

MINERALS TEST REPORT

CLIENT	ANA LIZA GARCIA-CUISON EMMERSON RESOURCES LIMITED PO Box 1244 TENNANT CREEK, N.T. 0861 AUSTRALIA
---------------	--

JOB INFORMATION	JOB CODE : 1443.0/2226648 NO. SAMPLES : 87 NO. ELEMENTS : 11 CLIENT ORDER NO. : SAMPLE SUBMISSION NO. : 303781 PROJECT : TENNANT CREEK SAMPLE TYPE : Drill core DATE RECEIVED : 12/12/2022 DATE TESTED : 20/01/2023 - 20/02/2023 DATE REPORTED : 20/02/2023 DATE PRINTED : 20/02/2023
------------------------	---

REPORT NOTES

TESTED BY

Intertek
 544 Bickley Road, Maddington 6109, Western Australia
 PO Box 144, Gosnells 6990, Western Australia
 Tel: +61 8 9263 0100
 Email: min.aus.per@intertek.com

APPROVED SIGNATURE FOR



Fiona DUNBAR-SMITH
 Laboratory Manager - NTEL

This report relates specifically to the sample(s) tested that were drawn and/or provided by the client or their nominated third party to Intertek. The reported result(s) provide no warranty or verification on the sample(s) representing any specific goods and/or shipment. This report was prepared solely for the use of the client named in this report. Intertek accepts no responsibility for any loss, damage or liability suffered by a third party as a result of any reliance upon or use of this report. The results provided are not intended for commercial settlement purposes. Except where explicitly agreed in writing, all work and services performed by Intertek is subject to our standard Terms and Conditions which can be obtained at our website: [intertek.com/terms/](https://www.intertek.com/terms/)



SIGNIFICANT FIGURES

It is common practice to report data derived from analytical instrumentation to a maximum of two or three significant figures. Some data reported herein may show more figures than this. The reporting of more than two or three figures in no way implies that figures beyond the least significant digit have significance.

For more information on the uncertainty on individual reported values, please contact the laboratory.

MEASUREMENT OF UNCERTAINTY

Measurement of uncertainty estimates are available for most tests upon request.

SAMPLE STORAGE

All solid samples (assay pulps, bulk pulps and residues) will be stored for 60 days without charge. Following this samples will be stored at a daily rate until clients written advice regarding return, collection or disposal is received. If storage information is not supplied on the submission, or arranged with the laboratory in writing the default will be to store the samples with the applicable charges. Storage is charged at \$4.00 per m3 per day, expenses related to the return or disposal of samples will also be charged. Current disposal costs including packaging in a Class2 waste disposal facility is charged at \$175.00 per m3.

Samples received as liquids, waters or solutions will be held for 60 days free of charge then disposed of, unless written advice for return or collection is received.

LEGEND	X	= Less than Detection Limit	NA	= Not Analysed
	SNR	= Sample Not Received	UA	= Unable to Assay
	LNR	= Lab Not Received	>	= Value beyond Limit of Method
	DTF	= Result still to come	+	= Extra Sample Received Not Listed
	I/S	= Insufficient Sample for Analysis		

UNITS	ppm for Solid Samples	= mg/Kg
	ppb for Solid Samples	= µg/Kg
	ppm for Liquid Samples	= mg/L
	ppb for Liquid Samples	= µg/L



ELEMENTS	Au	Ag	Bi	Co	Cu	Fe	Mo	Pb	Pb-Rp1	Sb
UNITS	ppb	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
DETECTION LIMIT	1	0.05	0.01	0.1	0.5	0.01	0.1	0.5	50	0.02
DIGEST	AR10/	AR10/	AR10/	AR10/	AR10/	AR10/	AR10/	AR10/	4AH/	AR10/
ANALYTICAL FINISH	MS	MS	MS	MS	MS	MS	MS	MS	OE	MS
SAMPLE NUMBERS										
0001 41044	2	0.10	0.18	5.1	103.5	2.50	1.3	9.3		0.53
0002 41045	4	0.12	0.30	8.2	283.9	6.28	2.7	77.7		0.56
0003 41046	2	0.15	0.52	5.4	231.1	3.97	1.6	65.7		0.80
0004 41047	2	0.07	0.53	4.7	167.0	3.06	1.4	12.5		0.76
0005 41048	31	0.15	0.46	9.6	291.8	4.63	1.8	38.8		1.00
0006 41049	201	0.44	9.94	24.1	898.5	13.19	7.1	218.9		3.32
0007 41050	114	0.63	14.35	38.5	1110.7	14.54	10.6	326.8		5.39
0008 41051	72	0.45	0.50	16.1	448.7	8.98	3.8	13.6		0.85
0009 41052	8	0.30	0.24	29.0	482.2	6.68	1.8	4.6		1.07
0010 41053	1	0.15	0.23	33.4	365.1	4.09	1.1	3.4		2.08
0011 41054	20	1.05	9.56	100.9	1425.2	27.10	1.6	117.4		14.76
0012 41055	9	0.25	29.54	65.1	1782.5	17.89	0.9	193.2		19.03
0013 41056	10	0.50	38.16	86.8	2031.3	22.06	1.3	241.0		23.53
0014 41057	18	0.71	229.39	136.7	4075.3	29.71	3.1	611.0		25.35
0015 41058	24	10.58	25.76	423.3	9707.0	15.24	5.4	3715.1		14.94
0016 41059	34	5.26	8.55	760.3	9008.7	18.67	21.2	>5000.0	4.77%	21.99
0017 41060	35	0.37	3.67	84.3	6605.0	6.74	2.0	8.6		1.10
0018 41061	83	3.86	29.29	841.9	6416.6	12.24	33.2	>5000.0	6.56%	37.16
0019 41062	X	X	X	0.2	2.0	X	X	4.7		0.03
0020 41063	46	3.97	21.98	402.4	3952.3	19.18	21.3	>5000.0	2.50%	14.35
0021 41064	22	3.08	81.01	292.2	2138.1	25.42	15.9	>5000.0	1.05%	6.54
0022 41065	30	7.78	423.24	230.0	3052.4	32.55	25.5	>5000.0	8860	10.76
0023 41066	54	0.97	74.58	169.3	1591.3	32.71	50.1	3440.9		39.29
0024 41067	5	1.18	116.15	123.2	1829.0	34.38	53.2	1572.5		54.38
0025 41068	27	1.41	50.30	100.6	2641.5	38.73	48.8	1250.3		55.84
0026 41069	50	0.59	89.10	101.1	1920.5	31.40	54.0	1436.9		33.71
0027 41070	12	0.97	98.06	105.7	2117.0	34.88	55.7	1513.2		34.55
0028 41071	9	1.15	161.97	113.2	1732.5	33.50	58.0	1506.8		24.36
0029 41072	9	1.15	135.23	105.2	1717.1	36.69	59.1	1529.2		16.78
0030 41073	14	9.34	233.65	95.2	2628.2	37.83	32.6	2200.7		8.42
0031 41074	99	2.93	328.89	95.0	2703.5	42.35	23.1	2196.7		6.81
0032 41075	68	15.56	205.51	132.5	2829.3	34.06	24.4	>5000.0	6743	9.09
0033 41076	88	0.34	37.80	70.4	428.8	29.36	14.0	785.9		8.51
0034 41077	15	0.46	9.88	117.1	298.9	30.18	12.7	414.6		10.12
0035 41078	19	0.17	47.30	246.2	237.9	29.18	10.3	367.0		15.21
0036 41079	8	0.09	36.47	187.5	6.6	29.48	8.2	48.1		14.59
0037 41080	179	0.42	3.02	201.0	3093.3	16.80	66.1	2.5		2.31
0038 41081	13	0.16	59.70	121.4	65.0	32.54	6.2	60.9		10.55
0039 41082	76	0.08	41.73	92.8	36.8	32.17	3.1	47.8		9.54
0040 41083	160	0.17	52.05	95.3	13.9	31.83	2.6	18.9		11.44



ELEMENTS	Se	Zn
UNITS	ppm	ppm
DETECTION LIMIT	1	1
DIGEST	AR10/	AR10/
ANALYTICAL FINISH	MS	MS
SAMPLE NUMBERS		
0001 41044	X	20
0002 41045	X	81
0003 41046	X	76
0004 41047	X	35
0005 41048	X	70
0006 41049	2	227
0007 41050	2	289
0008 41051	X	98
0009 41052	1	249
0010 41053	X	154
0011 41054	2	962
0012 41055	1	1778
0013 41056	2	1876
0014 41057	2	2326
0015 41058	4	1.15%
0016 41059	5	5503
0017 41060	3	26
0018 41061	4	1948
0019 41062	X	1
0020 41063	5	2111
0021 41064	2	723
0022 41065	2	1112
0023 41066	X	377
0024 41067	1	395
0025 41068	X	722
0026 41069	X	959
0027 41070	X	942
0028 41071	X	1000
0029 41072	1	1461
0030 41073	1	1042
0031 41074	2	901
0032 41075	1	1251
0033 41076	X	863
0034 41077	X	1108
0035 41078	1	1731
0036 41079	X	1489
0037 41080	2	23
0038 41081	1	882
0039 41082	1	1261
0040 41083	1	548



ELEMENTS	Au	Ag	Bi	Co	Cu	Fe	Mo	Pb	Pb-Rp1	Sb
UNITS	ppb	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
DETECTION LIMIT	1	0.05	0.01	0.1	0.5	0.01	0.1	0.5	50	0.02
DIGEST	AR10/	AR10/	AR10/	AR10/	AR10/	AR10/	AR10/	AR10/	4AH/	AR10/
ANALYTICAL FINISH	MS	MS	MS	MS	MS	MS	MS	MS	OE	MS
SAMPLE NUMBERS										
0041 41084	78	0.09	48.30	67.6	10.1	28.44	2.4	23.0		10.41
0042 41085	131	0.06	41.83	65.5	12.8	30.40	2.9	19.3		11.50
0043 41086	47	0.07	27.83	99.3	21.9	30.01	4.2	15.9		10.64
0044 41087	34	X	25.38	121.9	79.1	25.53	3.3	26.2		4.87
0045 41088	38	X	33.53	335.8	868.7	29.16	2.4	42.4		5.48
0046 41089	16	0.06	25.70	161.9	106.7	28.72	1.9	13.6		6.89
0047 41090	20	X	29.31	326.6	768.0	29.30	2.2	44.6		5.34
0048 41091	101	X	24.04	142.2	2098.1	29.14	8.0	369.7		4.05
0049 41092	67	0.08	65.18	67.9	1578.6	22.61	4.5	74.6		2.70
0050 41093	37	X	140.80	41.6	275.9	24.79	3.0	39.9		5.29
0051 41094	92	X	324.71	23.9	22.9	21.23	1.0	57.9		3.22
0052 41095	200	X	76.04	23.2	14.9	25.76	1.8	22.5		2.09
0053 41096	2	0.13	0.80	21.9	39.4	21.46	1.3	3.4		1.29
0054 41097	1	0.10	0.90	24.7	251.4	12.71	2.4	22.1		2.63
0055 41098	4	0.44	2.62	34.5	209.6	18.71	2.5	76.1		2.33
0056 41099	3	0.15	3.12	34.9	217.6	7.06	1.3	178.0		2.64
0057 41100	X	X	0.26	3.1	3.1	1.36	0.4	3.3		0.25
0058 41101	2	0.13	3.99	35.7	164.6	12.46	2.5	73.1		5.44
0059 41102	8	0.17	1.30	34.9	295.4	13.41	1.8	144.4		2.37
0060 41103	5	0.17	1.57	38.4	84.5	11.00	18.9	132.6		2.15
0061 41104	15	0.27	7.25	34.4	1195.8	9.39	44.1	243.2		1.69
0062 41105	4	0.20	3.91	40.4	438.5	10.03	0.7	552.3		9.81
0063 41106	63	4.02	51.18	25.5	1217.1	9.80	0.6	>5000.0	7549	7.98
0064 41107	385	4.87	62.33	14.1	149.4	6.18	0.4	>5000.0	9647	3.95
0065 41108	69	0.82	8.79	26.2	152.3	8.42	0.4	1355.1		7.81
0066 41109	8	0.34	3.22	26.9	90.9	3.50	0.3	755.8		7.70
0067 41110	8	0.34	2.43	27.5	59.1	5.14	0.3	710.6		6.63
0068 41111	4	0.52	2.56	18.4	14.3	2.93	0.3	678.5		6.30
0069 41112	5	0.38	8.04	11.7	24.0	4.03	0.3	435.9		2.62
0070 41113	20	0.27	109.75	14.1	128.4	7.53	2.1	409.8		2.26
0071 41114	6	X	5.79	32.4	56.2	10.40	4.1	31.3		2.90
0072 41115	8	X	0.60	20.7	480.1	4.80	0.5	116.3		9.06
0073 41116	4	X	1.84	34.1	438.8	7.27	1.3	20.1		1.78
0074 41117	59	0.07	5.68	19.9	3023.9	5.24	0.7	110.2		9.56
0075 41118	8	0.05	6.09	22.5	782.1	5.55	0.5	69.1		4.69
0076 41119	2	0.06	4.80	31.6	5.0	7.61	23.5	7.7		0.58
0077 41120	570	1.24	8.88	527.8	9113.7	24.45	193.5	5.0		5.95
0078 41121	2	X	4.71	38.9	4.5	8.88	1.3	6.5		0.25
0079 41122	5	0.09	17.81	44.9	6.0	9.77	21.2	20.1		1.59
0080 41123	1	X	0.91	42.1	1.1	11.02	13.4	5.8		0.47



ELEMENTS	Se	Zn
UNITS	ppm	ppm
DETECTION LIMIT	1	1
DIGEST	AR10/	AR10/
ANALYTICAL FINISH	MS	MS
SAMPLE NUMBERS		
0041 41084	5	684
0042 41085	2	1088
0043 41086	8	1056
0044 41087	X	1319
0045 41088	2	504
0046 41089	2	531
0047 41090	2	462
0048 41091	1	1044
0049 41092	6	849
0050 41093	62	578
0051 41094	9	99
0052 41095	4	51
0053 41096	7	90
0054 41097	X	357
0055 41098	4	363
0056 41099	2	1169
0057 41100	X	20
0058 41101	1	1705
0059 41102	X	1717
0060 41103	X	2612
0061 41104	2	1848
0062 41105	3	1474
0063 41106	6	3412
0064 41107	5	2358
0065 41108	1	3105
0066 41109	X	3522
0067 41110	X	3196
0068 41111	X	2187
0069 41112	2	608
0070 41113	10	203
0071 41114	1	327
0072 41115	1	255
0073 41116	1	362
0074 41117	6	265
0075 41118	2	292
0076 41119	X	354
0077 41120	3	31
0078 41121	X	372
0079 41122	2	359
0080 41123	X	374



ELEMENTS	Au	Ag	Bi	Co	Cu	Fe	Mo	Pb	Pb-Rp1	Sb
UNITS	ppb	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
DETECTION LIMIT	1	0.05	0.01	0.1	0.5	0.01	0.1	0.5	50	0.02
DIGEST	AR10/	AR10/	AR10/	AR10/	AR10/	AR10/	AR10/	AR10/	4AH/	AR10/
ANALYTICAL FINISH	MS	MS	MS	MS	MS	MS	MS	MS	OE	MS
SAMPLE NUMBERS										

0081 41124	9	0.09	56.24	43.1	11.1	10.19	11.1	33.1		0.60
0082 41125	X	X	1.16	42.2	1.5	11.41	0.9	7.1		0.37
0083 41126	1	X	2.82	41.7	3.2	10.41	1.8	6.7		0.26
0084 41127	65	0.41	101.09	38.6	2630.6	10.08	4.3	71.8		3.14
0085 41128	1	X	0.53	39.9	4.1	9.61	6.4	3.1		0.28
0086 41129	2	X	2.39	39.4	7.4	9.33	1.5	6.3		0.35
0087 41130	2	X	1.57	43.1	7.7	10.22	1.0	5.5		0.44

CHECKS										
0001 41069	57	0.59	90.86	102.2	1911.6	31.99	56.5	1446.4		32.51
0002 41076	87	0.34	36.50	66.9	410.6	27.41	13.2	759.5		8.33
0003 41107	349	4.91	61.94	14.3	153.1	6.17	0.3	>5000.0		3.69

STANDARDS										
0001 OREAS 153b	303	1.46	1.63	15.1	6841.5	3.71	160.7	12.0		2.65
0002 OREAS 501d	212	0.58	1.15	8.1	2440.4	2.94	84.3	7.6		1.68
0003 OREAS 501d	218	0.59	1.19	8.2	2451.5	2.95	84.7	9.0		1.73

BLANKS										
0001 Control Blank	X	X	X	X	X	X	X	X		X
0002 Control Blank	X	X	0.01	X	X	X	X	X		X
0003 Control Blank	X	X	0.01	X	X	X	X	X		X
0004 Control Blank	X	X	0.02	0.1	X	X	X	X		X

SNR 41062



ELEMENTS	Se	Zn
UNITS	ppm	ppm
DETECTION LIMIT	1	1
DIGEST	AR10/	AR10/
ANALYTICAL FINISH	MS	MS
SAMPLE NUMBERS		
0081 41124	5	284
0082 41125	X	271
0083 41126	X	222
0084 41127	20	135
0085 41128	X	155
0086 41129	1	150
0087 41130	X	165
CHECKS		
0001 41069	1	997
0002 41076	X	819
0003 41107	5	2404
STANDARDS		
0001 OREAS 153b	11	119
0002 OREAS 501d	2	78
0003 OREAS 501d	2	77
BLANKS		
0001 Control Blank	X	X
0002 Control Blank	X	X
0003 Control Blank	X	X
0004 Control Blank	X	X
SNR	41062	



METHOD CODE DESCRIPTION

Method Code Date Tested	Analysing Laboratory NATA Laboratory Accreditation	NATA Scope of Accreditation
AR10/MS 20/01/23 07:18	NTEL Lab Darwin Aqua-Regia digest. Analysed by Inductively Coupled Plasma Mass Spectrometry.	*

* Denotes not on Scope of Accreditation