



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: 2 (A - D)

Plus Appendix Pages

Finalized Date: 14-SEP-2020

This copy reported on 23-SEP-2020

Account: **HOLDFAST**

CERTIFICATE PH20179891

Project: SHIPMENT 3

This report is for 38 Percussion samples submitted to our lab in Perth, WA, Australia on 19-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
PUL-QC	Pulverizing QC Test
TRA-21	Transfer sample
LOG-22	Sample login - Rcd w/o BarCode
PUL-23	Pulv Sample - Split/Retain
BAG-01	Bulk Master for Storage
SPL-21	Split sample - riffle splitter

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	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	ME-MS61 Fe % 0.01
VA-15-01		5.12	0.04	5.43	4.3	60	0.88	0.35	0.05	<0.02	36.6	8.7	75	3.05	14.7	2.35
VA-15-02		3.89	0.04	7.49	4.7	70	1.10	0.41	0.05	<0.02	45.7	8.3	80	4.06	22.7	2.98
VA-15-03		3.59	0.03	8.50	5.6	70	1.37	0.41	0.06	0.03	52.8	7.8	90	4.34	23.5	3.52
VA-15-04		3.59	0.05	8.99	7.0	70	1.29	0.49	0.05	<0.02	58.6	7.2	111	3.96	27.3	4.04
VA-15-05		2.86	0.05	10.65	7.8	80	1.23	0.51	0.05	<0.02	87.3	5.9	136	3.90	23.9	4.58
VA-15-06		3.35	0.04	10.90	6.7	80	0.96	0.57	0.04	<0.02	100.5	5.1	92	3.56	23.3	3.73
VA-15-07		4.02	0.05	10.75	6.2	80	1.02	0.56	0.04	<0.02	102.5	5.4	100	3.47	21.8	3.84
VA-15-08		4.51	0.07	10.95	6.3	60	0.90	0.61	0.04	0.02	63.7	3.8	89	3.28	19.2	3.68
VA-15-09		3.75	0.07	11.35	6.1	60	0.85	0.63	0.04	0.03	53.3	3.4	87	3.28	19.8	3.57
VA-15-10		4.83	0.09	11.80	6.0	70	0.84	0.66	0.04	0.02	79.1	3.5	89	3.24	20.0	3.67
VA-15-11		4.52	0.08	11.35	5.4	70	0.82	0.63	0.03	0.02	103.0	3.8	94	2.84	19.3	3.38
VA-15-12		4.35	0.06	12.30	7.4	70	0.76	0.70	0.04	<0.02	80.6	3.4	89	2.85	21.4	3.33
VA-15-13		4.12	0.08	12.80	5.6	80	0.76	0.71	0.03	0.02	85.3	3.9	98	2.87	22.9	3.42
VA-15-14		5.61	0.09	11.85	8.9	70	0.76	0.68	0.03	<0.02	72.5	3.2	108	2.61	24.6	3.46
VA-15-15		4.23	0.12	11.60	9.2	50	0.66	0.68	0.02	0.03	54.6	2.2	106	2.43	24.0	3.52
VA-15-16		4.07	0.10	11.90	6.2	50	0.68	0.70	0.02	<0.02	54.0	1.9	100	2.36	21.1	2.87
VA-15-17		4.26	0.09	11.10	6.7	50	0.57	0.69	0.02	<0.02	50.7	1.8	102	2.25	20.9	2.87
VA-15-18		4.45	0.10	11.65	6.7	50	0.66	0.68	0.02	0.02	50.5	2.0	97	2.40	22.1	3.06
VA-15-19		3.32	0.10	12.90	6.0	50	0.58	0.71	0.02	0.03	54.6	1.9	98	2.42	22.2	2.85
VA-15-20		2.91	0.08	12.25	6.4	50	0.56	0.71	0.02	<0.02	48.9	1.6	97	2.25	19.7	2.65
VA-15-21		2.79	0.11	14.00	6.5	60	0.63	0.76	0.02	<0.02	54.3	1.9	104	2.68	23.0	2.79
VA-15-22		2.95	0.10	14.10	5.4	60	0.63	0.76	0.02	<0.02	58.4	1.7	106	2.80	22.7	2.56
VA-15-23		3.72	0.11	13.95	6.0	60	0.57	0.74	0.02	0.02	60.8	1.5	97	2.56	22.4	2.36
VA-15-24		3.63	0.13	12.80	4.4	60	0.56	0.77	0.02	0.02	60.9	1.4	96	2.20	21.4	2.19
VA-15-25		3.32	0.12	13.00	6.3	70	0.58	0.74	0.02	<0.02	66.3	1.6	91	2.33	22.0	2.36
VA-15-26		4.08	0.12	13.60	4.7	80	0.55	0.80	0.02	<0.02	62.2	1.3	89	2.18	20.8	2.23
VA-15-27		3.99	0.13	13.05	4.8	90	0.55	0.76	0.02	<0.02	78.6	1.2	85	2.46	18.5	1.85
VA-15-28		4.37	0.12	11.80	2.2	130	0.66	0.62	0.02	<0.02	57.0	1.1	76	3.31	14.2	1.20
VA-15-29		3.47	0.08	11.50	2.7	140	0.62	0.58	0.02	0.02	47.9	1.1	74	3.28	13.3	1.05
VA-15-30		3.25	0.06	10.35	1.3	140	0.57	0.55	0.02	0.02	46.1	1.0	65	2.99	11.9	0.82
VA-15-31		3.59	0.09	11.25	1.8	150	0.65	0.59	0.02	0.02	52.7	1.1	72	3.39	13.8	0.91
VA-15-32		2.81	0.07	11.05	1.9	160	0.66	0.56	0.02	<0.02	58.8	2.1	68	3.08	18.6	0.97
VA-15-33		3.76	0.09	6.36	2.6	160	0.44	0.50	0.02	<0.02	47.2	1.1	51	1.79	10.4	0.83
VA-15-34		3.23	0.04	9.32	2.2	370	0.91	0.64	0.03	<0.02	137.0	1.4	53	2.51	15.6	0.83
VA-15-35		2.92	0.05	10.65	3.0	510	1.27	0.70	0.03	<0.02	160.5	0.9	48	3.32	21.2	0.71
VA-15-36		3.06	0.02	11.55	16.9	240	1.63	0.60	0.03	0.02	56.7	1.2	84	3.59	18.0	5.16
VA-15-37		3.03	0.03	11.75	3.8	330	1.38	0.63	0.03	<0.02	120.5	0.9	52	3.40	12.2	1.04
VA-15-38		2.18	0.02	12.60	4.9	280	1.48	0.61	0.03	<0.02	82.5	1.1	53	4.32	13.2	1.31



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Sample Description	Method Analyte Units LOD	ME-MS61 Ga ppm 0.05	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME-MS61 Mn ppm 5	ME-MS61 Mo ppm 0.05	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2	ME-MS61 P ppm 10	ME-MS61 Pb ppm 0.5
VA-15-01		13.10	0.09	3.0	0.042	0.19	18.6	16.0	0.05	173	0.97	0.01	8.4	14.6	120	12.1
VA-15-02		18.65	0.08	3.7	0.065	0.22	19.3	23.4	0.06	119	1.18	0.01	10.1	19.8	110	14.7
VA-15-03		21.3	0.10	4.0	0.067	0.23	20.6	25.8	0.06	115	1.35	0.01	11.2	20.5	120	16.8
VA-15-04		22.3	0.08	4.1	0.075	0.23	20.7	25.1	0.06	122	1.51	0.01	11.1	19.7	140	18.8
VA-15-05		25.9	0.10	4.2	0.091	0.22	25.1	26.3	0.06	154	1.87	0.01	12.6	19.6	160	23.4
VA-15-06		28.1	0.11	4.6	0.112	0.17	28.4	25.1	0.05	213	2.13	0.01	14.1	17.7	170	27.9
VA-15-07		28.3	0.08	4.4	0.108	0.17	26.3	25.4	0.05	227	2.10	0.01	14.6	17.4	170	28.5
VA-15-08		27.0	0.09	4.4	0.097	0.15	26.1	23.6	0.04	179	2.15	0.01	13.9	15.7	180	25.4
VA-15-09		29.4	0.13	4.8	0.111	0.14	26.4	25.5	0.04	185	2.42	0.01	15.4	16.9	180	24.7
VA-15-10		29.1	0.09	4.9	0.117	0.13	30.1	24.2	0.04	214	2.49	0.01	15.7	16.3	190	28.6
VA-15-11		29.5	0.10	4.9	0.120	0.11	31.4	22.5	0.04	255	2.70	0.01	16.0	15.3	200	32.3
VA-15-12		31.4	0.10	5.0	0.131	0.11	32.5	22.1	0.05	225	2.74	0.01	17.0	16.1	200	31.8
VA-15-13		33.7	0.13	5.4	0.137	0.12	31.1	23.2	0.04	240	2.99	0.01	18.1	16.8	230	33.4
VA-15-14		31.0	0.12	4.9	0.122	0.11	32.4	20.3	0.04	179	2.94	0.01	15.8	16.5	260	30.7
VA-15-15		29.9	0.12	4.6	0.129	0.10	28.4	17.6	0.04	97	3.28	0.01	15.1	15.2	270	26.7
VA-15-16		32.1	0.11	5.1	0.134	0.09	31.2	18.2	0.04	77	3.05	0.01	16.3	15.3	200	29.8
VA-15-17		29.2	0.12	4.6	0.126	0.08	29.8	16.1	0.03	80	2.95	0.01	15.3	14.3	220	27.0
VA-15-18		30.9	0.11	4.7	0.128	0.09	29.2	17.2	0.04	76	2.93	0.01	15.6	15.6	210	29.4
VA-15-19		34.3	0.15	5.2	0.145	0.09	32.3	16.4	0.04	100	3.20	0.01	17.4	16.2	230	31.8
VA-15-20		30.9	0.14	5.0	0.135	0.08	29.8	13.2	0.03	92	2.91	0.01	15.6	14.8	210	30.0
VA-15-21		36.2	0.13	5.6	0.152	0.09	35.1	15.5	0.04	102	3.21	0.01	18.7	17.6	210	33.1
VA-15-22		36.8	0.16	5.9	0.163	0.09	38.3	15.8	0.04	99	3.44	0.01	19.4	18.2	220	33.4
VA-15-23		35.1	0.14	5.8	0.160	0.09	36.1	14.4	0.04	86	3.27	0.01	19.3	17.2	220	33.0
VA-15-24		34.0	0.13	5.6	0.155	0.08	33.8	13.2	0.03	81	3.41	0.01	18.9	16.0	210	33.3
VA-15-25		33.7	0.13	5.5	0.153	0.09	36.0	13.9	0.04	81	3.40	0.01	18.1	16.0	220	32.8
VA-15-26		34.8	0.14	5.8	0.164	0.09	32.3	12.4	0.04	80	3.58	0.01	19.0	15.8	220	35.5
VA-15-27		33.4	0.15	5.8	0.164	0.10	41.0	11.2	0.03	63	3.36	0.01	18.3	13.9	210	34.2
VA-15-28		29.7	0.13	5.0	0.138	0.16	32.6	9.4	0.04	29	2.60	0.02	15.2	12.7	160	26.8
VA-15-29		28.3	0.12	4.4	0.141	0.17	27.9	8.5	0.04	21	2.53	0.02	14.5	12.1	130	23.4
VA-15-30		25.4	0.09	4.3	0.121	0.17	26.0	7.5	0.04	17	2.40	0.02	13.7	10.6	120	22.2
VA-15-31		27.5	0.14	4.6	0.138	0.18	29.6	8.2	0.04	18	2.62	0.02	14.1	11.7	140	26.0
VA-15-32		26.4	0.14	4.2	0.121	0.19	32.8	7.9	0.04	19	2.58	0.02	14.1	11.2	150	26.2
VA-15-33		17.00	0.13	5.2	0.084	0.11	26.0	7.1	0.03	28	3.61	0.02	20.3	7.4	110	22.1
VA-15-34		23.7	0.16	4.8	0.064	0.37	71.4	7.3	0.06	26	2.68	0.04	16.0	6.4	300	43.3
VA-15-35		29.9	0.18	5.6	0.059	0.58	87.9	9.1	0.09	17	2.24	0.05	14.6	6.6	380	39.8
VA-15-36		27.0	0.17	4.3	0.055	0.73	29.5	9.2	0.11	16	2.92	0.05	10.9	17.4	180	20.4
VA-15-37		26.5	0.18	4.7	0.046	0.71	60.7	9.2	0.11	16	1.75	0.05	11.9	6.9	240	26.8
VA-15-38		27.5	0.12	4.4	0.044	0.80	43.7	10.5	0.12	17	1.68	0.06	12.4	14.5	180	22.4



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VA-15-01		35.4	<0.002	0.01	0.42	9.3	<1	2.1	23.4	0.67	0.05	8.73	0.397	0.30	1.3	71
VA-15-02		43.2	<0.002	0.01	0.50	12.5	<1	2.8	29.4	0.83	0.07	10.50	0.481	0.34	1.8	93
VA-15-03		40.9	<0.002	0.01	0.53	13.5	<1	3.0	33.0	0.93	0.07	11.40	0.513	0.37	1.9	111
VA-15-04		37.0	<0.002	0.01	0.57	14.2	<1	3.1	35.2	0.91	<0.05	11.50	0.538	0.36	2.0	133
VA-15-05		30.2	<0.002	0.01	0.62	16.6	<1	3.6	39.1	1.07	0.10	13.30	0.606	0.42	2.3	152
VA-15-06		20.9	<0.002	0.01	0.68	18.4	<1	3.9	40.3	1.15	0.10	14.90	0.647	0.45	2.1	132
VA-15-07		20.4	<0.002	0.01	0.65	18.3	<1	4.1	40.9	1.12	0.07	14.70	0.654	0.44	2.1	139
VA-15-08		16.9	<0.002	0.01	0.62	19.8	<1	4.0	39.5	1.19	0.07	15.45	0.666	0.36	2.2	138
VA-15-09		14.5	<0.002	0.01	0.70	21.4	<1	4.3	41.8	1.27	0.08	16.85	0.709	0.31	2.4	134
VA-15-10		14.3	<0.002	0.01	0.68	21.7	<1	4.2	41.1	1.30	0.07	18.95	0.750	0.35	2.5	141
VA-15-11		11.7	<0.002	0.01	0.68	22.7	<1	4.3	40.1	1.32	0.09	19.25	0.757	0.34	2.6	137
VA-15-12		11.6	<0.002	0.01	0.69	24.9	<1	4.6	42.5	1.34	0.13	20.2	0.798	0.26	2.9	138
VA-15-13		12.1	<0.002	0.01	0.69	25.7	<1	4.8	43.0	2.08	0.14	21.0	0.818	0.26	3.0	142
VA-15-14		11.7	<0.002	0.01	0.70	25.1	<1	4.5	40.4	1.30	0.12	19.95	0.761	0.25	3.2	147
VA-15-15		9.9	<0.002	0.01	0.67	24.5	<1	4.3	39.4	1.19	0.11	19.15	0.713	0.16	3.1	152
VA-15-16		9.4	<0.002	0.01	0.68	24.8	<1	4.5	43.7	1.38	0.12	21.3	0.765	0.18	2.9	127
VA-15-17		8.9	<0.002	0.01	0.62	23.0	<1	4.3	38.2	1.23	0.14	18.95	0.729	0.15	2.7	133
VA-15-18		10.0	<0.002	0.01	0.70	24.3	<1	4.5	42.8	1.22	0.11	20.1	0.741	0.16	3.0	136
VA-15-19		8.6	<0.002	0.01	0.73	26.9	<1	4.8	48.4	1.36	0.10	21.8	0.813	0.15	3.0	135
VA-15-20		7.7	<0.002	0.01	0.60	24.7	<1	4.4	41.2	1.31	0.10	20.7	0.793	0.13	2.7	131
VA-15-21		8.8	<0.002	0.01	0.70	28.7	1	4.9	47.3	1.45	0.08	24.2	0.886	0.19	3.0	139
VA-15-22		8.6	<0.002	0.01	0.70	29.5	1	5.1	48.9	1.56	0.09	25.4	0.936	0.19	3.1	134
VA-15-23		8.0	<0.002	0.01	0.66	29.1	1	5.1	51.0	1.53	0.08	26.4	0.923	0.19	3.2	123
VA-15-24		7.1	<0.002	0.01	0.66	27.2	<1	5.1	50.1	1.53	0.08	26.0	0.876	0.19	3.3	122
VA-15-25		8.2	<0.002	0.01	0.66	27.9	<1	4.9	50.2	1.41	0.12	25.5	0.861	0.17	3.2	122
VA-15-26		7.3	<0.002	<0.01	0.67	30.2	<1	5.1	52.9	1.52	0.08	25.8	0.909	0.19	3.3	123
VA-15-27		9.4	<0.002	<0.01	0.64	28.5	1	4.7	57.0	1.49	0.10	26.7	0.856	0.17	3.2	111
VA-15-28		16.5	<0.002	<0.01	0.52	26.0	1	3.8	48.1	1.26	0.06	16.60	0.742	0.22	2.8	84
VA-15-29		17.5	<0.002	<0.01	0.51	24.9	<1	3.7	44.8	1.17	0.05	13.95	0.717	0.19	2.5	81
VA-15-30		16.7	<0.002	<0.01	0.46	21.7	<1	3.4	43.7	1.09	<0.05	12.05	0.662	0.21	2.4	68
VA-15-31		18.6	<0.002	<0.01	0.49	22.4	<1	3.6	49.1	1.17	<0.05	12.90	0.704	0.22	2.5	76
VA-15-32		18.6	<0.002	<0.01	0.48	21.3	<1	3.6	51.4	1.14	0.05	11.55	0.723	0.20	2.4	77
VA-15-33		10.5	<0.002	<0.01	0.65	16.1	<1	3.9	35.4	1.70	0.07	13.35	1.030	0.13	2.7	71
VA-15-34		23.5	<0.002	<0.01	0.58	13.6	<1	3.9	108.0	1.25	0.05	14.80	0.805	0.19	2.3	83
VA-15-35		36.7	<0.002	0.01	0.61	12.5	<1	4.0	131.0	1.13	<0.05	13.35	0.682	0.26	2.3	99
VA-15-36		44.4	<0.002	<0.01	0.48	11.5	2	3.3	45.9	0.85	0.08	8.04	0.516	0.26	2.6	579
VA-15-37		41.1	<0.002	<0.01	0.47	11.0	1	3.4	86.5	0.96	<0.05	10.40	0.595	0.27	2.1	152
VA-15-38		50.5	<0.002	<0.01	0.50	10.5	<1	3.7	65.5	0.94	<0.05	8.25	0.594	0.30	1.9	178



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Finalized Date: 14-SEP-2020

Account: HOLDFAST

CERTIFICATE OF ANALYSIS PH20179891

Sample Description	Method Analyte Units LOD	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	PUL-QC Pass75um % 0.01
VA-15-01		2.1	13.4	13	108.0	91.1
VA-15-02		2.1	11.8	17	123.5	
VA-15-03		2.1	11.3	19	131.0	
VA-15-04		2.1	10.5	21	135.0	
VA-15-05		2.4	9.5	25	142.5	
VA-15-06		2.5	8.4	26	148.5	88.0
VA-15-07		2.4	8.3	26	152.5	
VA-15-08		2.5	7.5	26	145.0	
VA-15-09		2.9	7.6	26	157.0	
VA-15-10		2.8	8.2	27	160.0	
VA-15-11		2.9	8.1	29	164.0	
VA-15-12		2.9	8.5	33	172.0	
VA-15-13		3.0	8.7	34	178.5	
VA-15-14		2.8	8.8	32	167.5	
VA-15-15		2.7	8.2	31	161.0	
VA-15-16		3.0	7.8	33	168.0	
VA-15-17		2.6	7.1	31	156.5	
VA-15-18		2.6	7.1	32	167.0	
VA-15-19		2.7	8.0	35	181.0	
VA-15-20		2.6	7.1	33	181.5	
VA-15-21		2.9	8.1	38	191.5	
VA-15-22		3.0	8.4	38	199.0	
VA-15-23		2.9	8.4	39	200	
VA-15-24		3.0	7.8	38	194.5	
VA-15-25		2.9	8.1	38	190.5	
VA-15-26		3.0	7.5	40	197.0	
VA-15-27		3.0	8.5	41	192.5	
VA-15-28		2.6	7.3	40	160.0	
VA-15-29		2.4	6.8	37	153.0	
VA-15-30		2.3	6.6	32	143.0	
VA-15-31		2.4	6.9	35	148.0	
VA-15-32		12.7	7.0	33	147.0	
VA-15-33		5.3	8.6	18	180.5	
VA-15-34		7.4	9.0	13	165.0	
VA-15-35		2.5	10.0	12	183.0	
VA-15-36		1.9	8.9	12	150.0	
VA-15-37		2.1	9.3	11	152.0	
VA-15-38		2.2	8.3	10	148.0	



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Finalized Date: **14-SEP-2020**

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Project: **SHIPMENT 3**

CERTIFICATE OF ANALYSIS PH20179891

	CERTIFICATE COMMENTS			
Applies to Method:	ANALYTICAL COMMENTS			
	REEs may not be totally soluble in this method. ME-MS61			
	ACCREDITATION COMMENTS			
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 ME-MS61			
Applies to Method:	LABORATORY ADDRESSES			
	Processed at ALS Perth located at 31 Denninup Way, Malaga, Australia. Processed at ALS Perth Sample Preparation at 79 Distinction Road, Wangara, WA, Australia			
	BAG-01 PUL-23 WEI-21	LEV-01 PUL-QC	LOG-22 SPL-21	ME-MS61 TRA-21