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To: **HULSTEIN, ROGER**
106 WILSON DR.
WHITEHORSE YT Y1A 5R2

Page: 1
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 Plus Appendix Pages
 Finalized Date: 17-OCT-2016
 This copy reported on
 2-NOV-2016
 Account: HULROG

CERTIFICATE WH16163700

Project: Nooc Claims

This report is for 23 Soil samples submitted to our lab in Whitehorse, YT, Canada on 27-SEP-2016.

The following have access to data associated with this certificate:

DANIELE HEON ROGER HULSTEIN	ROGER HULSTEIN R. HULSTEIN	R. HULSTEIN
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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-ST43	Super Trace Au - 25g AR	ICP-MS
Au-AROR43	Au AR Overrange - 25g	ICP-MS
ME-MS41L	Super Trace Lowest DL AR by ICP-MS	

To: **HULSTEIN, ROGER**
ATTN: R. HULSTEIN
106 WILSON DR.
WHITEHORSE YT Y1A 5R2

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 WH16163700

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	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	ME-MS41L Cs ppm
		0.02	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	0.005
I030101		0.36	0.0032	0.141	2.11	5.40	<10	166.5	0.37	0.095	0.79	0.154	25.1	13.80	40.6	0.927
I030102		0.45	0.0235	0.280	1.08	17.05	<10	130.5	0.36	0.086	0.48	0.040	17.80	8.64	41.3	0.523
I030103		0.32	0.0037	0.102	1.51	12.50	<10	161.5	0.46	0.080	0.64	0.067	21.9	18.50	47.1	0.800
I030104		0.48	0.0062	0.224	1.98	7.04	<10	159.0	0.35	0.051	6.52	0.268	17.30	19.55	38.7	0.941
I030105		0.52	0.0019	0.190	2.08	6.23	<10	105.0	0.31	0.075	0.94	0.099	20.3	15.45	42.1	0.933
I030106		0.45	0.0064	0.289	1.85	6.71	<10	103.5	0.55	0.060	4.64	0.251	18.90	18.05	45.3	0.858
I030107		0.49	0.0020	0.128	2.61	5.50	<10	79.4	0.53	0.059	0.53	0.097	16.60	21.0	50.3	0.996
I030108		0.40	0.0021	0.088	2.60	7.18	<10	118.5	0.47	0.091	0.85	0.190	24.6	17.00	36.2	0.596
I030109		0.34	0.0003	0.061	1.22	2.89	<10	106.0	0.25	0.075	0.36	0.118	9.07	6.75	23.1	0.412
I030110		0.39	0.0046	0.100	1.29	23.0	<10	149.5	0.43	0.076	0.62	0.218	20.3	11.60	26.4	0.483
I030111		0.45	0.0017	0.029	0.99	1.56	<10	80.3	0.43	0.063	0.17	0.028	31.3	5.06	13.15	0.253
I030112		0.39	0.0028	0.047	1.07	28.9	10	151.5	0.36	0.035	2.14	0.121	12.35	16.65	21.5	0.673
I030113		0.40	0.0098	0.076	0.36	9.78	<10	41.5	0.11	0.074	5.12	0.154	16.10	3.84	8.97	0.421
I030114		0.44	0.0291	0.061	1.00	4.50	<10	58.2	0.55	0.075	0.35	0.043	60.4	8.72	18.50	0.183
I030115		0.45	0.0032	0.509	1.11	24.5	<10	293	0.63	0.201	0.48	0.811	19.60	12.50	23.5	0.399
I030116		0.52	0.0190	0.033	1.36	1.42	<10	59.3	0.68	0.066	0.29	0.032	71.5	7.21	22.0	0.258
I030117		0.34	0.0012	0.120	0.77	13.50	<10	692	0.41	0.054	2.34	0.144	12.55	19.05	23.4	0.758
I030118		0.40	0.0015	0.066	1.65	9.42	<10	162.0	0.78	0.239	0.42	0.283	14.15	9.69	22.0	0.658
I030119		0.31	0.0006	0.214	1.13	8.09	<10	558	0.70	0.041	2.66	0.444	16.05	17.85	22.8	1.390
I030120		0.49	0.0009	0.069	0.89	13.15	<10	157.5	0.34	0.076	0.63	0.154	18.45	8.79	17.75	0.901
I030121		0.42	0.873	0.192	0.32	2500	<10	62.8	0.47	0.076	3.13	0.158	12.50	21.4	9.27	0.434
I030122		0.44	0.0122	0.034	1.54	66.3	<10	138.5	0.44	0.085	0.37	0.046	17.75	11.00	33.3	0.569
I030123		0.33	0.0032	0.080	1.31	26.8	<10	438	0.45	0.130	1.41	0.223	19.40	15.05	35.7	0.414



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Project: Nooc Claims

CERTIFICATE OF ANALYSIS WH16163700

Sample Description	Method Analyte Units LOR	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L
		Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm
I030101		55.6	3.24	6.37	0.071	0.123	0.127	0.036	0.06	14.35	18.6	1.03	628	0.75	0.053	0.331
I030102		18.50	2.43	3.60	0.039	0.059	0.058	0.019	0.09	8.42	6.5	0.38	186.5	0.50	0.013	0.767
I030103		54.9	3.96	6.26	0.076	0.092	0.043	0.036	0.08	14.20	12.0	0.73	597	1.12	0.018	0.421
I030104		83.1	4.13	7.97	0.065	0.125	0.064	0.036	0.06	8.83	22.5	1.49	607	0.51	0.023	0.174
I030105		50.5	3.74	8.97	0.058	0.068	0.081	0.046	0.12	9.62	16.8	0.73	379	1.05	0.014	0.305
I030106		95.8	4.18	9.00	0.069	0.096	0.110	0.041	0.08	9.97	15.9	1.07	620	0.53	0.016	0.225
I030107		92.1	5.36	13.20	0.090	0.258	0.018	0.045	0.04	11.40	24.2	1.63	418	0.28	0.017	0.124
I030108		50.3	3.81	7.16	0.065	0.134	0.028	0.035	0.09	11.20	18.7	1.12	443	1.06	0.083	0.487
I030109		12.45	1.960	4.25	0.025	0.068	0.016	0.012	0.03	4.41	7.7	0.40	200	0.74	0.018	0.680
I030110		32.1	3.15	4.43	0.061	0.034	0.035	0.025	0.07	13.05	9.3	0.50	500	2.09	0.022	0.346
I030111		6.91	1.840	4.92	0.041	0.038	0.007	0.013	0.09	16.55	10.3	0.31	199.5	0.32	0.008	0.197
I030112		50.4	3.29	3.36	0.044	0.071	0.094	0.024	0.17	5.53	6.5	0.39	469	0.26	0.022	0.279
I030113		12.90	8.38	4.74	0.069	0.065	0.028	0.027	0.18	8.61	6.6	0.19	120.5	3.03	0.254	0.127
I030114		17.25	2.00	4.65	0.088	0.060	0.021	0.028	0.05	34.4	8.9	0.38	363	1.09	0.010	0.126
I030115		104.5	4.80	3.01	0.096	0.072	0.077	0.071	0.15	14.90	7.8	0.26	212	16.60	0.056	0.050
I030116		11.90	2.62	6.39	0.060	0.041	0.007	0.022	0.06	28.5	16.5	0.40	419	0.52	0.007	0.118
I030117		82.7	5.59	2.26	0.057	0.083	0.024	0.032	0.16	6.32	3.2	0.35	746	0.76	0.009	0.066
I030118		72.8	3.96	4.42	0.056	0.073	0.025	0.051	0.09	8.11	12.8	0.49	172.0	5.89	0.009	0.168
I030119		81.6	4.23	4.47	0.056	0.050	0.042	0.039	0.18	8.08	6.3	0.39	764	0.61	0.014	0.125
I030120		24.8	2.15	2.97	0.045	0.033	0.028	0.017	0.06	9.54	5.2	0.25	320	1.05	0.016	0.364
I030121		116.5	3.58	1.540	0.056	0.039	2.20	0.032	0.10	5.31	1.1	0.59	659	0.32	0.007	0.032
I030122		24.4	3.09	5.08	0.048	0.061	0.030	0.025	0.05	9.43	10.1	0.75	357	1.32	0.015	0.434
I030123		55.1	3.54	4.25	0.059	0.068	0.054	0.030	0.11	11.20	9.4	0.57	429	1.77	0.015	0.879



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CERTIFICATE OF ANALYSIS WH16163700

Sample Description	Method Analyte Units LOR	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	
		Ni ppm	P %	Pb ppm	Pd ppm	Pt ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm
I030101		30.3	0.039	6.25	0.002	0.002	5.89	<0.001	0.01	0.304	13.75	0.5	0.38	45.6	<0.005	0.04
I030102		23.2	0.026	3.93	0.001	0.002	7.29	<0.001	0.01	1.135	5.79	0.3	0.24	29.3	<0.005	0.01
I030103		35.0	0.028	5.59	<0.001	0.002	7.61	<0.001	0.01	0.568	16.95	0.7	0.34	37.9	<0.005	0.01
I030104		28.9	0.079	3.71	0.006	0.003	5.04	0.001	0.02	0.509	15.30	0.7	0.31	143.5	<0.005	0.02
I030105		17.90	0.033	4.84	0.001	0.002	8.88	<0.001	0.02	0.442	21.0	0.5	0.36	34.4	<0.005	<0.01
I030106		25.8	0.069	4.31	0.003	0.003	5.81	0.001	0.03	0.376	18.40	0.5	0.36	88.4	<0.005	0.03
I030107		29.6	0.024	4.55	0.002	0.004	3.73	<0.001	0.01	0.252	23.8	0.2	0.53	23.5	<0.005	0.02
I030108		33.9	0.031	6.15	0.002	0.002	8.06	<0.001	0.01	0.466	12.80	0.8	0.39	55.8	<0.005	0.01
I030109		13.60	0.014	3.94	<0.001	<0.002	3.92	<0.001	0.01	0.207	3.20	0.1	0.29	18.70	<0.005	0.01
I030110		22.6	0.030	5.12	0.003	0.002	5.78	0.001	0.01	0.781	10.40	1.0	0.29	29.3	<0.005	0.01
I030111		6.52	0.028	6.11	<0.001	<0.002	6.78	<0.001	0.01	0.177	2.19	0.1	0.26	10.10	<0.005	<0.01
I030112		16.25	0.032	2.45	0.007	0.003	6.87	<0.001	0.03	1.470	16.55	0.2	0.23	97.6	<0.005	0.02
I030113		4.70	0.036	8.62	0.001	<0.002	7.17	0.001	4.30	0.282	1.745	0.7	0.30	184.5	<0.005	0.02
I030114		13.90	0.039	8.74	0.002	0.002	3.16	0.001	0.02	0.177	6.78	0.2	0.28	14.45	<0.005	0.02
I030115		63.3	0.076	11.65	0.002	0.003	5.25	0.014	0.36	3.49	13.90	7.9	0.40	193.5	<0.005	0.11
I030116		10.05	0.062	7.58	0.002	0.002	4.48	<0.001	0.01	0.135	5.28	0.1	0.47	7.54	<0.005	<0.01
I030117		22.1	0.058	2.98	0.004	0.003	8.06	<0.001	0.03	0.338	17.35	0.5	0.20	86.4	<0.005	0.02
I030118		29.3	0.053	10.15	0.002	<0.002	5.40	0.017	0.05	1.820	7.72	4.4	0.52	45.6	<0.005	0.07
I030119		20.9	0.054	4.45	<0.001	0.003	10.30	0.001	0.03	0.256	25.4	0.6	0.24	94.7	<0.005	<0.01
I030120		21.6	0.065	6.55	0.001	0.002	5.52	<0.001	0.02	0.374	6.33	0.3	0.22	34.6	<0.005	0.01
I030121		26.7	0.104	4.66	0.003	0.003	4.30	<0.001	0.24	51.0	14.75	2.7	0.25	141.0	<0.005	0.04
I030122		25.0	0.025	5.66	<0.001	<0.002	4.73	<0.001	0.01	1.015	9.61	0.8	0.32	28.8	<0.005	0.02
I030123		35.1	0.028	4.99	<0.001	<0.002	5.98	0.001	0.02	0.793	13.00	0.7	0.39	47.7	<0.005	0.03



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CERTIFICATE OF ANALYSIS WH16163700

Sample Description	Method Analyte Units LOR	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	ME-MS41L	Au-ST43	Au-AROR43
		Th ppm	Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm	Au ppm	Au ppm
I030101		2.42	0.027	0.105	0.572	87.3	0.123	16.10	53.1	3.43	0.0028	
I030102		3.34	0.038	0.059	0.557	60.2	0.379	3.72	26.0	2.02	0.0421	
I030103		2.49	0.032	0.100	0.365	114.0	0.130	17.55	64.7	3.17	0.0036	
I030104		1.110	0.015	0.080	0.368	118.5	0.095	14.75	78.0	2.81	0.0062	
I030105		1.395	0.010	0.063	0.398	124.0	0.149	14.60	45.8	1.73	0.0011	
I030106		1.110	0.015	0.081	0.340	144.0	0.109	16.20	69.3	2.12	0.0055	
I030107		1.685	0.020	0.036	0.309	162.5	0.033	18.80	72.6	6.52	0.0020	
I030108		2.36	0.032	0.133	0.564	95.7	0.117	11.20	61.5	4.23	0.0020	
I030109		1.080	0.043	0.068	0.210	53.8	0.643	2.20	35.1	2.17	<0.0001	
I030110		1.680	0.021	0.110	0.452	76.2	0.103	14.65	60.8	1.10	0.0049	
I030111		3.75	0.007	0.038	0.623	33.3	0.036	4.89	32.5	1.01	0.0016	
I030112		0.943	0.007	0.084	0.146	101.0	0.142	9.69	28.2	2.08	0.0044	
I030113		2.16	0.005	0.501	0.757	168.5	0.055	1.885	59.9	2.08	0.0119	
I030114		8.48	0.004	0.044	2.04	28.3	0.027	14.25	61.0	1.78	0.0276	
I030115		2.03	0.001	0.536	1.950	69.4	0.069	21.3	224	2.69	0.0042	
I030116		7.78	0.005	0.045	0.874	42.7	0.032	9.09	44.3	1.18	0.0198	
I030117		0.852	0.002	0.060	0.311	94.3	0.067	13.65	63.7	1.57	0.0016	
I030118		2.52	0.004	0.193	0.732	55.0	0.035	5.25	165.5	2.20	0.0016	
I030119		0.892	0.003	0.079	0.284	97.1	0.132	20.7	68.9	1.32	0.0005	
I030120		1.415	0.013	0.061	0.659	39.5	0.090	6.66	47.0	1.43	0.0009	
I030121		1.340	0.001	1.155	0.629	87.1	0.256	12.35	55.2	0.63	>0.1000	0.83
I030122		2.29	0.038	0.063	0.604	81.5	0.103	5.91	45.0	2.71	0.0135	
I030123		2.52	0.035	0.151	0.516	88.2	0.174	15.00	56.2	2.70	0.0045	



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CERTIFICATE COMMENTS	
	ANALYTICAL COMMENTS
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 Kamloops located at 2953 Shuswap Drive, Kamloops, BC, Canada. LOG-22 SCR-41 WEI-21
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada. Au-AROR43 Au-ST43 ME-MS41L