



Australian Laboratory Services Pty. Ltd.

32 Shand Street

Stafford

Brisbane QLD 4053

Phone: +61 7 3243 7222 Fax: +61 7 3243 7218

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ALS Perth is a NATA Accredited Testing Laboratory. Corporate Accreditation

No: 825, Corporate Site No: 23001.

To: STUNALARA (OPERATIONS) PTY LTD

SUITE 90, 102 RAILWAY STREET

WEST PERTH

PERTH WA 6005

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Plus Appendix Pages

Finalized Date: 20-AUG-2022

This copy reported on 30-AUG-2022

Account: STUNPTYLTD

CERTIFICATE PH22150847

Project: SOILS

This report is for 19 samples of Soil submitted to our lab in Perth, WA, Australia on 23-JUN-2022.

The following have access to data associated with this certificate:

PAUL FERGUSON

MARK LESTER

ROBERT REID

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LEV-01	Waste Disposal Levy
LOG-22	Sample login – Rcd w/o BarCode
PUL-31L	Pulverize 250g soil to 85% < 75um
SPL-21	Split sample – riffle splitter
PUL-QC	Pulverizing QC Test

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-MS61L	Super Trace Lowest DL 4A by ICP-MS	
Au-ICP21	Au 30q FA ICP-AES Finish	ICP-AES

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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CERTIFICATE OF ANALYSIS PH22150847

Sample Description	Method Analyte Units LOD	WEI-21	PUL-QC	Au-ICP21	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L
		Recvd Wt.	Pass75um	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs
		kg	%	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
		0.02	0.01	0.001	0.002	0.01	0.02	1	0.02	0.002	0.01	0.005	0.01	0.005	0.3	0.01
0333-6336		0.24	98.1	0.011	0.171	14.85	4.00	560	1.67	0.213	0.35	<0.005	81.3	9.99	360	1.78
0352-6361		0.30		0.005	0.054	14.95	15.75	850	1.20	0.115	0.37	<0.005	23.9	50.0	254	2.16
0388-6350		0.30		0.002	0.006	10.65	11.35	510	0.94	0.053	2.01	<0.005	9.79	19.30	125.5	1.13
0418-6354		0.33		0.005	0.024	10.25	13.00	239	0.76	0.226	1.16	<0.005	29.8	13.70	137.0	1.34
0445-6357		0.33		0.005	0.006	14.15	10.50	144	0.52	0.182	0.03	<0.005	13.25	12.40	41.5	1.32
0468-6341		0.28		0.005	0.071	14.55	8.40	343	1.42	0.149	0.04	<0.005	139.5	11.50	185.0	2.36
0492-6351		0.31		0.007	0.082	10.15	17.80	242	1.72	0.313	0.04	0.044	27.4	92.9	119.5	2.25
0519-6350		0.33		0.002	0.061	10.25	12.80	90	1.06	0.305	0.02	0.046	28.5	32.7	133.0	13.40
0547-6342		0.38		0.003	0.010	8.80	3.16	271	0.80	0.046	0.06	<0.005	16.40	26.9	200	7.21
0572-6349		0.41		0.002	0.013	4.22	13.45	28	1.40	0.064	0.11	<0.005	13.95	1.540	86.6	0.18
0595-6352		0.41		0.004	0.075	10.55	7.52	237	1.08	0.183	0.02	0.009	21.6	25.7	51.7	3.83
0622-6348		0.20		0.003	0.027	8.54	11.10	82	1.46	0.172	0.03	<0.005	7.86	11.40	79.6	2.12
0647-6350		0.22		0.007	0.066	9.56	8.86	110	0.84	0.203	0.02	0.026	7.37	17.45	131.5	1.21
0677-6351		0.19		0.009	0.056	10.00	11.95	176	1.00	1.435	0.02	<0.005	26.0	7.73	116.0	1.46
0705-6359		0.27		0.014	0.088	9.17	19.60	217	0.91	2.43	0.20	<0.005	39.4	11.80	111.0	1.34
0731-6359		0.24		0.003	0.020	9.11	7.82	154	0.84	0.415	0.02	<0.005	11.85	15.95	107.5	0.68
0756-6359		0.35		0.004	0.053	7.53	12.85	76	0.65	0.550	0.03	<0.005	62.9	1.160	35.0	6.86
0785-6362		0.34		0.003	0.079	6.22	7.68	740	1.20	1.085	0.04	<0.005	57.0	3.46	58.7	1.63
0638-6576		0.25		0.029	0.067	10.05	9.13	680	0.65	0.172	0.02	0.020	22.2	7.78	354	0.62



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CERTIFICATE OF ANALYSIS PH22150847

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
		Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
		ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.02	0.002	0.05	0.05	0.004	0.005	0.01	0.005	0.2	0.01	0.2	0.02	0.001	0.005	0.08
0333-6336		326	1.900	29.6	0.24	2.75	0.200	1.95	28.4	11.0	0.60	189.0	0.21	0.444	11.40	55.7
0352-6361		312	3.55	25.5	0.21	1.495	0.265	2.52	10.95	17.4	0.99	559	0.90	0.413	8.47	127.0
0388-6350		71.9	17.40	22.9	0.54	2.03	0.228	1.79	3.79	20.1	1.91	447	0.38	0.105	6.70	90.0
0418-6354		85.2	12.70	23.8	0.34	3.80	0.093	1.00	15.00	28.7	1.18	407	2.36	0.483	12.30	54.5
0445-6357		174.0	3.57	25.7	0.16	2.33	0.038	1.31	5.54	13.6	0.25	84.1	0.91	0.030	9.20	87.0
0468-6341		105.5	2.22	27.9	0.23	2.79	0.096	1.86	60.7	13.8	0.39	127.5	0.37	0.048	13.35	27.8
0492-6351		287	2.19	15.45	0.13	1.495	0.027	1.47	13.95	28.5	0.96	322	1.14	0.255	10.30	119.5
0519-6350		60.7	2.24	16.60	0.13	1.490	0.031	3.50	14.60	42.3	1.36	92.5	0.93	0.068	9.40	64.3
0547-6342		75.3	3.48	16.50	0.14	2.72	0.041	2.19	7.08	24.6	2.36	334	0.34	0.122	4.89	77.2
0572-6349		9.57	0.850	9.38	0.10	2.60	0.006	0.11	7.13	8.4	1.08	37.6	1.52	0.315	5.29	7.99
0595-6352		71.0	3.71	17.50	0.19	3.21	0.021	2.90	9.16	24.7	2.31	343	0.83	0.031	6.17	36.0
0622-6348		60.2	3.47	18.40	0.16	2.62	0.060	1.41	2.87	38.7	2.60	245	0.64	0.056	6.25	53.1
0647-6350		527	2.48	19.25	0.11	3.06	0.099	1.18	2.71	31.2	1.75	363	0.83	0.023	6.84	73.9
0677-6351		104.5	2.18	18.85	0.12	3.10	0.134	1.45	12.20	32.5	1.49	231	1.92	0.027	6.75	59.7
0705-6359		189.0	3.79	16.30	0.17	2.88	0.216	1.89	21.0	39.6	2.86	495	0.48	0.056	5.64	65.6
0731-6359		104.5	5.12	18.70	0.16	2.81	0.181	1.00	4.73	45.4	3.46	663	0.30	0.027	7.02	72.7
0756-6359		12.80	0.720	14.15	0.14	2.23	0.082	3.13	30.6	17.1	0.32	32.8	0.81	0.068	4.92	6.10
0785-6362		27.2	1.500	16.95	0.09	2.77	0.161	2.34	26.9	12.9	0.93	136.5	2.39	0.103	5.95	12.50
0638-6576		53.9	1.680	19.45	0.10	6.23	0.240	2.44	13.05	25.8	1.24	260	1.06	0.043	9.44	38.8



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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
		P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti
		%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.001	0.01	0.02	0.0004	0.01	0.02	0.01	0.006	0.02	0.02	0.01	0.005	0.004	0.001
0333-6336		0.011	12.05	102.0	0.0009	0.15	1.48	72.9	0.159	7.63	36.2	0.73	0.062	16.80	0.662
0352-6361		0.007	18.10	160.0	0.0005	0.47	2.17	56.1	0.162	3.42	40.4	0.46	0.011	5.61	0.609
0388-6350		0.026	9.91	91.4	0.0007	0.04	1.58	38.2	1.010	4.51	53.5	0.41	0.012	16.30	0.495
0418-6354		0.016	21.0	58.3	0.0007	0.05	0.86	33.1	3.76	4.54	69.6	1.02	0.074	16.50	0.734
0445-6357		0.049	8.82	101.0	0.0004	0.02	0.50	25.5	1.805	4.46	7.76	0.60	0.131	19.35	0.563
0468-6341		0.009	5.70	123.0	0.0007	0.02	0.98	39.6	0.113	5.20	19.55	0.94	0.047	8.20	0.801
0492-6351		0.009	13.80	88.2	0.0039	0.78	0.64	22.3	0.899	1.16	33.2	0.71	0.064	4.40	0.529
0519-6350		0.006	4.62	210	0.0026	0.34	4.77	29.9	0.672	1.16	10.25	0.62	0.097	4.99	0.433
0547-6342		0.005	1.98	99.6	0.0006	0.11	0.90	38.0	0.143	2.89	24.2	0.39	0.020	7.16	0.395
0572-6349		0.018	1.61	5.13	0.0008	0.06	1.88	28.9	0.339	6.79	20.0	0.46	0.024	4.45	0.223
0595-6352		0.008	55.1	83.3	0.0007	0.25	1.08	19.20	0.194	1.60	15.90	0.39	0.083	6.48	0.431
0622-6348		0.011	10.30	21.8	0.0004	0.04	1.72	25.4	0.411	3.09	10.70	0.49	0.086	2.23	0.398
0647-6350		0.011	27.1	21.5	0.0008	0.11	2.02	25.0	0.224	2.36	27.9	0.55	0.013	6.26	0.413
0677-6351		0.017	10.85	44.2	0.0005	0.02	2.01	21.9	0.574	2.18	34.6	0.55	0.103	9.29	0.402
0705-6359		0.015	56.4	86.6	0.0009	0.05	3.29	25.2	0.525	2.56	78.9	0.46	0.065	9.78	0.332
0731-6359		0.006	9.96	9.28	0.0004	0.03	1.96	29.1	0.635	2.30	28.7	0.53	0.036	2.69	0.369
0756-6359		0.014	6.15	120.5	0.0008	0.02	100.5	14.10	0.197	1.86	67.8	0.37	0.121	8.19	0.324
0785-6362		0.015	7.35	96.2	0.0007	0.15	3.75	23.6	1.530	4.01	32.7	0.47	0.360	7.18	0.360
0638-6576		0.011	23.4	86.3	0.0023	0.04	0.93	34.8	0.422	3.42	40.2	0.67	0.204	16.45	0.443



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Sample Description	Method Analyte Units LOD	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L	ME-MS61L
		U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	ppm	ppm
		0.01	0.1	0.008	0.01	0.2	0.1
0333-6336		2.77	468	2.20	53.9	41.7	91.6
0352-6361		1.80	342	2.33	11.70	217	47.1
0388-6350		2.88	658	2.65	12.55	44.5	65.6
0418-6354		4.34	381	3.03	10.90	25.9	144.5
0445-6357		3.82	239	2.33	2.63	15.4	82.0
0468-6341		2.47	429	4.11	43.4	33.3	99.3
0492-6351		0.83	189.0	1.210	12.10	69.6	48.7
0519-6350		1.04	215	1.200	6.60	31.4	48.6
0547-6342		2.77	268	1.205	10.40	28.8	94.9
0572-6349		1.77	204	6.84	9.06	4.4	93.4
0595-6352		3.83	227	5.44	15.35	64.0	113.5
0622-6348		2.11	249	3.80	5.04	48.6	92.4
0647-6350		6.70	334	3.19	2.54	73.5	110.5
0677-6351		3.90	263	4.04	7.83	38.7	109.0
0705-6359		3.73	223	14.15	9.16	81.6	100.5
0731-6359		2.11	278	7.52	4.68	103.5	96.0
0756-6359		2.43	166.5	15.70	12.20	8.9	77.9
0785-6362		2.64	161.0	5.73	15.00	20.0	98.8
0638-6576		3.63	209	5.83	16.10	39.2	231



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CERTIFICATE COMMENTS

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
Au-ICP21

LABORATORY ADDRESSES

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-ICP21

LEV-01

LOG-22

ME-MS61L

PUL-31L

PUL-QC

SPL-21

WEI-21