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To: COUREUR DES BOIS  
3 RYDER PLACE  
WHITEHORSE YT Y1A 5T5

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Plus Appendix Pages  
Finalized Date: 25-SEP-2017  
This copy reported on  
23-OCT-2018  
Account: COUDES

**WH17157008**

Project: YUKON 2017

P.O. No.: CDB2017-1

This report is for 280 Soil samples submitted to our lab in Whitehorse, YT, Canada on 29-JUL-2017.

The following have access to data associated with this certificate:

DANIELE HEON

D. JACOB

### SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SCR-41	Screen to -180um and save both

### ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-MS41L	Super Trace Lowest DL AR 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:

Colin Ramshaw, Vancouver Laboratory Manager



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**CERTIFICATE OF ANALYSIS WH17157008**

Sample Description	Method Analyte Units LOD	WEI-21 Recvd WL kg	Au-ICP21 Au ppm	ME-MS41L Au ppm	ME-MS41L Ag ppm	ME-MS41L Al %	ME-MS41L As ppm	ME-MS41L B ppm	ME-MS41L Ba ppm	ME-MS41L Be ppm	ME-MS41L Bi ppm	ME-MS41L Ca %	ME-MS41L Cd ppm	ME-MS41L Ce ppm	ME-MS41L Co ppm	ME-MS41L Cr ppm
		0.02	0.001	0.0002	0.001	0.01	0.01	10	0.5	0.01	0.001	0.01	0.001	0.003	0.001	0.01
NET84A		0.47	<0.001	0.0005	0.408	1.96	13.05	<10	307	0.43	0.175	0.51	0.470	30.2	10.25	30.7
NET85A		0.30	<0.001	0.0008	0.934	0.93	11.40	<10	126.0	0.18	0.264	0.13	0.380	15.40	3.81	20.1
NET86A		0.18	<0.001	0.0074	0.383	0.95	5.69	<10	205	0.16	0.202	0.11	0.431	22.9	5.51	22.1
NET87A		0.11	<0.001	0.0010	0.512	1.43	4.61	<10	418	0.30	0.132	1.21	1.055	25.1	11.05	33.8
NET88A		0.10	<0.001	0.0008	0.377	1.22	3.13	<10	276	0.19	0.135	0.32	0.395	16.95	6.08	33.6
NET89A		0.13	<0.001	0.0011	0.352	1.54	3.02	<10	364	0.30	0.190	0.42	0.374	26.8	9.41	52.5
NET90A		0.42	<0.001	0.0013	0.334	2.08	6.87	<10	406	0.42	0.255	0.31	0.230	36.4	10.70	40.3
NET91A		0.46	<0.001	0.0004	0.199	0.89	3.54	<10	98.7	0.30	0.923	0.18	0.273	22.4	3.40	8.72
NET92A		0.16	<0.001	0.0007	0.207	1.49	7.56	<10	215	0.27	0.196	0.50	0.254	25.9	11.85	37.2
NET93A		0.48	<0.001	0.0051	0.062	1.41	5.17	<10	180.5	0.47	0.292	0.36	0.089	38.4	12.00	20.9
NET94A		0.58	<0.001	0.0218	0.089	1.44	5.17	<10	230	0.59	0.322	0.48	0.117	52.4	6.73	22.0
NET95A		0.32	<0.001	0.0097	0.143	1.49	5.07	<10	205	0.62	0.401	0.44	0.132	43.7	6.64	21.6
NET96A		0.42	<0.001	0.0044	0.062	1.33	5.43	<10	197.0	0.50	0.257	0.33	0.042	44.0	5.38	20.4
NET97A		0.52	<0.001	0.0021	0.047	1.27	2.90	<10	126.5	0.36	0.412	0.15	0.031	25.6	3.67	14.80
NET98A		0.48	<0.001	0.0038	0.063	2.59	8.14	<10	187.0	0.70	0.323	0.15	0.030	42.8	7.49	33.3
NET99A		0.28	<0.001	0.0021	0.069	2.03	4.35	<10	190.5	0.40	0.197	0.15	0.075	15.15	6.71	19.85
NET100A		0.42	<0.001	0.0015	0.025	1.46	4.76	<10	93.5	0.34	0.399	0.10	0.037	21.2	4.52	14.75
NET101A		0.33	<0.001	0.0025	0.049	1.17	2.95	<10	122.5	0.36	0.320	0.19	0.031	31.1	5.13	14.35
NET102A		0.45	<0.001	0.0035	0.062	1.25	3.97	<10	140.0	0.35	0.296	0.24	0.065	36.4	4.34	17.10
NET103A		0.60	<0.001	0.0024	0.026	1.85	5.75	<10	201	0.39	0.202	0.25	0.060	22.3	7.00	25.5



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**CERTIFICATE OF ANALYSIS WH17157008**

Sample Description	Method Analyte Units LOD	ME-MS41L Cs ppm 0.005	ME-MS41L Cu ppm 0.01	ME-MS41L Fe % 0.001	ME-MS41L Ga ppm 0.004	ME-MS41L Ge ppm 0.005	ME-MS41L Hf ppm 0.002	ME-MS41L Hg ppm 0.004	ME-MS41L In ppm 0.005	ME-MS41L K % 0.01	ME-MS41L La ppm 0.002	ME-MS41L Li ppm 0.1	ME-MS41L Mg % 0.01	ME-MS41L Mn ppm 0.1	ME-MS41L Mo ppm 0.01	ME-MS41L Na % 0.001
NET84A		1.090	32.8	3.00	6.42	0.050	0.027	0.020	0.020	0.07	15.80	15.5	0.52	426	1.59	0.021
NET85A		0.752	30.9	2.62	6.93	0.038	0.021	0.041	0.021	0.06	8.18	3.9	0.12	97.5	3.92	0.018
NET86A		1.360	36.2	2.21	5.03	0.037	0.009	0.084	0.015	0.07	12.15	6.7	0.33	242	2.58	0.016
NET87A		1.105	47.5	2.01	3.86	0.059	0.026	0.086	0.020	0.05	13.00	10.3	0.67	727	1.65	0.027
NET88A		1.365	22.9	1.690	4.38	0.035	0.008	0.056	0.016	0.05	8.29	8.5	0.50	156.0	1.06	0.020
NET89A		1.715	27.9	1.950	5.18	0.052	0.008	0.046	0.017	0.05	13.95	11.4	0.79	427	1.38	0.020
NET90A		1.175	30.4	2.67	6.53	0.063	0.017	0.036	0.023	0.07	21.1	15.7	0.74	334	1.72	0.017
NET91A		1.570	14.30	1.320	3.19	0.034	0.003	0.010	0.007	0.10	10.20	6.6	0.21	140.5	3.23	0.010
NET92A		0.804	20.7	2.25	4.63	0.054	0.015	0.041	0.015	0.07	14.45	12.5	0.70	427	1.62	0.024
NET93A		0.625	14.20	1.910	4.48	0.061	0.056	0.029	0.018	0.09	20.9	9.8	0.35	532	0.88	0.022
NET94A		0.589	20.8	1.960	4.60	0.077	0.048	0.034	0.020	0.08	27.3	11.0	0.39	345	0.88	0.025
NET95A		0.553	19.85	1.940	4.75	0.072	0.043	0.037	0.021	0.10	27.2	9.7	0.34	254	1.01	0.024
NET96A		0.544	17.30	1.920	4.11	0.066	0.110	0.031	0.019	0.07	23.8	10.4	0.39	174.5	0.65	0.023
NET97A		0.589	8.60	1.530	4.62	0.034	0.020	0.018	0.012	0.11	14.05	7.7	0.28	125.0	0.80	0.014
NET98A		0.680	16.40	2.93	7.31	0.069	0.209	0.016	0.030	0.08	22.8	15.8	0.44	192.0	1.13	0.011
NET99A		0.703	10.10	2.27	7.07	0.031	0.021	0.012	0.017	0.06	6.93	13.2	0.31	251	0.89	0.011
NET100A		0.718	8.47	1.660	4.88	0.033	0.024	0.011	0.018	0.10	10.90	10.2	0.22	137.0	0.80	0.009
NET101A		0.594	9.24	1.430	3.42	0.044	0.045	0.019	0.013	0.10	20.7	7.7	0.25	171.5	0.54	0.013
NET102A		0.661	12.25	1.600	3.89	0.051	0.029	0.014	0.018	0.09	22.0	9.0	0.33	119.0	0.57	0.018
NET103A		0.425	11.90	2.28	4.56	0.042	0.157	0.020	0.025	0.07	12.30	11.7	0.43	216	0.66	0.017



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**CERTIFICATE OF ANALYSIS WH17157008**

Sample Description	Method Analyte Units LOD	ME-MS41L Nb ppm 0.002	ME-MS41L Ni ppm 0.04	ME-MS41L P % 0.001	ME-MS41L Pb ppm 0.005	ME-MS41L Pd ppm 0.001	ME-MS41L Pt ppm 0.002	ME-MS41L Rb ppm 0.005	ME-MS41L Re ppm 0.001	ME-MS41L S % 0.01	ME-MS41L Sb ppm 0.005	ME-MS41L Sc ppm 0.005	ME-MS41L Se ppm 0.1	ME-MS41L Sn ppm 0.01	ME-MS41L Sr ppm 0.01	ME-MS41L Ta ppm 0.005
NET84A		1.310	29.8	0.040	8.84	<0.001	<0.002	15.80	<0.001	0.04	0.398	3.20	0.6	0.52	45.2	<0.005
NET85A		1.210	18.60	0.050	10.55	<0.001	<0.002	8.97	<0.001	0.07	0.567	1.815	1.2	0.64	21.5	<0.005
NET86A		0.730	20.7	0.057	9.69	0.001	<0.002	9.73	<0.001	0.09	0.310	1.255	0.7	0.41	25.4	<0.005
NET87A		0.896	34.0	0.098	8.13	<0.001	<0.002	6.76	<0.001	0.13	0.365	2.62	1.2	0.27	64.3	<0.005
NET88A		0.660	20.8	0.073	7.46	<0.001	<0.002	8.63	<0.001	0.08	0.178	1.605	0.8	0.30	25.8	<0.005
NET89A		0.741	30.2	0.066	13.25	<0.001	<0.002	11.65	<0.001	0.06	0.223	2.57	0.8	0.36	28.4	<0.005
NET90A		1.190	28.9	0.050	12.10	<0.001	<0.002	13.25	<0.001	0.03	0.336	3.64	0.7	0.58	27.6	<0.005
NET91A		0.586	6.20	0.022	40.2	<0.001	<0.002	12.95	<0.001	0.02	0.126	1.060	0.2	0.57	385	<0.005
NET92A		1.180	23.6	0.057	12.50	0.001	<0.002	10.10	<0.001	0.04	0.249	2.98	0.8	0.35	42.7	<0.005
NET93A		1.630	12.10	0.032	14.90	<0.001	<0.002	12.85	<0.001	0.02	0.345	3.23	0.2	0.64	45.7	<0.005
NET94A		1.360	15.35	0.038	14.50	<0.001	<0.002	12.60	<0.001	0.02	0.377	3.85	0.3	0.68	51.0	<0.005
NET95A		1.505	13.30	0.046	16.05	<0.001	<0.002	12.00	<0.001	0.03	0.358	3.66	0.4	0.63	58.3	<0.005
NET96A		1.515	12.55	0.032	12.05	<0.001	<0.002	10.75	<0.001	0.01	0.431	3.43	0.3	0.54	33.2	<0.005
NET97A		1.580	8.90	0.016	13.80	<0.001	<0.002	14.45	<0.001	0.01	0.207	1.920	0.2	0.83	24.7	<0.005
NET98A		1.705	18.65	0.015	14.50	<0.001	<0.002	13.80	<0.001	0.01	0.426	4.02	0.1	0.87	24.0	<0.005
NET99A		1.625	13.15	0.027	13.00	<0.001	<0.002	13.05	<0.001	0.01	0.267	2.03	<0.1	1.13	39.2	<0.005
NET100A		1.625	10.15	0.015	17.50	<0.001	<0.002	16.25	<0.001	0.01	0.212	1.620	0.1	0.99	21.8	<0.005
NET101A		1.310	8.78	0.028	16.75	<0.001	<0.002	12.85	<0.001	0.01	0.193	1.925	0.2	0.70	24.5	<0.005
NET102A		1.235	10.60	0.033	12.25	<0.001	<0.002	12.50	<0.001	0.01	0.253	2.18	0.2	0.66	28.4	<0.005
NET103A		0.977	14.00	0.030	7.90	0.001	<0.002	7.71	<0.001	0.01	0.292	3.32	0.2	0.49	22.4	<0.005



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**CERTIFICATE OF ANALYSIS WH17157008**

Sample Description	Method Analyte Units LOD	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	
		Te	Th	Ti	Tl	U	V	W	Y	Zn	Zr
		ppm 0.01	ppm 0.002	% 0.001	ppm 0.002	ppm 0.005	ppm 0.1	ppm 0.001	ppm 0.003	ppm 0.1	ppm 0.01
NET84A		0.04	2.99	0.070	0.111	0.808	69.9	0.136	6.01	74.4	1.33
NET85A		0.10	0.946	0.082	0.107	0.799	84.7	0.248	2.78	48.2	1.04
NET86A		0.06	0.230	0.056	0.072	0.716	57.6	0.139	3.26	60.5	0.42
NET87A		0.04	0.633	0.049	0.113	1.550	53.0	0.100	15.15	107.5	1.44
NET88A		0.03	0.155	0.039	0.096	0.882	31.6	0.108	4.43	57.4	0.26
NET89A		0.04	0.743	0.051	0.114	0.952	40.4	0.110	6.28	62.4	0.44
NET90A		0.08	2.23	0.076	0.119	1.175	62.2	0.146	9.52	83.9	0.77
NET91A		0.07	3.36	0.020	0.083	1.970	19.3	0.106	8.97	66.4	0.24
NET92A		0.05	2.10	0.074	0.084	1.200	53.7	0.151	7.09	68.2	0.88
NET93A		0.03	8.73	0.083	0.084	1.145	45.1	0.187	8.08	38.2	2.92
NET94A		0.04	7.98	0.076	0.080	2.22	40.3	0.242	12.45	40.3	2.41
NET95A		0.03	6.98	0.072	0.075	1.760	40.1	0.193	12.00	36.9	2.35
NET96A		0.04	9.60	0.086	0.083	1.420	40.9	0.166	10.20	39.8	5.84
NET97A		0.04	6.82	0.062	0.101	0.951	31.3	0.162	4.45	26.0	1.06
NET98A		0.04	11.90	0.093	0.099	0.984	66.2	0.169	7.78	38.8	8.54
NET99A		0.03	3.47	0.059	0.124	0.394	54.7	0.207	2.14	39.3	1.33
NET100A		0.03	8.92	0.052	0.107	0.787	35.4	0.162	4.21	22.1	1.38
NET101A		0.03	9.29	0.055	0.081	1.100	28.3	0.134	7.23	24.3	2.17
NET102A		0.04	6.75	0.070	0.089	1.315	32.8	0.159	7.73	34.5	1.41
NET103A		0.02	6.18	0.093	0.060	0.800	51.6	0.146	5.03	38.4	6.92



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**CERTIFICATE COMMENTS**

**ANALYTICAL COMMENTS**

Applies to Method: NSS is non-sufficient sample.  
ALL METHODS

Applies to Method: Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g).  
ME-MS41L

**LABORATORY ADDRESSES**

Applies to Method: Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.  
LOG-22 SCR-41 WEI-21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.  
Au-ICP21 ME-MS41L