1	2.6	26.2	0.70	<0.05	9.84	0.440	1.6
VA-05-03		12.9	45.6	<0.002	<0.01	0.37	12.0	<1	2.7	28.5	0.78	0.05	10.90	0.470	1.9
VA-05-04		16.8	46.2	<0.002	<0.01	0.40	13.0	<1	2.9	33.1	0.83	<0.05	11.80	0.533	2.3
VA-05-05		20.4	30.9	<0.002	<0.01	0.42	11.7	<1	2.7	30.0	0.80	0.07	10.65	0.473	1.9
VA-05-06		17.9	35.0	<0.002	<0.01	0.52	13.9	<1	3.3	35.4	0.85	0.07	12.15	0.521	1.8
VA-05-07		16.0	32.0	<0.002	<0.01	0.46	13.9	<1	3.2	34.2	0.85	0.07	11.60	0.491	1.6
VA-05-08		17.0	30.6	<0.002	<0.01	0.47	14.6	<1	3.3	35.1	0.86	0.07	12.25	0.531	1.6
VA-05-09		27.6	18.4	<0.002	0.01	0.54	23.4	1	4.4	44.7	1.23	0.08	21.7	0.766	2.3
VA-05-10		21.1	18.5	<0.002	0.01	0.49	23.7	<1	4.2	37.5	1.15	0.08	18.10	0.725	2.1
VA-05-11		19.2	19.6	<0.002	0.01	0.44	22.4	<1	3.8	36.0	1.15	0.05	16.35	0.702	2.1



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**CERTIFICATE OF ANALYSIS PH20171345**

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Au-AA26	OA-GRA08d
		V	W	Y	Zn	Zr	Au	S.G.
		ppm 1	ppm 0.1	ppm 0.1	ppm 2	ppm 0.5	ppm 0.01	Unity 0.01
VA-03-05		77	2.7	7.8	33	247		2.72
VA-03-06		72	3.4	7.2	24	175.5		
VA-03-07		51	3.1	5.0	16	166.5		
VA-03-08		88	2.6	7.9	15	191.0		
VA-03-09		394	2.3	9.7	14	186.0		
VA-03-10		1350	1.9	10.5	13	163.5		
VA-03-11		547	1.7	9.0	19	178.0		
VA-03-12		367	1.7	8.8	15	155.0		
VA-03-13		333	1.5	7.0	19	135.0		
VA-04-01		89	2.2	12.5	15	112.5		
VA-04-02		367	2.0	7.6	20	174.0		
VA-04-03		189	2.8	7.3	27	175.0		
VA-04-04		112	2.6	6.4	27	158.5		
VA-04-05		63	2.9	6.1	24	143.0		
VA-04-06		63	6.6	7.9	14	218		
VA-04-07		65	14.9	9.9	9	261		2.75
VA-04-08		54	7.1	6.5	12	157.0		
VA-04-09		67	2.4	6.2	11	127.5		
VA-04-10		79	2.0	7.3	9	137.5		
VA-04-11		427	2.1	7.7	9	142.0		
VA-04-12		708	2.0	8.7	11	155.5		2.92
VA-04-13		165	2.1	7.9	10	146.0		
VA-04-14		194	1.9	8.1	11	153.0		
VA-04-15		237	1.9	7.6	14	153.5		
VA-04-16		192	2.1	7.2	13	160.5		
VA-04-17		170	1.9	6.9	18	146.5		
VA-04-18		185	1.8	9.3	22	161.0		
VA-04-19		103	1.3	6.6	15	194.0		
VA-04-20		74	1.1	5.5	11	129.5		
VA-05-01		65	3.2	15.4	11	120.5		
VA-05-02		80	3.3	11.9	13	117.0		
VA-05-03		85	3.3	11.3	14	136.5		
VA-05-04		100	2.8	11.8	16	130.5		
VA-05-05		99	3.6	9.7	14	138.5		
VA-05-06		108	3.2	8.5	15	123.5		
VA-05-07		110	3.2	7.6	16	120.0		
VA-05-08		115	2.8	7.7	16	126.0		
VA-05-09		121	3.0	8.7	30	174.0		
VA-05-10		90	2.8	7.7	30	167.0		
VA-05-11		87	2.8	7.7	28	159.5		



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**CERTIFICATE OF ANALYSIS PH20171345**

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-05-12		4.45		0.12	10.50	3.7	120	0.71	0.44	0.03	<0.02	36.2	1.6	79	3.06	12.8
VA-05-13		4.94		0.12	10.30	3.9	130	0.67	0.45	0.03	<0.02	42.8	1.8	75	2.93	12.9
VA-05-14		4.87		0.09	10.25	3.2	160	0.65	0.46	0.03	<0.02	47.7	1.7	72	2.88	12.3
VA-05-15		4.36		0.08	8.45	2.6	170	0.66	0.43	0.02	<0.02	46.3	1.8	65	2.45	10.3
VA-05-16		5.48		0.09	3.40	2.2	210	0.36	0.35	0.01	<0.02	30.0	1.4	44	1.15	8.4
VA-05-17		4.56		0.07	4.80	2.3	190	0.40	0.40	0.02	<0.02	35.2	1.4	49	1.14	8.2
VA-05-18		5.12		0.02	11.70	4.5	240	1.05	0.52	0.02	<0.02	71.8	1.0	51	1.69	9.0
VA-05-19		4.80		0.03	11.35	8.4	230	1.17	0.54	0.02	<0.02	56.8	1.2	75	2.48	9.5
VA-05-20		4.01		0.03	10.65	19.8	240	1.31	0.59	0.03	0.02	41.5	1.3	160	3.65	11.9
VA-05-21		3.19		0.03	11.85	13.8	220	1.38	0.59	0.03	<0.02	33.0	1.5	151	4.16	15.2
VA-05-22		3.47		0.03	10.70	14.3	190	1.61	0.56	0.03	<0.02	31.7	1.7	170	4.13	41.3
VA-05-23		4.18		0.03	11.20	18.4	180	1.37	0.48	0.03	<0.02	25.5	1.7	147	4.19	33.8
VA-05-24		3.71		0.04	10.70	20.5	270	1.35	0.42	0.03	<0.02	153.0	1.3	114	3.29	22.0
VA-05-25		3.45		0.05	7.47	19.8	390	1.04	0.26	0.03	<0.02	268	1.0	80	1.78	16.7
VA-06-01		2.65		0.05	7.95	24.7	60	1.42	0.52	0.03	<0.02	36.9	7.8	284	3.70	25.2
VA-06-02		3.64		0.04	10.40	21.1	80	1.88	0.50	0.04	<0.02	92.9	10.5	219	4.43	26.5
VA-06-03		4.04		0.05	10.30	14.3	70	1.71	0.41	0.04	<0.02	60.8	6.8	158	3.95	20.4
VA-06-04		4.78		0.05	10.40	10.7	80	1.38	0.41	0.03	<0.02	51.9	5.5	128	3.57	18.3
VA-06-05		4.05		0.07	9.26	5.5	60	1.01	0.36	0.02	<0.02	28.7	4.3	84	2.73	13.7
VA-06-06		3.55		0.07	8.88	5.1	60	1.03	0.34	0.01	<0.02	24.7	3.9	86	2.54	13.1
VA-06-07		3.53	86.0	0.05	8.61	4.2	60	0.92	0.33	0.03	<0.02	24.7	3.9	81	2.38	12.6
VA-06-08		3.96		0.04	9.12	4.5	60	1.01	0.36	0.03	<0.02	30.0	3.9	87	2.64	15.0
VA-06-09		3.63		0.08	8.75	4.5	60	0.98	0.40	0.01	<0.02	42.0	3.3	88	2.30	14.1
VA-06-10		3.75		0.07	9.56	5.0	80	0.96	0.45	0.01	<0.02	61.3	3.2	84	2.51	15.7
VA-06-11		5.27		0.07	10.45	5.8	110	0.92	0.51	0.01	<0.02	74.2	3.2	91	2.69	16.4
VA-06-12		3.77		0.17	11.35	4.9	70	0.79	0.55	0.01	<0.02	35.3	2.5	96	2.38	16.7
VA-06-13		3.08		0.17	10.95	4.4	60	0.67	0.56	0.01	<0.02	33.5	2.5	95	1.97	13.4
VA-06-14		3.39		0.13	9.15	3.6	80	0.54	0.53	0.01	<0.02	30.1	2.3	86	1.56	11.6
VA-06-15		5.24		0.04	2.07	4.1	120	0.27	0.43	0.01	<0.02	25.1	1.3	66	0.55	5.6
VA-06-16		4.97		0.07	2.29	3.8	120	0.30	0.38	0.01	<0.02	22.1	1.5	57	0.68	6.0
VA-06-17		4.31		0.05	8.48	10.0	160	0.68	0.63	0.01	<0.02	36.4	1.3	100	1.45	10.4
VA-06-18		2.97		0.08	11.15	4.1	210	0.71	0.64	0.01	<0.02	38.7	1.4	76	2.11	12.3
VA-06-19		3.15		0.04	11.25	2.8	240	0.73	0.57	0.01	<0.02	39.0	1.1	66	2.94	11.7
VA-06-20		2.74		0.02	13.05	5.8	220	0.85	0.57	0.02	<0.02	30.4	1.1	117	4.68	13.5



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# **CERTIFICATE OF ANALYSIS PH20171345**

Sample Description	Method Analyte Units LOD	ME-MS61 Fe %	ME-MS61 Ga ppm	ME-MS61 Ge ppm	ME-MS61 Hf ppm	ME-MS61 In ppm	ME-MS61 K %	ME-MS61 La ppm	ME-MS61 Li ppm	ME-MS61 Mg %	ME-MS61 Mn ppm	ME-MS61 Mo ppm	ME-MS61 Na %	ME-MS61 Nb ppm	ME-MS61 Ni ppm	ME-MS61 P 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-05-12		1.56	25.3	<0.05	5.0	0.111	0.17	22.9	14.7	0.04	23	2.61	0.02	15.7	12.9	120
VA-05-13		1.50	25.1	0.07	4.9	0.109	0.18	26.5	15.2	0.04	22	2.81	0.02	15.9	13.7	110
VA-05-14		1.34	24.6	0.06	5.1	0.094	0.19	28.8	15.1	0.04	16	3.08	0.02	16.9	14.5	120
VA-05-15		1.02	21.1	0.05	4.9	0.074	0.15	26.2	14.3	0.04	22	3.08	0.02	19.2	13.0	120
VA-05-16		0.92	8.56	<0.05	7.5	0.056	0.08	16.4	7.2	0.02	31	4.19	0.01	25.8	5.7	70
VA-05-17		0.86	13.30	<0.05	6.4	0.057	0.12	18.9	7.6	0.02	27	4.48	0.02	25.8	5.4	80
VA-05-18		1.28	33.0	0.05	3.7	0.045	0.37	37.0	11.1	0.06	11	2.79	0.04	12.6	5.6	150
VA-05-19		2.46	27.4	0.07	5.8	0.050	0.53	32.2	10.4	0.08	13	2.42	0.04	11.9	6.4	150
VA-05-20		7.14	26.0	0.08	7.5	0.064	0.71	22.7	9.9	0.11	21	3.14	0.05	11.9	8.3	170
VA-05-21		7.46	28.8	0.09	6.9	0.062	0.75	18.2	10.2	0.11	22	2.94	0.06	13.2	17.4	140
VA-05-22		11.35	29.2	0.12	5.5	0.125	0.72	14.0	8.3	0.11	18	3.58	0.06	11.5	13.3	130
VA-05-23		11.05	26.7	0.14	5.1	0.096	0.73	10.2	8.1	0.11	20	3.39	0.06	11.6	9.9	150
VA-05-24		6.36	24.5	0.19	5.4	0.071	0.60	76.1	7.3	0.09	31	3.41	0.04	11.2	13.2	350
VA-05-25		3.46	16.15	0.26	5.1	0.053	0.30	133.5	5.2	0.05	30	3.15	0.02	8.4	8.5	660
VA-06-01		13.80	24.8	0.23	4.0	0.117	0.16	19.4	17.1	0.04	152	4.54	0.01	9.1	18.7	190
VA-06-02		12.15	29.6	0.46	4.3	0.114	0.19	18.5	29.8	0.06	161	4.41	0.01	10.4	26.5	150
VA-06-03		9.04	26.9	0.17	4.0	0.102	0.19	17.6	30.0	0.07	88	3.19	0.02	10.2	24.3	120
VA-06-04		6.78	25.9	0.11	4.3	0.089	0.20	20.3	29.1	0.08	68	2.35	0.02	10.7	22.8	140
VA-06-05		3.57	22.1	0.07	3.8	0.081	0.17	16.5	27.1	0.08	47	1.31	0.02	10.9	18.9	90
VA-06-06		3.31	20.6	0.06	3.8	0.074	0.16	15.8	25.7	0.08	45	1.19	0.03	10.3	17.3	80
VA-06-07		2.92	19.45	<0.05	3.8	0.062	0.15	15.4	24.7	0.15	43	1.02	0.04	9.7	20.8	80
VA-06-08		3.03	21.1	<0.05	3.8	0.067	0.16	17.0	26.6	0.15	40	1.00	0.05	10.5	20.7	90
VA-06-09		3.19	21.5	0.06	3.8	0.066	0.15	20.6	24.3	0.08	66	1.27	0.05	10.7	14.5	100
VA-06-10		3.29	24.2	0.06	4.1	0.092	0.14	24.9	26.5	0.07	89	1.54	0.05	12.3	15.0	120
VA-06-11		3.43	27.8	0.07	4.4	0.104	0.14	27.1	27.3	0.07	100	1.89	0.05	13.7	15.6	130
VA-06-12		2.81	30.5	0.09	4.7	0.117	0.11	22.3	26.4	0.05	80	2.14	0.05	16.4	15.5	120
VA-06-13		2.37	31.0	0.06	5.1	0.108	0.10	22.0	25.5	0.05	47	2.40	0.04	17.0	15.3	100
VA-06-14		1.89	25.6	0.05	5.5	0.089	0.08	19.8	24.0	0.04	39	3.25	0.03	21.1	13.2	90
VA-06-15		1.48	6.76	0.05	8.2	0.061	0.04	11.9	6.8	0.01	28	6.02	0.01	33.5	3.8	70
VA-06-16		1.69	8.04	<0.05	7.4	0.049	0.04	10.5	7.7	0.02	32	4.51	0.01	29.5	4.9	60
VA-06-17		4.94	34.8	0.07	6.3	0.069	0.28	22.1	8.1	0.05	26	4.13	0.04	20.1	5.4	100
VA-06-18		2.12	34.8	0.06	5.4	0.060	0.38	27.1	10.4	0.06	15	2.87	0.06	16.5	6.7	90
VA-06-19		1.50	27.8	0.06	6.3	0.065	0.51	27.6	8.8	0.08	21	2.63	0.06	14.9	5.8	110
VA-06-20		3.23	29.9	0.05	5.8	0.076	0.76	16.1	7.6	0.12	26	5.60	0.07	12.6	5.3	100



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Project: SHIPMENT 1

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Plus Appendix Pages  
Finalized Date: 4-SEP-2020  
Account: HOLDFAST

# **CERTIFICATE OF ANALYSIS PH20171345**

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-05-12		19.1	18.3	<0.002	0.01	0.45	21.1	1	3.8	34.0	1.17	0.05	14.20	0.711	2.2
VA-05-13		20.7	19.1	<0.002	0.01	0.50	19.5	<1	3.8	37.9	1.19	<0.05	13.75	0.733	2.4
VA-05-14		22.3	18.4	<0.002	0.01	0.50	17.9	1	3.8	41.6	1.24	<0.05	12.35	0.788	2.5
VA-05-15		21.6	15.4	<0.002	0.01	0.52	15.6	<1	3.9	38.3	1.35	<0.05	12.25	0.888	2.8
VA-05-16		19.8	8.3	<0.002	0.01	0.63	12.2	1	4.0	24.3	2.09	0.06	14.05	1.255	3.4
VA-05-17		18.7	10.1	<0.002	0.01	0.63	12.4	1	4.2	28.5	1.95	0.07	13.70	1.225	3.0
VA-05-18		23.7	21.6	<0.002	0.01	0.43	9.8	1	3.2	52.0	0.92	0.06	7.56	0.592	2.3
VA-05-19		23.1	33.7	<0.002	0.01	0.43	10.2	1	3.5	43.6	0.87	0.07	8.00	0.571	2.3
VA-05-20		22.1	46.7	<0.002	0.01	0.54	12.8	1	3.6	37.3	0.90	0.11	11.50	0.600	2.6
VA-05-21		15.7	51.6	<0.002	0.01	0.39	13.4	1	4.0	34.1	1.00	0.08	11.05	0.651	2.6
VA-05-22		14.1	50.6	<0.002	0.01	0.33	13.1	1	3.4	28.7	0.88	0.07	18.50	0.558	3.4
VA-05-23		11.2	50.0	<0.002	0.01	0.32	12.3	1	3.3	25.9	0.89	0.05	14.20	0.548	2.9
VA-05-24		22.7	41.5	<0.002	0.01	0.34	11.2	1	3.3	57.7	0.91	0.06	24.7	0.495	2.5
VA-05-25		19.1	19.5	<0.002	0.02	0.24	9.8	1	2.3	95.9	0.69	<0.05	29.6	0.380	2.4
VA-06-01		35.5	28.7	<0.002	0.01	1.38	13.1	2	2.7	28.5	0.71	0.29	13.45	0.434	2.2
VA-06-02		40.2	32.4	<0.002	0.01	1.11	14.0	3	3.5	37.4	0.85	0.22	11.85	0.493	2.9
VA-06-03		28.7	30.4	<0.002	0.01	0.84	13.3	1	3.3	38.9	0.85	0.18	10.90	0.509	2.5
VA-06-04		23.2	29.1	<0.002	0.01	0.69	14.0	1	3.5	38.9	0.87	0.11	11.45	0.526	1.9
VA-06-05		15.9	23.9	<0.002	<0.01	0.47	13.5	1	3.4	32.1	0.82	0.08	11.25	0.499	1.4
VA-06-06		14.4	20.8	<0.002	<0.01	0.43	13.2	<1	3.2	29.2	0.81	0.07	10.65	0.490	1.2
VA-06-07		12.9	19.0	<0.002	0.01	0.38	12.7	<1	3.1	29.5	0.81	0.06	9.98	0.485	1.2
VA-06-08		14.1	19.3	<0.002	<0.01	0.39	14.3	1	3.3	30.1	0.83	<0.05	10.70	0.495	1.3
VA-06-09		18.0	17.5	<0.002	0.01	0.44	15.1	<1	3.3	30.2	0.90	0.07	12.50	0.512	1.4
VA-06-10		21.5	16.4	<0.002	0.01	0.48	18.0	<1	3.6	33.8	0.98	0.08	14.60	0.575	1.6
VA-06-11		24.5	16.0	<0.002	0.01	0.54	20.7	<1	3.9	35.4	1.13	0.08	16.85	0.653	1.8
VA-06-12		24.7	11.5	<0.002	0.01	0.54	23.9	<1	4.1	36.4	1.22	0.09	17.35	0.725	1.9
VA-06-13		20.8	10.9	<0.002	0.01	0.54	21.1	<1	4.2	31.8	1.28	0.07	16.05	0.767	1.8
VA-06-14		20.3	8.9	<0.002	0.01	0.58	18.0	<1	4.4	27.6	1.72	0.09	16.50	0.991	2.1
VA-06-15		16.3	4.2	<0.002	0.01	0.77	12.5	1	5.1	17.1	2.18	0.09	15.25	1.735	3.3
VA-06-16		14.7	5.0	<0.002	0.01	0.67	11.2	1	4.3	16.5	2.21	0.05	12.50	1.405	2.7
VA-06-17		24.5	18.0	<0.002	0.01	0.58	12.4	4	4.2	33.2	1.52	0.13	12.65	0.968	2.4
VA-06-18		20.6	24.3	<0.002	0.01	0.55	12.8	1	4.3	43.8	1.28	0.08	11.90	0.847	2.2
VA-06-19		18.9	35.1	<0.002	0.01	0.47	13.3	1	4.1	67.2	1.17	0.09	11.10	0.722	2.4
VA-06-20		23.1	51.0	<0.002	0.01	0.37	12.7	1	3.5	38.3	1.01	0.16	10.30	0.624	2.4



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**CERTIFICATE OF ANALYSIS PH20171345**

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	Au-AA26 Au ppm 0.01	OA-GRA08d S.G. Unity 0.01
VA-05-12		87	2.9	7.1	27	168.5		
VA-05-13		95	3.1	7.7	25	162.0		
VA-05-14		90	2.9	8.0	25	174.5		
VA-05-15		74	4.8	8.4	22	175.0		
VA-05-16		67	10.0	10.7	12	263		
VA-05-17		70	9.2	11.0	8	241		
VA-05-18		139	2.3	8.3	6	131.0		
VA-05-19		400	2.1	8.9	7	156.0		
VA-05-20		860	2.4	11.7	9	232		2.84
VA-05-21		566	2.4	12.5	10	243		
VA-05-22		435	2.1	11.5	13	198.5		
VA-05-23		378	1.9	10.3	12	182.5		
VA-05-24		269	2.1	9.5	9	181.5		
VA-05-25		132	1.9	9.1	8	169.5		
VA-06-01		454	2.0	9.6	12	135.0		
VA-06-02		389	2.6	7.8	14	134.5		
VA-06-03		278	2.3	7.2	14	152.5		
VA-06-04		215	2.4	7.1	15	132.5		
VA-06-05		113	2.6	6.6	13	125.0		
VA-06-06		107	2.9	6.4	12	118.0		
VA-06-07		91	3.1	6.8	12	117.5		
VA-06-08		93	3.2	7.1	15	119.0		
VA-06-09		106	3.0	7.4	17	126.0		
VA-06-10		114	2.8	8.0	18	143.0		
VA-06-11		127	2.9	7.9	20	151.5		
VA-06-12		114	2.8	7.0	26	168.0		
VA-06-13		109	3.1	7.4	23	175.5		
VA-06-14		119	4.4	8.4	18	204		
VA-06-15		126	10.9	12.6	7	339		
VA-06-16		112	11.5	10.7	7	287		
VA-06-17		343	4.9	10.4	5	219		
VA-06-18		206	3.3	8.8	7	190.5		
VA-06-19		151	2.8	8.9	8	219		
VA-06-20		441	2.2	8.9	8	205		



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<b>CERTIFICATE OF ANALYSIS</b>	<b>PH20171345</b>
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	<b>CERTIFICATE COMMENTS</b>
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	<b>ANALYTICAL COMMENTS</b>
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Applies to Method:

REEs may not be totally soluble in this method.  
ME-MS61

	<b>ACCREDITATION COMMENTS</b>
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Applies to Method:

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  
Au-AA26 ME-MS61

	<b>LABORATORY ADDRESSES</b>
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Applies to Method:

Processed at ALS Perth located at 31 Denninup Way, Malaga, Australia. Processed at ALS Perth Sample Preparation at 79 Distinction Road, Wangara, WA, Australia

Au-AA26	BAG-01	LEV-01	LOG-22
ME-MS61	OA-GRA08d	PUL-23	PUL-QC
SPL-21	TRA-21	WEI-21	