



Australian Laboratory Services Pty. Ltd.

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WEST PERTH WA 6872

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Plus Appendix Pages  
Finalized Date: 12-APR-2024  
Account: FORMET

## CERTIFICATE PH24081422

Project: SS000325

P.O. No.: 4501589913

This report is for 104 samples of RC Drill Chip submitted to our lab in Perth, WA, Australia on 27-MAR-2024.

The following have access to data associated with this certificate:

GREG AMALRIC  
KAITLIN CATALANO  
KIT LAI  
ASHLEIGH SMYTH

JACQUES BATUMIKEMWANDULO  
MIGUEL CORTES  
RUAIRIDH MITCHELL  
KURT STEFFENS

KARL BOOTH  
PERTH DATA  
CRAIG PEREIRA

## SAMPLE PREPARATION

ALS CODE	DESCRIPTION
LEV-01	Waste Disposal Levy
LOG-20	Sample login – Additional Analysis
FND-02	Find Sample for Addn Analysis

## ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-MS61L	Super Trace Lowest DL 4A by 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	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L
		Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe	Ga
		ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		0.002	0.01	0.02	1	0.02	0.002	0.01	0.005	0.01	0.005	0.3	0.01	0.02	0.002	0.05
GD034001		0.024	6.92	1.04	420	2.06	0.152	0.90	0.027	71.2	3.65	19.4	16.25	2.02	1.630	18.75
GD034002		0.037	7.04	1.22	378	2.00	0.114	0.74	0.192	78.2	2.61	17.0	16.25	6.30	1.510	19.20
GD034003		0.157	7.15	1.48	310	1.80	0.243	0.23	<0.005	68.6	2.29	12.0	17.40	2.57	1.600	21.5
GD034004		0.036	7.13	1.88	291	1.92	0.063	0.15	<0.005	80.2	1.400	9.0	20.3	3.55	1.200	21.5
GD034005		0.093	7.54	1.80	295	2.06	0.385	0.12	<0.005	65.8	1.395	9.7	21.5	2.36	1.200	21.5
GD034006		0.130	7.25	1.32	293	1.94	1.160	0.23	<0.005	79.1	0.984	11.8	20.8	26.0	1.280	21.6
GD034007		0.064	6.76	0.53	199	3.77	0.688	0.09	<0.005	30.0	0.368	10.8	15.65	1.12	0.580	19.60
GD034008		0.208	7.14	0.54	195	2.51	1.760	0.19	<0.005	33.3	0.429	12.2	15.65	3.33	0.620	20.3
GD034009		0.252	7.05	0.75	29	1.66	18.10	0.18	<0.005	10.95	0.348	10.5	18.25	2.90	0.750	29.0
GD034010		0.016	7.70	0.77	373	2.63	0.239	0.37	<0.005	89.7	1.975	11.8	21.3	1.36	1.300	21.5
GD034011		0.036	7.23	0.78	313	2.23	1.790	0.22	<0.005	63.0	1.065	10.8	18.75	2.06	0.780	21.5
GD034012		0.020	6.88	0.55	165	4.48	0.410	0.33	<0.005	21.3	0.783	9.2	28.1	0.91	0.810	19.15
GD034013		0.089	6.69	0.39	191	2.29	1.345	0.21	<0.005	21.6	0.283	11.5	14.40	0.96	0.440	16.45
GD034014		0.111	7.61	0.40	354	3.16	0.896	0.21	<0.005	65.9	0.430	8.8	19.00	3.92	0.460	20.5
GD034015		0.041	7.29	0.46	202	3.05	0.914	0.20	<0.005	23.9	0.408	9.7	21.8	1.89	0.560	17.10
GD034016		0.021	7.19	0.52	208	3.31	0.675	0.25	<0.005	21.9	0.261	10.6	19.80	1.31	0.580	17.55
GD034017		0.037	7.02	0.52	189	3.09	2.97	0.21	<0.005	18.05	1.200	10.3	26.6	1.35	1.280	18.00
GD034018		0.042	7.22	0.52	194	2.81	0.764	0.15	<0.005	20.8	0.439	9.8	16.55	1.46	0.870	17.20
GD034019		0.076	6.95	0.55	208	2.23	1.650	0.12	<0.005	16.20	0.443	9.6	15.25	10.10	0.830	16.25
GD034020		0.250	6.45	5.82	34	4.23	6.54	0.08	<0.005	4.15	0.545	6.8	35.6	7.25	1.300	30.7
GD034021		0.026	6.05	1.68	29	17.90	2.12	0.25	<0.005	14.35	0.494	11.8	68.1	1.36	1.240	26.2
GD034022		0.096	6.27	1.73	45	10.40	15.70	0.24	0.020	17.10	0.682	11.8	46.8	2.23	1.410	26.6
GD034023		0.079	10.25	9.35	204	1.20	0.205	0.10	0.016	26.5	42.7	423	3.56	351	14.40	25.1
GD034024		0.079	7.14	0.68	50	4.15	1.675	0.06	<0.005	4.91	0.369	6.8	28.0	1.36	1.120	30.3
GD034025		0.070	6.53	0.85	32	4.68	106.5	0.16	<0.005	5.08	0.402	8.6	33.5	1.26	1.120	28.1
GD034026		0.104	4.03	0.55	17	1.78	457	0.02	<0.005	3.66	1.865	17.8	2.23	0.93	3.08	36.8
GD034027		0.011	6.33	1.04	36	8.22	2.90	0.17	<0.005	10.15	0.418	11.1	27.4	1.18	1.320	27.8
GD034028		0.008	6.57	1.38	42	14.75	3.77	0.18	<0.005	12.15	0.311	11.2	39.3	0.96	1.260	28.5
GD034029		0.070	6.31	1.94	38	19.05	5.57	0.15	<0.005	19.00	0.582	10.0	61.8	1.40	1.250	25.5
GD034030		0.048	6.57	1.16	46	18.55	1.280	0.15	0.008	18.90	0.426	12.2	67.6	1.39	1.350	26.9
GD034030D		0.073	10.45	9.13	211	1.24	0.200	0.10	0.007	27.2	44.0	428	3.77	366	14.70	25.7
GD034031		0.048	6.47	1.62	69	10.20	0.993	0.04	<0.005	18.35	0.413	10.8	46.6	1.60	1.330	26.4
GD034032		0.015	6.74	36.4	216	14.75	0.566	0.28	<0.005	53.6	1.020	13.7	47.2	1.50	1.410	23.9
GD034033		0.029	6.47	1.55	68	16.70	1.770	0.19	<0.005	18.50	0.556	8.9	53.4	1.20	1.270	25.9
GD034034		0.032	6.83	0.92	69	4.77	3.29	0.09	0.006	11.30	0.400	11.6	26.6	1.68	0.920	24.4
GD034035		0.305	6.03	1.86	39	10.80	7.07	0.07	<0.005	8.93	0.768	8.7	21.4	3.45	0.990	24.6
GD034036		0.068	6.45	1.12	82	11.50	2.73	0.16	<0.005	20.0	0.579	11.3	45.5	2.80	1.250	27.4
GD034037		0.036	6.30	1.35	76	17.95	1.655	0.18	<0.005	23.8	0.510	10.1	67.6	1.30	1.310	25.6
GD034040		0.048	5.92	1.32	116	6.47	0.840	0.31	0.017	44.1	1.410	16.9	26.8	1.24	1.560	21.7
GD034041		0.110	6.63	0.45	30	12.65	0.832	0.16	<0.005	5.11	0.364	9.9	22.6	0.74	0.990	24.0



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Sample Description	Method Analyte Units LOD	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L
		Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
		ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
		0.05	0.004	0.005	0.01	0.005	0.2	0.01	0.2	0.02	0.001	0.005	0.08	0.001	0.01
GD034001		0.15	3.55	0.034	4.01	30.5	64.1	0.29	324	1.31	2.03	12.95	4.70	0.045	30.1
GD034002		0.16	3.74	0.050	4.32	33.9	68.1	0.27	355	1.37	1.990	13.85	3.61	0.059	33.7
GD034003		0.15	3.74	0.030	4.61	33.5	60.4	0.21	272	1.05	1.345	16.00	2.66	0.050	39.6
GD034004		0.13	3.55	0.035	4.84	38.9	28.2	0.14	208	2.87	1.220	16.75	1.75	0.061	39.4
GD034005		0.11	3.98	0.036	4.75	28.0	40.4	0.16	244	3.98	0.983	17.45	2.34	0.079	42.1
GD034006		0.14	3.57	0.101	4.82	37.1	40.2	0.16	302	1.43	1.535	14.65	1.49	0.071	42.8
GD034007		0.10	2.15	0.136	4.46	13.75	25.8	0.07	70.1	1.88	1.280	11.75	1.02	0.040	33.0
GD034008		0.09	2.34	0.115	4.36	14.70	28.1	0.06	103.5	1.87	1.620	14.25	1.72	0.081	32.5
GD034009		0.05	1.780	0.228	3.45	4.34	24.8	0.03	112.5	1.26	2.49	24.8	1.28	0.030	21.9
GD034010		0.15	3.92	0.058	4.85	42.6	61.0	0.17	226	1.00	1.680	16.15	2.95	0.051	38.1
GD034011		0.11	3.34	0.038	4.75	26.7	47.7	0.08	110.0	0.87	1.390	15.50	2.23	0.047	38.5
GD034012		0.07	2.07	0.028	4.07	9.95	73.5	0.09	132.5	1.00	1.935	14.95	1.26	0.064	35.8
GD034013		0.07	1.950	0.037	4.03	10.15	30.9	0.05	61.3	0.91	1.840	13.75	0.84	0.069	36.3
GD034014		<0.05	2.92	0.068	4.62	28.5	34.9	0.05	47.9	0.80	1.760	16.90	1.84	0.063	47.9
GD034015		0.07	1.925	0.051	4.21	11.50	47.8	0.06	68.8	0.79	1.700	13.40	1.18	0.080	43.7
GD034016		0.05	1.910	0.081	4.41	9.83	27.4	0.05	63.8	0.91	1.930	12.35	1.30	0.077	41.9
GD034017		<0.05	1.990	0.032	4.30	8.39	130.0	0.13	191.0	0.99	1.575	14.75	2.30	0.061	45.3
GD034018		<0.05	1.860	0.032	4.42	10.15	29.0	0.06	71.8	0.89	1.585	13.95	2.00	0.056	49.9
GD034019		<0.05	1.890	0.036	4.48	7.94	16.8	0.07	67.5	0.84	1.355	13.10	1.80	0.067	44.6
GD034020		<0.05	1.435	0.447	3.57	1.840	339	0.04	302	0.97	1.965	19.75	1.19	0.039	13.75
GD034021		<0.05	2.07	0.033	3.80	5.60	259	0.04	286	1.08	2.20	19.05	1.73	0.084	11.65
GD034022		<0.05	2.19	0.050	3.96	6.72	172.0	0.04	281	1.45	2.06	19.20	1.30	0.086	13.70
GD034023		0.87	4.32	0.089	0.23	14.45	19.8	0.22	222	2.23	0.067	21.4	259	0.029	14.00
GD034024		<0.05	1.550	0.091	3.67	2.18	231	0.04	263	0.88	2.33	16.10	1.06	0.028	11.35
GD034025		0.09	1.575	0.051	3.58	1.960	232	0.02	223	0.96	2.49	25.4	1.95	0.087	9.20
GD034026		0.07	1.315	0.175	0.30	1.580	39.9	0.03	312	4.47	0.340	22.7	1.25	0.005	1.66
GD034027		0.10	2.10	0.057	3.68	3.88	169.0	0.02	222	1.40	2.26	16.80	0.91	0.086	10.55
GD034028		<0.05	2.35	0.054	3.97	4.78	218	0.03	254	1.35	2.35	19.70	1.29	0.095	13.00
GD034029		<0.05	2.27	0.048	3.88	7.81	232	0.04	234	1.05	2.09	18.55	1.05	0.072	15.40
GD034030		0.08	2.31	0.051	4.05	7.60	288	0.04	264	1.36	2.29	19.45	0.94	0.073	13.15
GD034030D		1.23	4.41	0.097	0.23	14.85	20.3	0.22	228	2.15	0.068	22.1	263	0.030	13.80
GD034031		0.14	2.14	0.043	3.83	8.31	285	0.08	201	1.10	1.870	18.55	2.00	0.037	14.20
GD034032		0.11	3.04	0.077	3.78	21.4	213	0.15	246	1.31	2.20	17.35	1.52	0.065	15.70
GD034033		0.09	1.940	0.025	3.90	7.58	187.0	0.04	285	1.10	2.15	17.90	0.95	0.076	14.75
GD034034		0.05	1.440	0.028	4.51	5.05	148.5	0.04	114.5	1.33	1.995	12.35	1.78	0.072	15.50
GD034035		0.05	0.844	0.023	3.42	3.61	115.5	0.04	104.5	1.02	1.165	13.35	1.00	0.072	13.25
GD034036		0.08	1.985	0.044	3.61	7.96	257	0.04	289	1.46	2.20	17.65	2.17	0.074	13.75
GD034037		0.07	2.49	0.043	3.89	9.94	225	0.06	247	1.18	2.12	17.55	1.39	0.070	12.45
GD034040		0.12	2.51	0.047	3.74	17.65	121.5	0.09	305	1.69	1.835	15.15	1.63	0.053	20.4
GD034041		0.06	0.405	0.062	4.37	2.25	98.2	0.04	168.0	1.15	1.880	9.48	0.70	0.053	22.0



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		Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	TI	U	V	W
		ppm 0.0004	% 0.01	ppm 0.02	ppm 0.01	ppm 0.006	ppm 0.02	ppm 0.02	ppm 0.01	ppm 0.005	ppm 0.004	% 0.001	ppm 0.002	ppm 0.01	ppm 0.1	ppm 0.008
GD034001		<0.0004	<0.01	0.08	5.21	0.026	9.48	110.0	1.62	<0.005	20.7	0.156	1.800	4.01	23.5	1.215
GD034002		<0.0004	0.01	0.08	4.79	0.022	16.95	101.0	1.72	<0.005	24.2	0.150	1.965	6.90	19.4	6.98
GD034003		<0.0004	0.01	0.09	4.12	0.228	8.61	62.3	2.03	<0.005	29.4	0.136	1.960	12.10	15.8	1.925
GD034004		<0.0004	0.02	0.11	3.27	0.066	14.90	62.9	2.24	<0.005	27.7	0.121	2.33	8.07	8.4	4.34
GD034005		<0.0004	0.02	0.07	3.56	0.118	14.65	56.9	2.28	<0.005	31.7	0.123	2.39	11.75	8.0	4.18
GD034006		<0.0004	0.01	0.11	3.34	0.064	28.3	76.8	2.22	<0.005	29.0	0.118	2.52	11.10	8.5	8.08
GD034007		<0.0004	<0.01	0.03	1.88	0.031	25.5	50.5	2.56	<0.005	7.60	0.075	2.21	3.54	2.7	11.65
GD034008		<0.0004	<0.01	0.03	3.28	0.026	21.9	56.1	2.90	<0.005	8.41	0.072	2.31	6.44	3.6	10.25
GD034009		<0.0004	<0.01	0.05	5.35	0.055	37.0	16.35	8.32	0.023	6.09	0.024	2.11	5.85	2.0	10.00
GD034010		<0.0004	0.01	0.03	4.19	0.049	17.55	76.8	2.20	<0.005	28.6	0.157	2.51	7.11	12.0	3.92
GD034011		<0.0004	0.01	0.05	3.63	0.153	9.96	59.4	2.12	<0.005	22.6	0.129	2.28	5.73	10.2	4.04
GD034012		<0.0004	<0.01	0.03	2.79	0.016	10.45	45.8	3.16	<0.005	6.55	0.071	2.03	3.97	6.3	3.15
GD034013		<0.0004	<0.01	0.04	2.65	0.035	11.50	50.4	2.44	<0.005	5.55	0.064	1.970	4.87	4.9	1.995
GD034014		<0.0004	0.01	0.05	3.05	0.104	15.95	75.3	2.43	<0.005	14.15	0.100	2.17	6.20	5.3	3.16
GD034015		<0.0004	0.01	0.04	2.54	0.028	17.05	51.7	2.65	0.006	5.31	0.065	1.940	6.22	4.9	4.94
GD034016		<0.0004	<0.01	0.04	2.56	0.019	19.05	56.2	2.26	<0.005	4.83	0.064	2.11	5.51	5.2	6.90
GD034017		0.0004	0.01	0.04	3.17	0.093	11.60	45.1	2.78	<0.005	5.40	0.066	2.07	5.35	6.0	2.15
GD034018		0.0004	0.01	0.05	2.75	0.157	12.85	54.6	2.85	<0.005	5.14	0.062	2.00	5.53	4.8	2.44
GD034019		<0.0004	0.01	0.05	2.77	0.195	16.30	49.3	2.69	0.014	4.45	0.061	2.10	6.10	5.2	3.76
GD034020		<0.0004	<0.01	0.41	2.08	0.031	24.5	12.25	7.05	<0.005	4.19	0.014	3.46	3.57	2.0	7.32
GD034021		0.0004	<0.01	0.27	2.17	0.011	11.60	11.40	5.13	<0.005	10.60	0.026	3.84	9.10	1.9	14.20
GD034022		0.0005	<0.01	0.37	2.35	0.023	10.80	15.90	4.66	0.007	12.05	0.026	3.63	5.23	2.0	33.2
GD034023		<0.0004	0.03	0.63	36.0	2.12	2.53	23.5	1.43	0.065	9.39	1.070	0.193	2.06	247	1.215
GD034024		0.0005	0.01	0.14	2.25	0.036	16.25	8.07	5.96	<0.005	4.97	0.017	3.56	8.98	1.6	4.43
GD034025		0.0005	<0.01	0.23	2.27	0.019	10.85	29.3	6.06	0.024	5.71	0.017	3.64	4.00	1.5	24.6
GD034026		0.0043	<0.01	0.31	4.29	0.016	5.23	6.98	5.83	0.061	2.39	0.024	0.323	7.73	1.7	400
GD034027		<0.0004	<0.01	0.24	1.97	0.032	10.85	17.40	4.18	<0.005	8.50	0.018	3.44	7.80	1.5	5.57
GD034028		0.0005	0.01	0.23	2.05	0.014	11.90	13.70	6.12	<0.005	10.50	0.019	3.71	6.24	1.8	5.38
GD034029		0.0005	<0.01	0.43	2.23	0.009	12.80	14.30	4.71	0.006	11.85	0.033	3.60	9.20	2.3	8.60
GD034030		0.0004	<0.01	0.29	2.31	0.015	11.05	11.75	4.76	<0.005	12.90	0.031	4.01	5.21	1.9	6.38
GD034030D		<0.0004	0.03	0.54	37.3	2.13	2.70	24.1	1.45	0.070	9.75	1.110	0.198	2.07	254	1.195
GD034031		<0.0004	<0.01	0.27	2.44	0.036	11.20	11.65	4.75	<0.005	10.85	0.025	3.61	7.02	1.8	3.32
GD034032		0.0004	0.01	0.26	3.59	0.028	16.65	62.9	3.04	<0.005	17.50	0.092	3.02	7.95	11.4	3.50
GD034033		<0.0004	<0.01	0.16	2.30	0.020	11.60	14.00	4.24	<0.005	11.55	0.028	3.73	5.80	2.2	5.46
GD034034		0.0005	<0.01	0.20	1.47	0.015	7.48	13.95	2.81	<0.005	6.29	0.024	3.52	14.85	1.9	19.85
GD034035		<0.0004	0.01	0.20	1.42	0.026	7.45	11.10	3.50	<0.005	6.07	0.020	2.61	10.80	1.6	2.40
GD034036		0.0010	0.01	0.38	2.14	0.009	10.45	26.4	4.08	<0.005	8.10	0.022	3.53	8.07	1.8	2.89
GD034037		<0.0004	<0.01	0.25	2.37	0.014	10.95	23.3	4.50	<0.005	13.50	0.041	3.52	4.33	3.3	8.76
GD034040		0.0005	<0.01	0.11	2.71	0.016	7.58	34.0	2.25	<0.005	17.45	0.071	2.45	3.09	6.1	7.64
GD034041		<0.0004	<0.01	0.11	1.32	0.011	16.85	8.38	2.69	<0.005	4.44	0.018	2.97	1.41	1.4	3.31



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## CERTIFICATE OF ANALYSIS PH24081422

Sample Description	Method Analyte Units LOD	ME-MS61L	ME-MS61L	ME-MS61L
		Y	Zn	Zr
		ppm	ppm	ppm
		0.01	0.2	0.1
GD034001		22.6	49.7	119.0
GD034002		20.3	78.6	126.0
GD034003		16.95	40.8	118.5
GD034004		9.03	42.6	120.5
GD034005		8.55	36.6	130.5
GD034006		12.70	82.0	120.5
GD034007		8.18	7.5	62.8
GD034008		12.40	10.2	67.6
GD034009		7.71	15.1	23.9
GD034010		10.90	37.8	128.5
GD034011		8.64	18.2	112.5
GD034012		9.03	18.0	55.5
GD034013		9.23	9.3	55.8
GD034014		6.43	10.4	91.6
GD034015		8.78	13.2	55.4
GD034016		9.64	9.2	55.7
GD034017		10.65	31.5	53.9
GD034018		6.08	11.8	52.6
GD034019		7.05	9.3	52.9
GD034020		3.39	26.7	20.2
GD034021		15.30	31.4	44.8
GD034022		16.15	44.6	47.4
GD034023		10.45	34.9	182.5
GD034024		3.53	33.0	24.7
GD034025		5.75	22.0	21.3
GD034026		1.51	116.5	20.6
GD034027		12.25	24.7	41.7
GD034028		13.80	28.9	45.0
GD034029		14.30	38.0	53.3
GD034030		13.45	30.2	49.8
GD034030D		10.65	35.1	186.5
GD034031		8.14	27.6	42.8
GD034032		26.5	33.2	83.7
GD034033		13.65	28.5	40.4
GD034034		11.35	21.3	30.3
GD034035		8.14	14.2	15.7
GD034036		9.27	33.6	36.5
GD034037		14.90	30.4	54.3
GD034040		16.85	42.5	72.0
GD034041		4.56	22.7	8.1



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Project: SS000325

## CERTIFICATE OF ANALYSIS PH24081422

Sample Description	Method Analyte Units LOD	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L
		Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe	Ga
		ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		0.002	0.01	0.02	1	0.02	0.002	0.01	0.005	0.01	0.005	0.3	0.01	0.02	0.002	0.05
GD034042		0.055	6.45	0.81	19	5.64	1.280	0.28	<0.005	4.26	0.420	3.5	22.7	1.28	0.870	24.0
GD034043		11.90	6.75	3.26	11	3.28	38.6	0.26	<0.005	3.40	1.640	4.1	14.45	1.56	3.76	33.8
GD034044		0.204	6.17	3.17	157	3.57	5.57	0.14	<0.005	43.4	0.878	5.9	17.50	2.38	1.320	25.2
GD034045		0.252	6.56	0.98	201	10.90	30.5	0.07	<0.005	64.3	0.382	2.8	36.2	2.98	0.720	21.2
GD034046		0.015	6.18	5.11	118	8.41	0.536	0.10	<0.005	40.1	0.458	4.2	26.8	2.77	1.080	22.8
GD034047		0.045	6.31	1.12	91	7.52	2.25	0.09	<0.005	21.4	0.521	3.8	45.5	1.26	1.220	24.8
GD034048		0.053	6.78	1.98	44	4.64	1.175	0.12	<0.005	7.99	0.360	3.2	49.6	1.07	1.180	31.1
GD034049		0.021	6.15	5.81	39	29.1	1.715	0.26	<0.005	7.44	0.296	4.2	29.2	1.50	0.930	26.5
GD034050		0.016	6.10	2.66	74	9.44	1.055	0.14	<0.005	22.3	0.590	3.8	75.1	1.08	1.280	24.9
GD034052		0.023	6.98	1.90	99	4.01	0.665	0.15	<0.005	43.7	0.507	2.9	32.9	1.42	1.060	24.0
GD034053		0.017	6.34	1.94	136	8.25	0.671	0.28	0.026	55.7	1.140	4.7	17.50	1.09	1.540	24.4
GD034054		0.060	6.57	0.84	93	4.03	1.550	0.09	<0.005	54.2	0.287	3.8	28.3	1.28	0.920	26.2
GD034055		0.039	6.27	0.64	164	7.19	0.411	0.41	0.024	46.2	1.200	4.8	32.7	1.47	1.530	23.2
GD034056		0.013	6.90	0.47	41	14.20	1.725	0.17	<0.005	12.00	0.523	3.6	24.3	0.99	0.850	23.9
GD034101		0.025	6.75	0.43	68	2.28	0.625	0.28	<0.005	10.20	0.281	3.1	13.85	2.00	0.640	18.55
GD034102		0.014	7.37	0.32	490	3.55	0.091	0.38	<0.005	134.0	3.04	7.2	19.50	1.08	1.870	21.9
GD034103		0.049	7.32	0.34	207	4.02	0.304	0.22	<0.005	28.7	0.754	5.2	17.45	3.16	0.680	17.65
GD034104		0.061	7.13	0.56	323	3.74	0.581	0.23	<0.005	52.1	1.140	5.0	22.9	2.00	0.860	19.25
GD034105		0.016	7.50	0.51	339	4.07	0.462	0.25	<0.005	66.7	1.280	3.9	19.95	1.42	0.900	19.65
GD034106		0.066	7.30	0.53	327	2.31	0.316	0.05	<0.005	56.3	0.522	5.3	10.70	1.70	0.930	20.2
GD034107		0.113	7.32	0.54	330	3.94	0.450	0.33	<0.005	52.7	1.135	4.3	23.4	3.69	0.890	20.8
GD034108		0.054	7.45	0.35	331	3.24	2.58	0.22	<0.005	51.7	1.515	4.5	21.0	1.25	1.230	19.65
GD034109		0.050	7.50	0.54	331	4.12	0.491	0.22	<0.005	55.0	1.080	3.4	23.0	4.70	0.850	19.50
GD034110		0.109	6.72	0.90	239	2.52	54.8	0.04	<0.005	22.6	0.652	4.4	30.4	12.65	2.04	23.5
GD034111		0.028	7.03	0.49	390	1.78	0.409	0.37	<0.005	64.7	3.04	7.6	16.65	1.46	1.610	18.60
GD034112		0.034	7.53	0.32	219	3.57	0.629	0.25	<0.005	27.9	0.915	4.5	25.7	3.24	0.860	20.5
GD034113		0.041	7.65	0.40	240	3.93	1.870	0.17	<0.005	31.4	0.727	4.3	22.2	1.35	0.670	17.95
GD034114		0.080	7.93	0.29	222	3.43	0.553	0.19	<0.005	21.1	0.526	4.0	20.7	1.24	0.700	22.3
GD034115		0.129	7.54	0.55	203	2.72	4.66	0.15	<0.005	22.7	0.434	3.3	25.8	8.98	0.640	19.75
GD034116		0.026	7.67	0.31	303	3.62	0.368	0.20	<0.005	56.5	0.422	3.4	12.60	1.72	0.530	20.4
GD034117		0.027	7.43	0.27	300	3.42	0.486	0.25	<0.005	48.2	0.658	3.3	20.6	1.38	0.610	20.8
GD034118		1.945	6.23	4.05	38	7.05	12.35	0.01	0.834	39.5	0.140	3.1	67.5	17.40	2.06	31.4
GD034119		0.050	6.30	1.05	37	5.86	6.53	0.09	<0.005	17.70	0.352	2.3	20.6	0.92	0.650	25.3
GD034120		0.046	6.17	1.90	77	10.85	0.875	0.13	0.022	44.4	0.748	4.0	49.5	1.56	1.290	24.9
GD034121		0.055	6.20	7.50	34	7.92	4.63	0.24	<0.005	5.39	0.232	2.6	61.5	0.69	0.940	31.3
GD034122		0.033	5.94	0.71	16	3.24	3.86	0.25	0.011	8.24	0.264	4.4	34.2	1.35	0.970	32.5
GD034123		0.036	6.29	1.27	115	3.57	1.290	0.13	0.017	60.5	0.812	4.3	46.6	1.51	1.340	26.7
GD034124		0.035	6.01	0.81	37	14.35	3.14	0.08	0.011	18.80	0.679	2.4	53.1	1.10	1.500	30.9
GD034126		0.068	7.60	0.70	36	4.66	0.813	0.01	<0.005	13.65	0.734	5.2	40.9	3.54	1.440	42.1
GD034128		0.072	6.64	2.85	120	10.10	1.625	0.24	0.019	23.7	2.00	6.1	25.4	1.80	1.300	29.1



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## CERTIFICATE OF ANALYSIS PH24081422

Sample Description	Method Analyte Units LOD	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L
		Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
		ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
		0.05	0.004	0.005	0.01	0.005	0.2	0.01	0.2	0.02	0.001	0.005	0.08	0.001	0.01
		0.05	0.004	0.005	0.01	0.005	0.2	0.01	0.2	0.02	0.001	0.005	0.08	0.001	0.01
GD034042		0.05	1.015	0.031	3.63	1.825	77.2	0.03	138.0	0.55	2.48	10.85	1.25	0.062	12.15
GD034043		0.07	1.485	2.77	1.41	1.230	125.5	0.02	1040	0.64	0.374	21.0	1.25	0.116	72.7
GD034044		0.10	2.83	0.106	3.41	17.35	50.7	0.06	156.0	1.02	1.670	16.95	1.71	0.069	19.60
GD034045		0.12	1.820	0.479	4.16	29.2	101.5	0.06	156.5	0.42	1.545	11.10	0.71	0.028	94.2
GD034046		0.08	2.82	0.083	3.92	16.15	101.0	0.05	156.0	0.83	1.715	15.10	1.46	0.048	17.85
GD034047		0.05	2.38	0.052	4.18	8.98	207	0.04	204	0.58	1.760	13.85	0.80	0.049	15.50
GD034048		0.05	1.255	0.034	3.50	3.35	347	0.04	294	0.45	2.46	19.35	0.87	0.070	10.80
GD034049		0.06	1.235	0.024	2.98	3.36	100.5	0.03	184.0	0.99	2.34	9.65	1.20	0.088	12.20
GD034050		0.09	2.32	0.045	3.69	9.13	225	0.05	237	0.63	2.03	17.10	1.18	0.064	11.95
GD034052		<0.05	3.11	0.137	4.37	16.95	144.5	0.08	214	0.68	2.06	16.65	1.24	0.041	31.0
GD034053		0.17	2.99	0.110	4.11	21.7	118.5	0.06	227	1.19	1.960	14.90	1.72	0.043	23.4
GD034054		<0.05	2.87	0.084	4.42	21.6	125.5	0.06	131.0	0.70	1.825	13.95	0.88	0.035	33.4
GD034055		0.14	3.14	0.061	4.11	18.50	130.5	0.11	268	0.73	1.910	17.00	1.32	0.057	22.2
GD034056		<0.05	1.485	0.021	4.40	4.92	94.1	0.05	145.0	0.51	2.26	10.90	1.38	0.058	13.50
GD034101		<0.05	1.280	0.079	4.35	5.49	24.1	0.04	82.2	0.65	2.08	6.77	0.72	0.060	33.6
GD034102		0.21	4.33	0.062	4.51	61.4	69.0	0.25	287	1.16	1.495	16.55	2.78	0.042	29.4
GD034103		<0.05	2.26	0.113	4.59	13.35	40.2	0.07	95.6	0.61	1.620	12.55	2.06	0.100	41.4
GD034104		<0.05	3.10	0.073	4.47	23.1	37.4	0.08	91.8	0.66	1.560	16.40	1.31	0.057	39.7
GD034105		<0.05	3.20	0.070	4.58	30.3	33.5	0.10	114.0	0.42	1.865	16.45	1.26	0.088	39.1
GD034106		<0.05	3.15	0.079	4.54	24.9	26.2	0.09	74.3	1.01	1.045	16.70	1.25	0.062	34.5
GD034107		<0.05	3.19	0.066	4.87	23.0	40.8	0.13	125.5	0.45	1.710	17.35	1.68	0.070	41.4
GD034108		<0.05	3.17	0.086	4.55	24.4	56.6	0.18	174.0	0.49	1.670	17.20	2.14	0.092	35.9
GD034109		0.05	3.20	0.095	4.67	24.0	50.8	0.15	134.5	0.36	1.750	16.95	1.68	0.045	41.8
GD034110		<0.05	2.12	1.075	3.71	12.55	78.8	0.08	209	5.63	0.486	13.25	1.19	0.021	12.40
GD034111		0.07	3.60	0.049	4.23	26.7	108.0	0.26	293	0.57	1.615	15.30	3.38	0.026	32.6
GD034112		<0.05	2.21	0.062	4.63	12.70	49.3	0.13	139.0	0.37	1.950	17.55	1.86	0.077	44.6
GD034113		<0.05	2.46	0.040	4.57	13.80	42.0	0.09	77.0	0.38	1.765	13.45	1.64	0.081	49.9
GD034114		<0.05	2.21	0.098	5.12	9.69	32.3	0.12	138.0	0.41	0.895	15.50	1.39	0.095	36.6
GD034115		<0.05	2.16	0.211	4.67	10.00	38.4	0.09	83.1	0.39	1.745	15.60	1.24	0.066	49.6
GD034116		0.06	3.15	0.047	4.83	24.8	42.8	0.06	45.4	0.36	1.750	16.90	1.42	0.064	46.0
GD034117		0.10	2.57	0.086	4.60	20.6	47.0	0.10	68.0	0.27	1.810	16.20	1.17	0.055	42.0
GD034118		0.05	2.61	25.0	3.37	15.95	163.0	0.06	572	1.86	0.069	20.8	0.95	0.016	15.45
GD034119		0.05	1.610	0.088	4.72	7.46	50.2	0.02	75.6	0.36	1.850	9.89	0.91	0.062	19.40
GD034120		0.08	2.91	0.059	4.16	17.65	190.5	0.06	203	0.83	1.970	18.55	1.60	0.048	17.00
GD034121		0.05	0.957	0.224	3.71	1.960	247	0.03	233	0.55	2.43	20.9	1.12	0.097	8.34
GD034122		<0.05	1.790	0.077	2.78	2.46	241	0.01	221	0.49	2.90	21.0	0.98	0.115	6.23
GD034123		0.08	3.09	0.093	4.11	23.6	182.0	0.06	222	0.57	2.09	17.55	1.48	0.043	17.75
GD034124		0.09	2.31	0.064	4.13	7.41	266	0.03	274	0.40	1.935	23.2	0.90	0.046	11.70
GD034126		0.05	2.68	1.610	3.23	5.50	550	0.15	491	0.52	0.040	42.2	1.72	0.009	123.0
GD034128		0.07	2.52	0.087	4.24	13.65	37.3	0.06	207	0.60	2.32	23.8	2.65	0.083	23.4



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Project: SS000325

## CERTIFICATE OF ANALYSIS PH24081422

Sample Description	Method Analyte Units LOD	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L
		Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	TI	U	V
		ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		0.0004	0.01	0.02	0.01	0.006	0.02	0.02	0.01	0.005	0.004	0.001	0.002	0.01	0.1
		0.008													
GD034042		<0.0004	<0.01	0.08	1.43	<0.006	9.09	7.03	2.06	<0.005	3.69	0.019	2.57	2.14	1.5
GD034043		0.0004	<0.01	0.52	2.33	0.058	113.5	7.02	9.79	0.017	4.07	0.011	1.810	5.98	1.2
GD034044		0.0004	0.01	0.24	2.68	0.055	12.80	55.8	3.90	0.009	17.30	0.045	2.57	5.50	3.3
GD034045		<0.0004	<0.01	0.25	2.25	0.025	38.9	39.0	2.63	0.006	17.10	0.043	2.78	6.11	3.4
GD034046		<0.0004	0.01	0.26	2.23	0.032	13.90	29.1	2.71	<0.005	16.25	0.051	2.78	5.13	3.0
GD034047		0.0004	0.01	0.20	1.87	0.019	11.65	18.30	2.81	<0.005	10.80	0.033	3.50	4.89	2.1
GD034048		<0.0004	<0.01	0.28	1.92	0.037	15.70	9.62	4.90	<0.005	6.22	0.021	4.05	2.83	1.8
GD034049		<0.0004	0.01	0.52	1.06	0.026	10.05	13.55	4.03	<0.005	6.33	0.008	2.63	3.93	1.3
GD034050		<0.0004	0.01	0.22	2.20	0.020	11.55	28.7	3.61	0.005	12.45	0.033	3.39	5.89	3.0
GD034052		0.0012	0.01	0.27	2.82	0.024	26.8	19.60	3.23	<0.005	17.30	0.045	3.26	12.25	1.5
GD034053		0.0007	0.01	0.18	2.90	<0.006	14.50	25.0	2.15	<0.005	21.1	0.060	2.63	14.25	2.4
GD034054		0.0006	<0.01	0.21	2.57	0.016	22.2	19.70	2.34	<0.005	17.95	0.037	3.20	4.67	1.0
GD034055		0.0005	0.01	0.12	2.74	0.006	9.37	39.4	2.69	<0.005	16.85	0.074	2.76	3.97	5.1
GD034056		0.0006	<0.01	0.11	1.58	0.007	9.37	16.25	2.54	<0.005	7.35	0.024	3.00	2.28	1.0
GD034101		0.0006	<0.01	0.03	0.68	0.021	17.25	36.1	1.97	<0.005	2.07	0.034	1.920	5.35	0.5
GD034102		<0.0004	0.01	0.05	6.07	0.072	17.10	89.3	1.73	<0.005	36.1	0.188	2.41	5.89	19.7
GD034103		0.0006	0.01	0.03	2.60	0.026	19.70	59.5	2.21	<0.005	5.74	0.074	2.18	6.22	4.2
GD034104		<0.0004	0.01	0.04	2.45	0.092	19.80	69.5	2.28	<0.005	12.10	0.100	2.09	6.25	6.0
GD034105		0.0005	0.01	0.04	2.69	0.033	17.30	77.5	2.26	<0.005	14.00	0.102	2.09	7.86	5.5
GD034106		<0.0004	0.01	0.04	3.19	0.169	12.60	74.3	2.52	<0.005	13.85	0.102	2.27	5.32	6.9
GD034107		<0.0004	0.01	0.06	2.66	0.040	16.65	68.2	2.39	<0.005	12.75	0.108	2.21	5.89	6.7
GD034108		<0.0004	0.01	0.04	3.01	0.043	19.90	69.3	2.51	<0.005	13.05	0.102	2.24	9.05	6.6
GD034109		0.0005	0.01	0.03	2.34	0.091	19.40	70.0	2.27	<0.005	12.85	0.100	2.22	5.34	5.5
GD034110		0.0007	0.01	0.03	4.27	0.141	128.0	20.2	2.74	<0.005	14.20	0.103	2.82	4.37	8.4
GD034111		<0.0004	0.01	0.03	5.89	0.110	9.24	75.8	2.63	<0.005	19.35	0.163	1.970	5.76	19.7
GD034112		<0.0004	0.01	0.04	3.30	0.031	16.50	60.9	3.26	<0.005	6.93	0.082	2.13	5.88	6.2
GD034113		<0.0004	0.01	0.04	3.44	0.049	15.05	68.2	2.24	<0.005	6.29	0.075	1.845	8.41	4.5
GD034114		<0.0004	0.01	0.09	3.84	0.022	23.9	44.6	3.45	<0.005	5.24	0.070	2.98	6.05	5.1
GD034115		<0.0004	0.01	0.04	3.62	0.079	24.9	55.5	3.08	<0.005	4.70	0.069	2.25	7.50	4.3
GD034116		<0.0004	0.01	0.04	2.76	0.072	13.95	64.7	2.40	<0.005	14.15	0.108	2.11	6.75	5.7
GD034117		<0.0004	0.01	0.02	2.65	0.026	15.75	67.2	2.37	<0.005	11.45	0.106	2.14	5.59	6.8
GD034118		0.0004	0.01	3.58	3.39	0.650	167.5	26.7	2.99	<0.005	15.95	0.058	5.04	9.91	2.5
GD034119		<0.0004	<0.01	0.16	1.20	0.019	6.88	12.75	3.62	0.005	6.08	0.019	3.18	4.12	1.2
GD034120		0.0007	0.01	0.23	2.76	0.033	9.36	21.7	3.32	<0.005	16.80	0.059	3.33	6.59	2.8
GD034121		0.0005	<0.01	0.20	2.25	0.010	11.60	15.60	5.44	<0.005	4.18	0.018	3.54	1.64	0.4
GD034122		0.0005	<0.01	0.13	2.67	<0.006	8.54	21.8	4.72	<0.005	10.00	0.018	2.84	2.60	0.5
GD034123		<0.0004	<0.01	0.20	2.93	0.013	9.82	26.7	3.43	<0.005	19.20	0.061	3.26	11.90	2.6
GD034124		0.0039	0.01	0.16	2.62	0.014	12.35	18.60	6.00	<0.005	11.00	0.033	4.04	3.79	1.2
GD034126		0.0005	<0.01	2.78	5.56	0.029	39.4	9.65	20.2	<0.005	4.64	0.008	4.12	3.98	1.5
GD034128		<0.0004	0.01	0.19	3.89	0.016	6.32	39.1	5.12	<0.005	10.90	0.044	2.17	4.52	3.7





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## CERTIFICATE OF ANALYSIS PH24081422

Sample Description	Method Analyte Units LOD	ME-MS61L	ME-MS61L	ME-MS61L
		Y	Zn	Zr
		ppm	ppm	ppm
		0.01	0.2	0.1
GD034042		4.32	17.8	19.2
GD034043		6.45	140.0	20.1
GD034044		13.75	32.7	70.2
GD034045		14.10	22.4	44.2
GD034046		15.80	22.4	69.1
GD034047		11.20	38.2	54.3
GD034048		4.75	32.0	18.5
GD034049		5.64	18.9	21.8
GD034050		15.65	31.4	50.9
GD034052		38.7	32.2	70.9
GD034053		24.4	52.0	73.0
GD034054		23.1	21.9	64.3
GD034055		20.7	42.1	78.6
GD034056		8.76	16.7	27.1
GD034101		5.05	8.9	20.9
GD034102		18.65	63.4	132.5
GD034103		10.30	23.2	60.2
GD034104		6.16	29.1	86.8
GD034105		6.88	27.2	90.4
GD034106		15.65	25.9	85.2
GD034107		7.56	33.3	89.9
GD034108		7.23	50.2	86.9
GD034109		7.02	44.9	89.6
GD034110		4.63	54.5	54.8
GD034111		13.20	51.4	103.5
GD034112		7.06	26.4	58.1
GD034113		9.13	28.8	66.8
GD034114		11.25	23.6	55.6
GD034115		7.23	20.4	56.7
GD034116		5.81	13.2	89.2
GD034117		5.79	20.9	71.7
GD034118		12.65	41.6	63.5
GD034119		4.97	23.5	30.1
GD034120		17.70	40.0	71.5
GD034121		13.45	31.2	14.6
GD034122		11.05	23.0	25.4
GD034123		29.9	36.1	77.7
GD034124		11.40	41.5	46.1
GD034126		13.95	26.7	35.7
GD034128		12.10	28.1	47.2



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## CERTIFICATE OF ANALYSIS PH24081422

Sample Description	Method Analyte Units LOD	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L
		Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe	Ga
		ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
		0.002	0.01	0.02	1	0.02	0.002	0.01	0.005	0.01	0.005	0.3	0.01	0.02	0.002	0.05
GD034129		0.032	6.62	1.55	131	3.28	0.147	0.22	0.017	21.0	0.423	2.5	12.75	1.12	0.690	22.1
GD034130		0.027	4.83	2.06	10	3.10	0.137	0.24	0.011	10.95	3.13	5.2	5.24	1.47	3.22	32.6
GD034130D		0.091	10.25	9.64	211	1.18	0.205	0.10	<0.005	31.3	46.3	424	3.86	361	14.70	28.3
GD034131		0.022	6.46	1.52	25	4.74	2.83	0.16	<0.005	6.20	0.261	3.0	96.3	1.80	0.910	34.6
GD034132		0.031	6.28	10.35	54	17.55	2.30	0.15	<0.005	30.6	1.070	4.3	24.4	4.21	1.030	23.8
GD034133		0.039	6.10	4.67	90	11.55	1.540	0.09	<0.005	27.7	0.377	3.7	33.0	1.20	1.030	25.0
GD034134		4.64	5.55	251	34	3.91	342	0.09	<0.005	24.5	1.275	3.3	18.75	3.03	3.18	36.6
GD034135		0.107	6.76	1.66	57	16.10	14.65	0.15	0.009	12.90	1.105	4.0	17.75	1.30	1.220	25.2
GD034136		0.054	5.52	1.57	76	9.59	1.945	0.16	0.007	49.5	1.340	4.6	41.7	0.99	1.530	22.5
GD034137		0.158	5.32	2.69	73	4.37	58.9	0.14	<0.005	30.3	1.595	3.3	5.84	0.84	2.68	36.1
GD034138		0.662	6.65	3.65	72	12.60	1.760	0.15	<0.005	21.3	0.508	4.7	26.9	1.19	1.530	29.0
GD034139		0.044	5.93	1.47	88	12.25	0.688	0.18	<0.005	45.0	0.887	4.8	48.0	1.06	1.450	24.3
GD034140		0.126	6.54	1.80	61	12.65	1.310	0.10	<0.005	25.8	0.446	2.8	19.10	1.78	0.710	26.5
GD034141		0.021	6.81	7.29	61	7.49	0.524	0.06	<0.005	19.70	0.321	4.7	26.7	0.99	1.080	27.4
GD034142		0.093	10.45	10.30	222	1.21	0.210	0.10	<0.005	32.0	46.9	435	3.95	365	15.05	28.2
GD034143		0.043	6.47	1.51	76	11.80	3.26	0.24	<0.005	48.6	0.901	3.7	29.2	0.85	1.270	25.9
GD034144		0.111	6.84	7.65	92	11.95	2.02	0.08	<0.005	78.2	0.320	2.0	31.0	2.02	0.750	28.1
GD034145		0.092	6.75	2.01	65	14.50	3.42	0.08	<0.005	38.5	0.521	3.8	35.7	1.13	0.880	27.0
GD034146		0.047	6.46	40.3	46	15.60	3.34	0.19	<0.005	30.2	0.510	3.5	28.6	0.91	1.210	26.2
GD034147		0.067	6.36	8.53	62	7.63	0.813	0.09	<0.005	37.8	0.485	2.2	36.5	1.66	0.950	26.9
GD034148		0.031	6.69	0.79	64	10.50	0.772	0.10	<0.005	37.9	0.756	4.4	33.4	1.50	0.950	28.1
GD034149		0.021	6.38	1.03	85	13.85	0.210	0.14	<0.005	39.9	0.849	4.1	30.5	0.82	1.100	26.5
GD034150		0.057	5.43	1.88	104	12.05	0.443	4.15	0.046	17.65	0.727	2.6	35.9	0.93	0.940	25.3
GD034127		0.022	6.47	1.26	94	13.15	0.995	0.24	<0.005	33.4	1.125	3.9	32.4	0.92	1.220	25.2



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Project: SS000325

## CERTIFICATE OF ANALYSIS PH24081422

Sample Description	Method Analyte Units LOD	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L
		Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
		ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
		0.05	0.004	0.005	0.01	0.005	0.2	0.01	0.2	0.02	0.001	0.005	0.08	0.001	0.01
GD034129		0.05	2.27	0.023	4.61	9.09	17.8	0.04	111.0	0.33	2.16	13.90	1.24	0.082	17.30
GD034130		0.05	1.605	0.116	0.49	4.07	48.9	0.09	340	0.50	0.459	13.10	2.43	0.087	2.61
GD034130D		0.71	5.06	0.113	0.23	16.35	21.1	0.23	227	2.37	0.064	23.8	257	0.030	14.35
GD034131		0.08	2.14	0.029	3.40	1.990	485	0.01	328	0.37	3.11	30.9	0.78	0.115	6.50
GD034132		0.09	2.74	0.078	3.99	12.20	95.5	0.05	101.5	0.63	2.04	12.95	1.26	0.038	18.55
GD034133		0.09	2.20	0.103	4.14	12.10	148.5	0.05	184.0	0.71	1.805	14.40	0.75	0.026	14.45
GD034134		<0.05	1.850	5.17	1.50	10.60	143.5	0.07	461	3.17	0.310	13.65	0.82	0.048	60.2
GD034135		0.06	1.205	0.052	4.58	5.72	66.5	0.03	154.5	0.57	2.23	10.85	1.34	0.064	17.75
GD034136		0.07	3.32	0.063	3.70	19.65	149.5	0.07	300	0.60	1.710	18.50	1.47	0.051	19.55
GD034137		0.07	2.33	0.173	2.18	13.00	36.6	0.05	256	0.64	0.973	4.00	0.89	0.090	12.20
GD034138		0.06	1.625	0.387	3.09	9.16	128.0	0.05	288	0.58	2.17	14.10	0.74	0.061	102.5
GD034139		0.09	2.82	0.062	3.90	18.65	171.0	0.06	212	1.22	1.920	16.70	1.20	0.051	20.2
GD034140		0.06	2.70	0.049	4.05	10.95	110.5	0.05	81.7	0.50	2.06	15.50	1.19	0.035	16.80
GD034141		0.06	2.10	0.059	4.43	8.03	137.0	0.06	129.5	0.91	2.01	14.70	1.02	0.050	16.25
GD034142		0.71	5.11	0.119	0.23	17.05	21.7	0.23	227	2.34	0.068	23.8	261	0.029	14.50
GD034143		0.13	3.40	0.083	4.34	18.85	139.0	0.04	168.5	1.04	2.03	16.80	1.18	0.040	22.5
GD034144		0.15	2.63	0.074	4.42	28.9	129.5	0.04	113.0	0.33	2.16	15.85	0.66	0.026	21.8
GD034145		0.10	3.16	0.126	4.50	15.65	131.0	0.04	118.5	0.42	1.985	15.35	0.90	0.022	25.2
GD034146		0.07	2.92	0.041	4.25	12.00	139.0	0.04	125.5	0.93	2.13	15.60	0.85	0.045	18.75
GD034147		0.08	2.80	0.076	4.21	16.90	113.5	0.04	115.5	0.51	1.985	15.80	1.16	0.026	24.5
GD034148		0.10	2.08	0.095	3.94	12.70	136.5	0.05	285	0.46	2.25	14.80	1.65	0.035	14.05
GD034149		0.09	3.02	0.054	4.36	15.75	132.0	0.04	114.5	0.57	2.12	13.80	1.60	0.036	19.80
GD034150		0.16	2.38	0.052	3.66	7.34	175.5	0.05	288	0.42	2.02	14.05	1.35	0.027	14.85
GD034127		0.10	2.83	0.064	4.39	13.85	145.5	0.05	170.0	0.66	2.06	15.00	1.54	0.042	21.6



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## CERTIFICATE OF ANALYSIS PH24081422

Sample Description	Method Analyte Units LOD	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L
		Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	TI	U	V	W
		ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
		0.0004	0.01	0.02	0.01	0.006	0.02	0.02	0.01	0.005	0.004	0.001	0.002	0.01	0.1	0.008
GD034129		<0.0004	<0.01	0.13	1.36	0.010	5.31	32.6	3.32	<0.005	11.40	0.023	2.59	4.33	1.2	5.71
GD034130		<0.0004	<0.01	0.14	4.77	0.007	6.56	6.07	3.75	<0.005	7.60	0.033	0.385	5.12	1.7	2.74
GD034130D		<0.0004	0.03	0.65	39.7	1.985	2.88	25.9	1.55	0.071	9.76	1.095	0.202	2.10	258	1.290
GD034131		<0.0004	<0.01	0.44	3.49	0.014	12.10	12.25	6.28	<0.005	8.31	0.022	4.85	4.06	0.5	9.83
GD034132		0.0004	<0.01	0.19	2.49	0.084	15.20	18.95	2.63	<0.005	12.95	0.044	2.76	9.39	3.4	11.30
GD034133		0.0004	0.01	0.18	2.03	0.014	20.2	15.65	3.12	<0.005	12.95	0.042	3.56	4.01	2.6	9.83
GD034134		0.0029	0.02	6.57	3.45	0.286	95.6	7.81	3.46	0.047	10.50	0.033	1.620	7.23	2.3	165.5
GD034135		<0.0004	<0.01	0.23	1.56	0.016	7.81	12.90	3.72	0.011	7.96	0.022	3.00	3.23	1.1	7.36
GD034136		0.0004	0.01	0.23	2.82	0.024	8.27	16.70	2.99	<0.005	21.2	0.067	2.66	4.34	2.8	8.62
GD034137		<0.0004	0.01	0.31	2.54	0.022	9.23	12.90	1.56	0.017	14.05	0.039	1.445	9.17	1.8	2.05
GD034138		<0.0004	<0.01	0.26	1.88	0.040	29.7	15.25	4.07	<0.005	11.25	0.027	2.49	6.41	1.5	5.37
GD034139		<0.0004	<0.01	0.17	2.54	0.009	11.40	19.60	2.71	<0.005	19.95	0.067	2.88	12.45	3.1	13.00
GD034140		<0.0004	0.01	0.39	2.00	0.011	11.00	15.45	2.55	<0.005	14.20	0.040	2.68	3.72	1.8	3.04
GD034141		<0.0004	0.02	0.65	2.50	0.023	16.40	11.50	3.15	<0.005	12.20	0.032	3.22	5.45	1.5	2.96
GD034142		<0.0004	0.03	0.59	38.8	2.19	2.96	27.0	1.55	0.065	10.10	1.105	0.204	2.07	260	1.240
GD034143		<0.0004	<0.01	0.29	3.05	0.027	15.15	17.60	2.56	0.005	23.0	0.058	3.11	18.25	1.9	10.45
GD034144		0.0004	0.01	0.15	2.72	0.043	17.35	15.25	3.13	<0.005	17.40	0.039	3.25	10.55	1.1	4.55
GD034145		<0.0004	<0.01	0.23	2.60	0.024	17.85	15.85	2.71	<0.005	18.95	0.045	3.44	3.86	1.3	7.45
GD034146		<0.0004	0.01	0.15	2.45	0.034	12.95	17.90	3.25	<0.005	16.20	0.037	3.09	16.80	1.2	12.65
GD034147		<0.0004	<0.01	0.21	2.65	0.036	17.95	21.9	3.09	<0.005	16.55	0.039	3.14	5.58	1.4	3.56
GD034148		<0.0004	<0.01	0.26	2.50	0.023	18.00	19.45	3.43	<0.005	11.50	0.028	3.28	4.48	1.4	4.10
GD034149		<0.0004	<0.01	0.11	2.65	0.037	10.85	17.55	2.47	<0.005	19.30	0.050	3.17	10.85	2.0	2.02
GD034150		<0.0004	0.01	0.25	2.24	0.023	13.40	41.8	3.58	<0.005	11.15	0.034	2.83	3.89	2.3	2.77
GD034127		0.0004	<0.01	0.18	2.78	0.041	13.65	19.50	2.74	<0.005	16.70	0.046	3.06	12.50	2.2	15.10



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## CERTIFICATE OF ANALYSIS PH24081422

Sample Description	Method Analyte Units LOD	ME-MS61L	ME-MS61L	ME-MS61L
		Y	Zn	Zr
		ppm	ppm	ppm
		0.01	0.2	0.1
GD034129		11.55	12.1	47.9
GD034130		14.45	97.9	31.4
GD034130D		12.15	37.1	197.0
GD034131		8.14	25.0	31.6
GD034132		14.20	19.3	59.0
GD034133		11.80	28.2	48.5
GD034134		10.60	122.0	40.0
GD034135		7.98	42.2	26.4
GD034136		20.5	43.6	83.1
GD034137		17.10	94.2	53.5
GD034138		12.80	50.6	32.5
GD034139		21.5	36.5	72.6
GD034140		14.60	12.6	65.6
GD034141		10.90	14.4	43.1
GD034142		13.25	36.3	190.0
GD034143		29.4	35.4	81.6
GD034144		88.8	12.2	58.4
GD034145		21.2	22.4	72.1
GD034146		18.55	24.2	62.3
GD034147		19.85	23.5	63.0
GD034148		21.8	24.4	42.0
GD034149		19.10	28.4	70.5
GD034150		13.70	24.9	52.4
GD034127		21.4	39.8	65.7

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### CERTIFICATE COMMENTS

### ACCREDITATION COMMENTS

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-MS61L

## 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

FND-02

LEV-01

LOG-20

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