ALS Canada Ltd.

2103 Dollarton Hwy
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www.alsglobal.com/geochemistry

To: **NORTH AMERICAN PALLADIUM EXPLORATION**
556 TENTH AVE.
THUNDER BAY ON P7B 2R2

Finalized Date: 10-APR-2018
Account: NAPEHZEU

CERTIFICATE TB18059876

Project: Gfields

P.O. No.: 178845

This report is for 78 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 19-MAR-2018.

The following have access to data associated with this certificate:

DAVID BENSON	LIONNEL DJON	JILL MAXWELL
DAVE PECK	KELSEY PRIVETT	LDIM WEBTRIEVE

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
LOG-21	Sample logging - ClientBarCode
PUL-31	Pulverize split to 85% <75 um
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
LOG-23	Pulp Login - Rcvd with Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP06	Whole Rock Package - ICP-AES	ICP-AES
C-IR07	Total Carbon (Leco)	LECO
S-IR08	Total Sulphur (Leco)	LECO
ME-MS81	Lithium Borate Fusion ICP-MS	ICP-MS
ME-MS42	Up to 34 elements by ICP-MS	ICP-MS
OA-GRA05	Loss on Ignition at 1000C	WST-SEQ
TOT-ICP06	Total Calculation for ICP06	ICP-AES
ME-4ACD81	Base Metals by 4-acid dig.	ICP-AES
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Cu-OG62	Ore Grade Cu - Four Acid	ICP-AES
Ni-OG62	Ore Grade Ni - Four Acid	ICP-AES
PGM-ICP23	Pt, Pd, Au 30g FA ICP	ICP-AES
Se-MS46	Super Trace Se 25g AR by ICP-MS	ICP-MS

To: **NORTH AMERICAN PALLADIUM EXPLORATION**
ATTN: DAVID BENSON
556 TENTH AVE.
THUNDER BAY ON P7B 2R2

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 TB18059876

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	ME-ICP06 SiO2 % 0.01	ME-ICP06 Al2O3 % 0.01	ME-ICP06 Fe2O3 % 0.01	ME-ICP06 CaO % 0.01	ME-ICP06 MgO % 0.01	ME-ICP06 Na2O % 0.01	ME-ICP06 K2O % 0.01	ME-ICP06 Cr2O3 % 0.01	ME-ICP06 TiO2 % 0.01	ME-ICP06 MnO % 0.01	ME-ICP06 P2O5 % 0.01	ME-ICP06 SrO % 0.01	ME-ICP06 BaO % 0.01	OA-GRA05 LOI % 0.01
W871098		0.08	63.1	16.60	6.12	6.25	2.74	3.35	1.47	<0.01	0.49	0.12	0.15	0.05	0.07	0.98
W871099		0.08	33.7	10.50	26.2	5.20	7.04	1.67	0.37	0.05	0.88	0.14	0.12	0.02	0.01	6.89
W871100		2.62	46.3	9.40	13.05	7.28	21.0	0.56	0.10	0.20	0.40	0.20	0.04	<0.01	<0.01	3.37
W871101		2.48	44.8	9.57	12.95	7.33	20.0	0.56	0.08	0.19	0.43	0.20	0.04	<0.01	<0.01	3.50
W871102		2.54	45.6	10.35	12.90	8.65	18.45	0.75	0.17	0.19	0.45	0.20	0.05	<0.01	0.01	2.82
W871103		2.54	43.0	9.92	12.25	8.12	17.45	0.74	0.20	0.17	0.42	0.20	0.04	<0.01	0.01	2.93
W871104		2.54	47.5	11.45	12.60	9.50	14.55	1.09	0.82	0.14	0.50	0.23	0.05	0.01	0.03	2.12
W871105		2.69	45.0	10.60	11.70	10.30	13.90	1.01	0.52	0.14	0.47	0.21	0.04	0.01	0.02	1.88
W871106		2.65	47.6	10.90	12.35	9.73	15.65	1.08	0.56	0.15	0.48	0.23	0.06	<0.01	0.02	1.78
W871107		2.52	43.0	9.41	12.00	8.90	16.75	0.84	0.12	0.18	0.39	0.20	0.04	<0.01	<0.01	2.55
W871108		2.42	47.1	12.25	12.50	9.38	12.30	2.00	0.38	0.11	0.63	0.21	0.05	0.01	0.01	1.62
W871109		2.57	47.2	14.55	16.60	10.45	6.80	2.71	0.53	0.03	1.58	0.27	0.13	0.01	0.01	0.94
W871110		2.61	46.3	14.15	16.30	10.45	6.49	2.61	0.52	0.03	1.54	0.25	0.13	0.01	0.01	0.88
W871111		2.67	46.7	13.85	15.25	10.75	7.02	2.45	0.47	0.06	1.33	0.24	0.11	0.01	0.01	0.95
W871112		2.51	47.0	13.05	15.85	11.20	7.17	2.36	0.52	0.08	1.54	0.24	0.13	0.01	0.01	1.16
W871113		2.75	46.2	12.95	20.2	9.52	5.52	2.08	0.51	0.01	2.38	0.28	0.21	<0.01	0.01	0.54
W871114		2.74	45.9	12.70	18.40	9.96	6.19	2.49	0.34	0.03	1.95	0.28	0.19	0.01	0.01	0.44
W871115		2.50	45.8	11.15	11.70	11.70	12.95	1.67	0.25	0.22	0.40	0.20	0.04	0.01	0.01	1.57
W871116		2.59	48.4	13.00	10.90	14.10	8.76	1.94	0.63	0.17	0.47	0.24	0.04	0.02	0.02	1.60
W871117		2.52	48.0	12.15	11.35	10.35	11.05	2.36	0.44	0.16	0.45	0.22	0.05	0.01	0.02	1.42
W871118		0.07	47.8	13.10	21.1	6.53	6.93	2.28	0.63	0.03	1.25	0.20	0.16	0.03	0.02	1.16
W871119		2.77	47.0	11.60	12.00	8.52	14.25	1.53	0.49	0.18	0.46	0.21	0.03	<0.01	0.01	1.74
W871120		1.91	48.1	10.55	12.65	8.98	16.65	1.21	0.21	0.22	0.42	0.22	0.04	<0.01	0.01	2.09
W871121		1.91	46.5	11.70	13.40	7.70	15.95	1.07	0.40	0.14	0.68	0.23	0.07	<0.01	0.01	3.22
W871122		1.66	67.3	14.60	2.53	3.03	0.91	4.20	1.58	<0.01	0.25	0.03	0.06	0.01	0.02	1.16
W871123		2.44	55.7	14.75	8.88	6.90	7.00	2.54	1.26	0.04	0.71	0.19	0.07	0.02	0.03	1.96
W871124		1.00	68.8	15.15	3.79	4.68	1.73	3.20	1.74	0.01	0.32	0.06	0.07	0.01	0.03	1.23
W871125		1.73	50.3	13.95	12.65	10.65	6.68	2.49	0.88	0.04	0.87	0.25	0.09	0.01	0.02	1.59
W871126		1.30	70.0	13.30	3.68	3.34	1.73	3.37	1.82	0.02	0.25	0.06	0.04	0.01	0.02	1.14
W871127		2.80	49.5	14.40	12.65	8.66	7.62	3.01	0.75	0.03	0.97	0.22	0.09	0.02	0.02	1.38
W871128		2.94	53.4	14.60	9.81	8.62	4.43	3.78	0.78	0.05	0.74	0.19	0.07	0.01	0.02	1.51
W871129		1.65	71.8	14.85	2.19	2.99	0.95	5.06	0.98	<0.01	0.25	0.03	0.05	0.01	0.01	1.42
W871130		2.47	73.4	15.05	2.08	2.68	0.95	4.94	1.16	<0.01	0.25	0.03	0.07	0.01	0.02	1.33
W871131		2.42	66.5	14.50	4.00	4.70	2.17	3.95	0.98	0.01	0.37	0.07	0.07	0.01	0.02	1.52
W871132		2.38	72.2	15.10	2.64	3.03	1.33	4.00	1.36	<0.01	0.27	0.04	0.08	0.01	0.02	1.34
W871133		2.68	48.5	14.90	14.05	8.83	6.47	2.03	1.36	0.02	1.12	0.24	0.08	0.02	0.02	2.65
W871134		2.49	49.4	13.30	13.95	7.17	8.19	1.84	0.93	0.02	0.89	0.21	0.08	0.01	0.02	2.09
W871135		2.54	48.4	14.10	13.55	8.56	8.06	2.38	0.77	0.02	1.05	0.21	0.10	0.01	0.02	1.48
W871136		2.63	47.9	14.25	14.85	8.47	7.89	2.55	0.48	0.02	1.14	0.23	0.09	0.01	0.01	0.86
W871137		2.50	47.6	14.25	14.80	7.35	8.32	2.70	0.76	0.02	1.15	0.25	0.10	0.01	0.02	1.47

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THUNDER BAY ON P7B 2R2

Finalized Date: 10-APR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18059876

Sample Description	Method / Analyte / Units / LOR	TOT-ICP06 Total % 0.01	C-IR07 C % 0.01	S-IR08 S % 0.01	ME-MS81 Ba ppm 0.5	ME-MS81 Ce ppm 0.1	ME-MS81 Cr ppm 10	ME-MS81 Cs ppm 0.01	ME-MS81 Dy ppm 0.05	ME-MS81 Er ppm 0.03	ME-MS81 Eu ppm 0.03	ME-MS81 Ga ppm 0.1	ME-MS81 Gd ppm 0.05	ME-MS81 Ge ppm 5	ME-MS81 Hf ppm 0.2	ME-MS81 Ho ppm 0.01
W871098		101.49	0.03	0.01	580	28.5	20	0.64	3.83	2.50	0.91	16.7	4.10	<5	3.4	0.80
W871099		92.79	0.08	9.14	112.5	15.8	340	0.76	1.81	0.95	0.87	12.6	2.16	<5	1.5	0.37
W871100		101.90	0.02	0.02	19.9	4.3	1360	0.54	1.57	0.91	0.26	9.6	1.19	<5	0.7	0.35
W871101		99.65	0.01	0.02	19.6	4.6	1370	0.39	1.90	1.24	0.31	10.1	1.27	<5	0.7	0.41
W871102		100.59	0.02	0.02	45.6	5.0	1340	0.35	1.88	1.26	0.43	10.3	1.46	<5	0.9	0.41
W871103		95.45	0.01	0.01	52.0	4.0	1180	0.35	1.78	1.21	0.31	9.2	1.37	<5	0.8	0.36
W871104		100.59	0.01	<0.01	253	5.1	1000	1.36	2.04	1.60	0.39	11.2	1.75	<5	0.9	0.49
W871105		95.80	0.04	<0.01	187.0	6.2	1040	1.46	2.26	1.28	0.39	10.8	1.51	<5	0.9	0.47
W871106		100.59	0.01	<0.01	193.0	4.6	1030	0.86	1.82	1.28	0.32	10.7	1.43	<5	0.9	0.43
W871107		94.38	0.02	0.02	28.3	4.1	1260	0.34	1.71	1.21	0.28	9.3	1.20	<5	0.7	0.38
W871108		98.55	0.02	0.02	122.5	6.8	870	0.91	2.77	1.85	0.53	13.4	2.12	<5	1.2	0.55
W871109		101.81	0.02	0.09	99.6	11.5	180	1.51	4.31	2.74	0.98	17.4	3.69	<5	1.9	0.97
W871110		99.67	0.05	0.09	96.8	11.1	180	1.18	4.33	2.75	0.98	17.4	3.67	<5	2.1	0.92
W871111		99.20	0.03	0.07	110.5	11.2	460	1.12	4.38	2.84	0.92	18.4	3.72	<5	1.9	1.02
W871112		100.32	0.03	0.07	96.5	10.5	540	0.35	4.61	2.97	1.03	16.8	3.87	<5	2.1	0.98
W871113		100.41	0.02	0.14	82.9	14.3	60	0.36	6.16	3.80	1.53	21.0	5.42	<5	2.9	1.40
W871114		98.89	0.03	0.09	71.3	14.7	230	0.27	6.22	3.80	1.32	20.8	5.30	<5	2.8	1.35
W871115		97.67	0.03	0.02	75.1	4.0	1610	0.80	1.75	1.27	0.39	11.8	1.40	<5	0.7	0.41
W871116		100.29	0.04	0.03	171.0	4.1	1130	1.00	1.72	1.30	0.32	11.9	1.46	<5	0.7	0.39
W871117		98.03	0.01	0.02	131.0	3.9	1220	0.42	1.98	1.35	0.38	12.3	1.55	<5	0.9	0.46
W871118		101.22	0.07	1.66	213	25.8	240	1.05	2.59	1.45	1.12	15.9	2.78	<5	2.3	0.53
W871119		98.02	0.01	0.03	126.0	3.1	1300	0.67	1.80	1.22	0.35	11.4	1.39	<5	0.8	0.41
W871120		101.35	0.01	0.01	53.4	3.1	1570	0.36	1.77	1.15	0.35	10.5	1.20	<5	0.6	0.39
W871121		101.07	0.02	0.06	113.5	7.6	970	1.29	2.44	1.55	0.58	12.9	1.89	<5	1.1	0.50
W871122		95.68	0.04	0.01	198.0	22.0	20	0.96	0.74	0.34	0.41	17.3	1.19	<5	3.5	0.13
W871123		100.05	0.03	0.02	272	14.1	250	2.37	2.53	1.56	0.59	16.2	2.36	<5	1.9	0.53
W871124		100.82	0.05	0.02	281	22.4	40	1.42	1.23	0.55	0.62	18.5	1.57	<5	3.6	0.19
W871125		100.47	0.13	0.09	181.0	11.2	260	0.99	3.64	2.26	0.81	16.5	2.95	<5	1.7	0.82
W871126		98.78	0.03	0.03	203	21.3	160	1.04	1.12	0.60	0.42	17.2	1.28	<5	2.7	0.22
W871127		99.32	<0.01	0.10	165.0	9.6	230	2.29	3.60	2.34	0.76	16.0	3.04	<5	1.8	0.79
W871128		98.01	0.08	0.12	146.5	11.9	340	0.53	2.88	1.67	0.77	17.4	2.24	<5	2.0	0.59
W871129		100.59	0.09	0.02	129.5	16.3	20	0.65	0.66	0.31	0.35	18.8	0.96	<5	2.9	0.13
W871130		101.97	0.05	0.01	143.5	16.7	20	0.81	0.73	0.32	0.37	19.0	0.94	<5	2.9	0.10
W871131		98.87	0.06	0.03	160.0	15.2	80	0.70	1.27	0.76	0.40	17.9	1.39	<5	2.7	0.23
W871132		101.42	0.02	0.01	174.0	21.3	20	1.03	0.89	0.32	0.45	17.0	1.21	<5	3.6	0.16
W871133		100.29	0.04	0.70	210	11.4	130	2.45	4.18	2.49	0.75	18.1	3.31	<5	1.8	0.83
W871134		98.10	0.03	0.97	152.5	9.1	140	3.59	3.79	2.36	0.78	16.6	2.86	<5	1.7	0.71
W871135		98.71	0.02	0.36	132.5	13.8	140	0.88	3.94	2.78	0.97	18.8	3.81	<5	1.7	0.91
W871136		98.75	0.01	0.14	111.0	10.8	130	0.46	4.11	2.87	0.98	19.2	3.57	<5	1.8	0.88
W871137		98.80	0.01	0.12	171.0	10.9	120	0.99	4.24	3.04	0.91	19.6	3.81	<5	1.8	0.97

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Sample Description	Method / Analyte / Units / LOR	ME-MS81 La ppm 0.1	ME-MS81 Lu ppm 0.01	ME-MS81 Nb ppm 0.2	ME-MS81 Nd ppm 0.1	ME-MS81 Pr ppm 0.03	ME-MS81 Rb ppm 0.2	ME-MS81 Sm ppm 0.03	ME-MS81 Sn ppm 1	ME-MS81 Sr ppm 0.1	ME-MS81 Ta ppm 0.1	ME-MS81 Tb ppm 0.01	ME-MS81 Th ppm 0.05	ME-MS81 Tm ppm 0.01	ME-MS81 U ppm 0.05	ME-MS81 V ppm 5
W871098		13.6	0.38	3.3	17.2	3.84	26.0	3.83	1	470	0.1	0.66	2.92	0.35	1.35	147
W871099		7.8	0.14	4.8	8.8	2.02	10.3	2.03	2	164.0	0.2	0.32	1.16	0.16	0.42	77
W871100		1.8	0.20	0.9	2.9	0.72	1.8	0.90	1	8.5	0.1	0.25	0.18	0.19	0.08	159
W871101		1.9	0.19	1.3	3.2	0.66	1.2	0.96	1	7.2	0.1	0.26	0.23	0.17	0.48	186
W871102		2.0	0.21	1.3	3.3	0.71	3.4	0.83	<1	13.4	0.1	0.24	0.19	0.18	0.10	189
W871103		1.6	0.18	1.1	3.0	0.61	3.8	1.00	<1	16.9	0.1	0.25	0.17	0.15	0.06	175
W871104		2.1	0.22	1.4	3.8	0.77	22.3	1.35	1	77.7	0.1	0.29	0.22	0.22	0.07	219
W871105		2.6	0.22	1.5	3.9	0.85	13.7	1.32	1	78.7	0.1	0.28	0.21	0.24	0.07	207
W871106		1.9	0.20	1.3	3.2	0.62	14.1	1.02	<1	49.7	0.1	0.26	0.19	0.20	0.05	195
W871107		1.5	0.18	1.1	2.9	0.65	2.1	0.84	<1	18.1	0.1	0.23	0.22	0.17	<0.05	166
W871108		2.6	0.29	1.9	4.7	0.97	9.8	1.74	1	78.8	0.1	0.36	0.22	0.25	0.05	254
W871109		4.2	0.40	3.9	9.1	1.64	13.0	2.84	1	110.0	0.2	0.62	0.25	0.42	0.07	337
W871110		4.0	0.39	3.8	8.9	1.76	12.5	3.12	1	117.0	0.2	0.67	0.32	0.42	0.08	338
W871111		4.0	0.43	3.6	9.1	1.76	12.9	2.66	1	130.0	0.2	0.62	0.23	0.41	0.06	351
W871112		3.7	0.46	4.1	8.6	1.68	11.8	2.88	1	88.8	0.2	0.65	0.25	0.41	0.22	332
W871113		5.0	0.58	6.1	12.2	2.37	13.5	3.97	1	86.7	0.4	0.91	0.16	0.55	0.05	432
W871114		5.2	0.54	5.8	12.3	2.35	7.8	4.36	1	98.8	0.3	0.92	0.34	0.62	0.08	409
W871115		1.6	0.21	1.1	2.9	0.53	5.1	0.76	1	55.2	0.1	0.27	0.14	0.19	0.05	207
W871116		1.5	0.18	1.2	2.8	0.62	14.1	0.79	<1	133.0	0.1	0.25	0.16	0.20	0.05	216
W871117		1.6	0.20	1.1	3.2	0.66	11.5	0.98	<1	95.0	<0.1	0.27	0.14	0.22	0.07	226
W871118		11.7	0.18	7.2	13.7	3.23	15.8	3.07	4	251	0.5	0.42	1.59	0.20	0.50	128
W871119		1.2	0.19	0.9	2.4	0.49	14.4	0.91	<1	55.5	<0.1	0.28	0.12	0.19	<0.05	223
W871120		1.2	0.20	0.8	2.6	0.48	4.9	0.93	<1	26.5	0.1	0.23	0.11	0.18	0.05	200
W871121		3.2	0.28	1.9	5.0	1.06	12.1	1.90	1	42.0	0.1	0.34	0.27	0.24	0.08	224
W871122		11.9	0.05	4.1	8.0	2.30	47.0	1.68	1	107.0	0.4	0.14	2.27	0.05	0.71	27
W871123		6.9	0.22	3.1	7.8	1.77	37.1	1.90	1	131.0	0.2	0.40	1.47	0.22	0.32	190
W871124		12.6	0.07	4.1	9.1	2.52	39.5	2.07	1	124.5	0.4	0.22	2.57	0.08	0.68	53
W871125		5.7	0.36	2.6	7.9	1.58	23.6	2.26	1	126.0	0.2	0.50	0.34	0.35	0.30	288
W871126		10.9	0.08	3.2	7.9	2.24	39.1	1.52	1	101.0	0.4	0.19	2.54	0.10	1.05	51
W871127		3.5	0.35	2.7	7.6	1.54	17.8	2.32	1	120.0	0.2	0.52	0.41	0.34	0.25	297
W871128		5.9	0.26	2.4	7.0	1.53	15.9	1.96	1	128.0	0.1	0.41	0.69	0.27	0.33	231
W871129		8.8	0.03	2.4	6.8	1.77	30.6	1.52	<1	123.5	0.2	0.11	1.58	0.04	0.52	26
W871130		8.7	0.03	2.5	6.9	1.87	38.7	1.37	1	119.5	0.2	0.15	1.58	0.03	0.62	24
W871131		7.8	0.08	3.1	6.7	1.77	26.1	1.40	1	128.5	0.3	0.21	1.58	0.12	0.73	75
W871132		11.6	0.05	4.1	8.2	2.22	41.1	1.64	1	133.0	0.3	0.14	2.46	0.05	0.57	26
W871133		4.8	0.37	2.9	8.2	1.63	34.3	2.35	1	130.0	0.2	0.58	0.40	0.42	0.11	335
W871134		3.4	0.40	2.7	6.9	1.34	28.1	2.28	1	115.5	0.2	0.55	0.30	0.39	0.10	292
W871135		5.4	0.40	5.3	10.1	2.07	20.8	2.55	1	141.5	0.2	0.65	0.53	0.43	0.14	338
W871136		4.1	0.42	3.4	8.6	1.75	11.3	2.68	1	142.0	0.2	0.68	0.29	0.42	0.06	366
W871137		4.0	0.42	3.6	8.7	1.72	19.3	2.52	1	145.0	0.2	0.72	0.39	0.42	0.10	360

***** See Appendix Page for comments regarding this certificate *****

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To: **NORTH AMERICAN PALLADIUM EXPLORATION**
556 TENTH AVE.
THUNDER BAY ON P7B 2R2

Finalized Date: 10-APR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18059876

Sample Description	Method	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-4ACD81	ME-4ACD81
	Analyte	W	Y	Yb	Zr	As	Bi	Hg	In	Re	Sb	Se	Te	Tl	Ag	Cd
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	1	0.1	0.03	2	0.1	0.01	0.005	0.005	0.001	0.05	0.2	0.01	0.02	0.5	0.5
W871098		6	22.0	2.20	122	0.9	0.04	<0.005	0.010	0.001	0.14	<0.2	0.01	0.05	<0.5	<0.5
W871099		7	9.0	0.91	66	13.3	0.86	0.130	0.113	0.024	2.37	22.0	4.27	0.18	3.8	3.0
W871100		11	9.2	1.17	25	2.0	0.03	<0.005	<0.005	0.001	<0.05	<0.2	0.01	<0.02	<0.5	0.5
W871101		2	10.6	1.19	29	0.5	0.02	<0.005	0.006	<0.001	<0.05	<0.2	0.01	<0.02	<0.5	0.5
W871102		1	11.1	1.16	31	0.3	0.01	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	<0.02	<0.5	<0.5
W871103		1	9.9	1.03	27	0.4	0.01	<0.005	0.006	<0.001	<0.05	<0.2	<0.01	<0.02	<0.5	<0.5
W871104		1	12.5	1.40	32	0.2	0.01	<0.005	0.006	0.001	<0.05	0.3	0.01	<0.02	<0.5	0.5
W871105		1	13.3	1.39	33	0.5	0.01	0.006	<0.005	0.001	<0.05	0.3	0.01	<0.02	<0.5	0.7
W871106		1	11.1	1.31	31	0.2	0.01	0.005	<0.005	0.003	<0.05	0.2	0.01	<0.02	<0.5	0.7
W871107		1	9.7	1.08	28	0.2	0.02	<0.005	0.005	0.002	<0.05	0.2	0.02	<0.02	<0.5	<0.5
W871108		1	15.6	1.76	45	0.4	0.02	<0.005	0.005	0.001	<0.05	0.3	0.01	<0.02	<0.5	<0.5
W871109		5	24.6	2.57	72	0.5	0.04	<0.005	0.016	0.001	<0.05	0.3	0.01	<0.02	<0.5	0.7
W871110		1	24.2	2.57	72	0.3	0.03	<0.005	0.013	0.001	<0.05	0.2	0.02	<0.02	<0.5	0.7
W871111		1	25.1	2.76	71	0.4	0.03	0.008	0.013	0.002	<0.05	0.3	0.02	<0.02	<0.5	0.7
W871112		2	25.7	2.78	79	0.2	0.03	0.010	0.014	0.002	<0.05	0.3	0.01	<0.02	<0.5	<0.5
W871113		2	34.0	3.72	112	0.4	0.05	<0.005	0.023	0.001	<0.05	0.5	0.02	<0.02	<0.5	0.7
W871114		1	34.4	3.76	108	0.4	0.02	0.007	0.016	0.002	<0.05	0.6	0.01	<0.02	<0.5	0.9
W871115		1	11.0	1.26	26	0.3	0.02	<0.005	0.007	<0.001	<0.05	0.3	0.02	<0.02	<0.5	0.7
W871116		1	11.2	1.27	26	0.6	0.03	<0.005	0.008	<0.001	<0.05	0.4	0.01	<0.02	<0.5	0.6
W871117		1	12.1	1.30	29	0.6	0.02	<0.005	0.007	<0.001	<0.05	0.4	0.03	<0.02	<0.5	0.5
W871118		7	12.8	1.31	96	4.1	0.93	0.014	0.062	0.004	0.34	5.3	0.77	0.10	1.8	1.3
W871119		7	10.7	1.28	26	0.5	0.01	<0.005	0.006	<0.001	<0.05	0.3	0.02	<0.02	<0.5	0.5
W871120		2	10.3	1.18	23	0.4	0.01	0.006	<0.005	0.002	<0.05	0.2	0.03	<0.02	<0.5	0.6
W871121		3	14.4	1.62	45	0.5	0.04	<0.005	0.007	0.001	<0.05	0.3	0.02	0.02	<0.5	<0.5
W871122		2	3.7	0.29	152	0.3	0.02	0.006	0.006	<0.001	<0.05	<0.2	0.01	0.04	<0.5	<0.5
W871123		1	13.9	1.39	72	0.8	0.04	<0.005	0.007	<0.001	<0.05	0.3	0.01	0.04	<0.5	<0.5
W871124		21	5.8	0.49	136	0.6	0.03	0.005	0.008	<0.001	<0.05	0.2	0.02	0.04	<0.5	<0.5
W871125		2	21.1	2.18	57	0.5	0.07	<0.005	0.015	<0.001	0.06	0.4	0.04	0.02	<0.5	<0.5
W871126		303	6.1	0.58	104	0.4	0.02	<0.005	0.006	<0.001	<0.05	0.2	0.01	0.03	<0.5	<0.5
W871127		9	19.7	2.28	61	0.5	0.05	<0.005	0.013	0.001	<0.05	0.4	0.02	<0.02	<0.5	0.6
W871128		1	15.6	1.68	69	0.5	0.07	<0.005	0.019	0.001	0.05	0.5	0.03	<0.02	<0.5	<0.5
W871129		3	3.3	0.22	115	0.6	0.01	0.005	0.005	<0.001	<0.05	0.2	0.01	0.02	<0.5	<0.5
W871130		2	3.2	0.21	115	0.3	0.01	<0.005	<0.005	<0.001	<0.05	<0.2	0.01	0.02	<0.5	<0.5
W871131		9	6.7	0.68	106	0.4	0.04	0.006	0.006	0.001	<0.05	0.2	0.01	0.02	<0.5	<0.5
W871132		2	3.9	0.36	139	0.3	0.01	<0.005	0.005	<0.001	<0.05	0.3	0.01	0.03	<0.5	<0.5
W871133		2	21.8	2.46	66	1.9	0.17	<0.005	0.016	0.001	0.08	0.8	0.04	0.11	<0.5	<0.5
W871134		7	21.5	2.36	62	0.5	0.06	<0.005	0.009	0.001	<0.05	0.8	0.02	0.20	<0.5	<0.5
W871135		8	24.1	2.41	64	0.5	0.05	0.006	0.011	0.001	<0.05	0.5	0.01	0.04	<0.5	<0.5
W871136		9	24.8	2.68	66	0.3	0.02	0.006	0.014	0.001	<0.05	0.6	0.01	<0.02	<0.5	<0.5
W871137		12	24.9	2.69	67	0.4	0.03	<0.005	0.014	0.001	0.05	0.6	0.02	0.02	<0.5	<0.5

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To: **NORTH AMERICAN PALLADIUM EXPLORATION**
556 TENTH AVE.
THUNDER BAY ON P7B 2R2

Finalized Date: 10-APR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18059876

Sample Description	Method	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	Cu-OG62	Ni-OG62	PGM-ICP23	PGM-ICP23	PGM-ICP23	Se-MS46
	Analyte	Co	Cu	Li	Mo	Ni	Pb	Sc	Zn	Cu	Ni	Au	Pt	Pd	Se
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm
	LOR	1	1	10	1	1	2	1	2	0.001	0.001	0.001	0.005	0.001	0.003
W871098		13	95	10	1	7	8	17	62			0.005	<0.005	0.002	0.028
W871099		935	>10000	10	2	>10000	16	8	136	1.660	4.54	0.321	0.814	3.51	15.50
W871100		85	59	10	4	505	<2	20	54			0.005	<0.005	0.005	0.090
W871101		85	100	10	<1	469	<2	21	51			0.005	<0.005	0.005	0.149
W871102		77	30	20	<1	456	<2	25	48			0.003	0.006	0.005	0.048
W871103		78	27	20	<1	441	<2	21	60			0.003	0.005	0.006	0.052
W871104		65	6	50	<1	341	<2	28	78			0.004	0.006	0.006	0.017
W871105		69	12	40	<1	348	<2	28	74			0.002	0.005	0.007	0.029
W871106		71	8	40	2	354	<2	30	75			0.002	0.006	0.006	0.020
W871107		76	37	20	<1	435	<2	27	66			0.003	<0.005	0.005	0.087
W871108		63	47	20	<1	255	<2	28	80			0.004	0.006	0.006	0.081
W871109		49	127	20	<1	95	<2	38	101			0.005	<0.005	0.002	0.246
W871110		53	89	20	<1	93	<2	39	103			0.003	<0.005	0.002	0.266
W871111		54	78	20	<1	137	<2	40	100			0.005	<0.005	0.003	0.217
W871112		53	94	20	<1	138	<2	42	108			0.003	<0.005	0.004	0.183
W871113		51	79	20	<1	43	3	42	121			0.002	<0.005	0.001	0.288
W871114		53	83	10	<1	92	4	42	136			0.003	<0.005	0.004	0.219
W871115		71	13	20	<1	453	<2	31	76			0.003	0.005	0.007	0.063
W871116		64	53	30	<1	277	<2	39	71			0.003	0.005	0.007	0.143
W871117		62	89	20	<1	295	<2	34	75			0.003	0.008	0.008	0.106
W871118		109	4420	20	4	4220	21	11	100			0.064	0.303	0.601	3.97
W871119		61	63	30	<1	345	2	31	89			0.003	0.011	0.010	0.118
W871120		70	39	30	<1	438	<2	28	87			0.003	0.011	0.010	0.086
W871121		71	73	30	<1	321	<2	21	68			0.004	<0.005	0.005	0.161
W871122		5	5	30	<1	9	4	3	15			0.002	<0.005	<0.001	0.008
W871123		36	52	40	1	98	2	26	67			0.003	<0.005	0.003	0.042
W871124		11	31	30	<1	18	3	6	33			0.003	<0.005	0.001	0.030
W871125		45	163	20	<1	110	<2	35	65			0.007	<0.005	0.001	0.203
W871126		13	40	30	1	40	3	7	36			0.002	<0.005	0.002	0.053
W871127		46	102	30	<1	100	<2	38	270			0.004	<0.005	0.001	0.248
W871128		38	284	20	1	113	<2	30	59			0.009	<0.005	0.001	0.237
W871129		8	25	20	<1	7	<2	3	14			<0.001	<0.005	<0.001	0.013
W871130		6	5	30	1	5	<2	3	12			<0.001	<0.005	<0.001	0.007
W871131		12	23	30	1	30	3	10	275			<0.001	<0.005	<0.001	0.062
W871132		6	2	30	<1	9	<2	3	14			<0.001	<0.005	<0.001	0.009
W871133		51	196	60	<1	89	4	42	168			<0.001	<0.005	<0.001	0.488
W871134		42	219	40	<1	89	<2	38	65			<0.001	<0.005	<0.001	0.425
W871135		46	128	30	<1	87	<2	42	100			<0.001	<0.005	<0.001	0.408
W871136		49	122	20	<1	83	<2	42	96			<0.001	<0.005	<0.001	0.329
W871137		48	123	40	1	81	2	41	91			<0.001	<0.005	<0.001	0.288

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To: **NORTH AMERICAN PALLADIUM EXPLORATION**
556 TENTH AVE.
THUNDER BAY ON P7B 2R2

Finalized Date: 10-APR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18059876

Sample Description	Method	WEI-21	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	OA-GRA05
	Analyte	Recvd Wt.	SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O	Cr2O3	TiO2	MnO	P2O5	SrO	BaO	LOI
	Units	kg	%	%	%	%	%	%	%	%	%	%	%	%	%	%
	LOR	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
W871138		0.09	61.6	16.50	6.00	6.19	2.72	3.37	1.52	<0.01	0.50	0.13	0.14	0.05	0.07	0.99
W871139		1.89	49.1	14.30	14.20	7.90	7.35	2.27	0.92	0.02	1.10	0.26	0.08	0.01	0.02	1.67
W871140		2.57	66.9	11.60	6.64	3.60	4.91	2.12	1.03	0.06	0.32	0.13	0.08	0.01	0.02	2.12
W871141		2.40	68.8	13.75	6.25	1.84	1.67	3.98	1.38	<0.01	0.42	0.08	0.10	0.01	0.03	2.20
W871142		2.49	73.8	13.20	3.44	1.63	0.85	4.26	1.32	<0.01	0.29	0.05	0.09	0.01	0.02	1.44
W871143		2.65	68.6	16.20	3.25	2.07	1.21	4.58	1.89	0.01	0.61	0.07	0.11	0.02	0.04	1.49
W871144		2.28	72.4	13.70	3.97	1.89	1.05	4.07	1.53	<0.01	0.28	0.07	0.10	0.01	0.03	1.60
W871145		2.37	72.8	13.10	4.80	1.74	1.16	3.53	1.55	<0.01	0.28	0.09	0.09	0.01	0.03	1.77
W871146		2.16	74.3	13.55	3.61	2.12	1.08	2.91	1.82	<0.01	0.29	0.07	0.10	0.01	0.04	1.61
W871147		2.44	75.0	13.25	3.18	2.00	0.81	2.33	2.20	<0.01	0.29	0.06	0.09	0.01	0.04	1.58
W871148		2.29	71.1	12.90	5.97	1.92	1.29	1.10	2.59	<0.01	0.28	0.06	0.10	<0.01	0.04	2.89
W871149		2.45	63.8	11.15	12.25	2.25	1.48	0.78	2.33	<0.01	0.24	0.09	0.08	0.01	0.04	5.78
W871150		2.25	70.5	12.50	6.32	2.57	1.53	1.02	2.51	<0.01	0.27	0.07	0.10	0.01	0.05	3.08
W871151		2.49	65.5	11.45	10.95	2.15	1.23	1.18	2.11	<0.01	0.27	0.07	0.08	0.01	0.04	5.19
W871152		1.86	56.2	12.40	13.45	6.01	3.74	1.26	1.22	0.01	0.71	0.20	0.08	0.01	0.03	4.27
W871153		2.16	68.9	12.50	7.27	2.69	1.76	1.64	1.86	<0.01	0.27	0.15	0.08	0.01	0.04	3.42
W871154		2.33	4.08	0.75	28.8	2.47	1.01	0.03	0.06	<0.01	0.03	0.05	0.01	<0.01	<0.01	29.2
W871155		2.01	52.3	10.15	20.5	1.03	1.08	0.59	1.94	<0.01	0.25	0.31	0.05	0.01	0.02	10.65
W871156		3.22	11.45	1.97	25.5	1.04	0.61	0.10	0.21	<0.01	0.09	0.06	0.01	<0.01	<0.01	27.6
W871157		2.83	16.60	3.79	24.5	1.35	0.77	0.39	0.44	<0.01	0.19	0.06	0.03	<0.01	0.01	25.2
W871158		0.08	42.0	9.10	15.25	15.55	10.80	0.61	0.23	0.11	0.69	0.14	0.12	<0.01	0.03	3.97
W871159		2.60	9.01	1.31	39.5	1.80	0.80	0.07	0.08	<0.01	0.06	0.07	0.02	<0.01	<0.01	27.8
W871160		2.06	43.6	13.10	16.40	12.00	6.75	0.94	1.09	0.04	0.63	0.32	0.05	0.01	0.02	4.44
W871161		2.02	47.5	14.25	13.80	12.10	6.26	1.19	1.21	0.04	0.74	0.37	0.04	0.02	0.03	1.87
W871162		3.02	61.0	15.35	7.11	5.54	3.65	3.90	1.62	0.02	0.56	0.12	0.21	0.07	0.07	1.43
W871163		2.28	59.2	15.05	6.38	5.80	3.71	4.15	1.67	0.02	0.58	0.11	0.22	0.06	0.07	1.44
W871164		1.96	60.7	15.45	6.71	5.46	3.85	3.89	1.63	0.02	0.59	0.11	0.22	0.07	0.07	1.27
W871165		2.83	49.2	14.80	12.60	7.30	7.02	2.33	1.04	0.04	0.87	0.25	0.06	0.01	0.03	2.91
W871166		2.59	49.9	15.45	12.70	9.61	6.24	2.08	0.99	0.04	0.96	0.23	0.08	0.02	0.03	1.46
W871167		2.58	52.0	15.55	11.65	9.31	5.73	3.92	0.60	0.04	0.92	0.26	0.08	0.02	0.02	0.82
W871168		2.49	49.3	15.35	13.05	9.43	6.46	2.85	0.61	0.03	1.01	0.24	0.08	0.02	0.01	1.37
W871169		2.50	47.6	14.40	12.90	9.86	7.41	2.46	0.89	0.03	0.94	0.24	0.06	0.01	0.02	1.29
W871170		2.57	48.7	14.35	13.80	11.00	6.65	1.87	0.86	0.03	1.00	0.23	0.08	0.01	0.02	1.51
W871171		2.72	48.8	13.95	14.00	9.80	7.31	1.94	0.84	0.03	1.01	0.22	0.07	0.01	0.02	1.78
W871172		2.45	47.6	13.75	14.15	10.20	7.60	1.82	0.67	0.03	0.99	0.24	0.07	0.01	0.01	2.25
W871173		2.12	49.0	14.55	12.95	9.07	6.53	2.26	0.98	0.03	1.04	0.21	0.08	0.01	0.02	2.84
W871174		3.10	48.3	14.10	13.10	9.07	7.32	2.31	0.87	0.03	1.03	0.23	0.08	0.01	0.02	2.52
W871175		0.07	46.8	12.35	20.7	6.08	6.49	2.17	0.62	0.03	1.24	0.19	0.14	0.02	0.02	1.25

***** See Appendix Page for comments regarding this certificate *****

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To: **NORTH AMERICAN PALLADIUM EXPLORATION**
556 TENTH AVE.
THUNDER BAY ON P7B 2R2

Finalized Date: 10-APR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18059876

Sample Description	Method / Analyte / Units / LOR	TOT-ICP06 Total % 0.01	C-IR07 C % 0.01	S-IR08 S % 0.01	ME-MS81 Ba ppm 0.5	ME-MS81 Ce ppm 0.1	ME-MS81 Cr ppm 10	ME-MS81 Cs ppm 0.01	ME-MS81 Dy ppm 0.05	ME-MS81 Er ppm 0.03	ME-MS81 Eu ppm 0.03	ME-MS81 Ga ppm 0.1	ME-MS81 Gd ppm 0.05	ME-MS81 Ge ppm 5	ME-MS81 Hf ppm 0.2	ME-MS81 Ho ppm 0.01
W871138		99.78	0.03	0.01	594	30.5	10	0.71	3.97	2.63	0.97	17.7	4.12	<5	4.4	0.86
W871139		99.20	0.02	0.19	210	10.6	160	1.62	4.19	2.79	0.92	20.2	3.39	<5	2.0	0.96
W871140		99.54	0.03	0.43	202	33.8	400	3.12	1.26	0.71	0.64	15.2	1.64	<5	2.4	0.25
W871141		100.51	0.02	1.28	243	49.9	30	1.70	1.28	0.59	0.64	19.1	1.72	<5	3.4	0.25
W871142		100.40	0.02	0.69	206	53.2	20	0.78	0.98	0.48	0.61	18.6	1.53	<5	3.4	0.18
W871143		100.15	0.02	0.22	346	49.2	110	1.17	1.54	0.74	0.73	23.4	1.87	<5	3.3	0.26
W871144		100.70	0.05	0.75	283	46.4	10	1.17	1.13	0.52	0.62	18.9	1.56	<5	3.3	0.20
W871145		100.95	0.02	1.05	228	44.4	20	1.69	1.05	0.62	0.63	18.1	1.45	<5	3.2	0.18
W871146		101.51	0.02	0.54	322	49.2	20	1.76	1.05	0.47	0.64	19.2	1.63	<5	3.4	0.22
W871147		100.84	0.02	0.31	370	50.4	20	1.24	0.90	0.54	0.58	18.9	1.44	<5	3.1	0.16
W871148		100.24	0.03	1.92	321	50.3	20	2.68	0.87	0.53	0.65	18.4	1.58	<5	3.3	0.17
W871149		100.28	0.03	6.90	342	44.1	20	2.74	1.00	0.54	0.56	15.8	1.52	<5	3.0	0.19
W871150		100.53	0.02	2.20	431	45.9	20	2.60	0.97	0.51	0.54	18.5	1.56	<5	3.2	0.18
W871151		100.23	0.02	6.49	317	45.8	30	2.05	1.07	0.48	0.54	16.9	1.69	<5	3.2	0.20
W871152		99.59	0.04	4.59	246	20.6	90	1.54	2.61	1.79	0.63	17.2	2.56	<5	2.3	0.57
W871153		100.59	0.04	3.11	381	47.0	20	1.81	0.97	0.62	0.69	18.3	1.63	<5	3.3	0.19
W871154		66.49	0.35	47.5	6.6	2.9	10	0.12	0.35	0.30	0.08	1.4	0.40	<5	0.2	0.09
W871155		98.88	0.02	15.50	195.5	35.7	30	2.23	0.69	0.44	0.42	14.3	1.19	<5	2.6	0.16
W871156		68.64	0.07	44.9	40.0	5.9	20	0.68	0.39	0.33	0.16	2.8	0.56	<5	0.5	0.10
W871157		73.33	0.02	40.6	104.0	9.6	20	1.12	0.98	0.65	0.25	5.2	0.99	<5	1.2	0.20
W871158		98.60	0.24	2.65	297	20.7	790	0.46	2.55	1.59	0.80	11.9	2.86	<5	2.0	0.57
W871159		80.52	0.07	45.4	13.3	4.3	10	0.37	0.32	0.24	0.10	2.1	0.41	<5	0.4	0.07
W871160		99.39	0.33	4.29	210	5.8	300	1.73	2.36	1.72	0.53	15.1	2.22	<5	1.0	0.51
W871161		99.42	0.05	0.73	309	6.7	310	1.45	2.93	2.08	0.69	16.8	2.76	<5	1.3	0.68
W871162		100.65	0.05	0.51	630	69.8	120	1.63	2.65	1.43	1.57	21.3	4.30	<5	3.8	0.48
W871163		98.46	0.08	0.16	651	72.6	120	1.20	2.64	1.19	1.59	21.7	4.44	<5	3.5	0.53
W871164		100.04	0.05	0.08	634	69.7	130	1.69	2.93	1.35	1.54	21.8	4.56	<5	3.6	0.43
W871165		98.46	0.03	0.99	265	9.2	310	2.02	3.19	2.13	0.75	18.0	3.12	<5	1.5	0.70
W871166		99.79	0.05	0.13	235	8.7	270	1.18	3.75	2.48	0.82	19.4	2.94	<5	1.7	0.79
W871167		100.92	0.03	0.12	181.0	8.6	280	0.22	3.31	2.35	0.85	18.9	3.20	<5	1.6	0.84
W871168		99.81	0.04	0.14	130.0	9.4	230	0.46	3.61	2.54	0.86	20.1	3.30	<5	1.7	0.88
W871169		98.11	0.03	0.12	174.5	12.7	200	0.53	3.47	2.43	0.87	17.3	3.32	<5	1.7	0.85
W871170		100.11	0.08	0.24	168.5	9.5	240	0.81	3.55	2.39	0.82	18.3	3.05	<5	1.7	0.85
W871171		99.78	0.05	0.84	151.5	9.7	230	0.59	3.63	2.68	0.91	17.3	3.11	<5	1.7	0.84
W871172		99.39	0.06	0.63	129.5	9.5	230	0.57	3.46	2.40	0.85	18.1	3.14	<5	1.6	0.82
W871173		99.57	0.04	1.95	188.5	9.4	210	0.80	3.72	2.42	0.88	18.3	3.23	<5	1.7	0.82
W871174		98.99	0.04	1.63	160.5	9.5	200	0.67	3.72	2.32	0.87	17.9	2.97	<5	1.7	0.83
W871175		98.10	0.08	1.73	209	24.9	220	0.87	2.41	1.29	1.00	15.6	2.45	<5	2.2	0.46

***** See Appendix Page for comments regarding this certificate *****

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To: **NORTH AMERICAN PALLADIUM EXPLORATION**
556 TENTH AVE.
THUNDER BAY ON P7B 2R2

Finalized Date: 10-APR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18059876

Sample Description	Method / Analyte / Units / LOR	ME-MS81 La ppm 0.1	ME-MS81 Lu ppm 0.01	ME-MS81 Nb ppm 0.2	ME-MS81 Nd ppm 0.1	ME-MS81 Pr ppm 0.03	ME-MS81 Rb ppm 0.2	ME-MS81 Sm ppm 0.03	ME-MS81 Sn ppm 1	ME-MS81 Sr ppm 0.1	ME-MS81 Ta ppm 0.1	ME-MS81 Tb ppm 0.01	ME-MS81 Th ppm 0.05	ME-MS81 Tm ppm 0.01	ME-MS81 U ppm 0.05	ME-MS81 V ppm 5
W871138		14.2	0.44	3.5	17.5	4.33	26.7	3.95	1	510	0.2	0.72	3.06	0.38	1.35	152
W871139		4.3	0.41	3.0	8.3	1.60	24.2	2.72	1	147.0	0.2	0.61	0.38	0.40	0.14	341
W871140		19.1	0.09	3.0	13.0	3.57	24.6	1.78	1	124.0	0.2	0.22	3.26	0.10	0.54	85
W871141		27.3	0.11	4.4	18.1	5.58	29.3	2.70	1	155.0	0.4	0.26	4.80	0.10	0.93	69
W871142		29.6	0.07	4.4	18.7	5.85	25.2	2.27	1	140.5	0.4	0.21	5.09	0.06	0.78	34
W871143		27.7	0.08	5.0	18.9	5.72	34.8	2.90	1	165.0	0.4	0.28	4.28	0.10	1.06	132
W871144		25.9	0.09	4.5	16.6	5.12	28.3	2.15	1	141.5	0.4	0.19	5.00	0.08	1.02	34
W871145		23.9	0.07	4.0	15.8	5.23	29.8	2.06	1	136.5	0.3	0.19	4.72	0.06	1.12	31
W871146		27.0	0.07	4.5	17.0	5.45	38.4	2.33	1	124.0	0.4	0.17	4.98	0.06	0.93	32
W871147		28.2	0.05	4.3	17.9	5.50	46.0	2.39	1	133.5	0.3	0.21	5.14	0.04	0.73	33
W871148		28.2	0.07	4.1	17.0	5.46	60.6	2.70	1	84.4	0.4	0.19	5.05	0.07	0.93	31
W871149		24.8	0.06	3.6	15.7	4.81	55.0	2.14	1	102.0	0.3	0.22	4.23	0.06	0.86	30
W871150		26.1	0.06	4.4	16.2	5.04	66.5	2.10	1	104.5	0.4	0.20	4.79	0.06	0.91	31
W871151		26.0	0.06	3.9	16.2	5.05	53.4	2.33	1	127.0	0.4	0.18	4.26	0.09	0.83	36
W871152		10.5	0.22	3.5	9.6	2.62	30.9	2.20	1	135.5	0.3	0.42	1.95	0.23	0.39	197
W871153		26.1	0.07	4.1	16.8	5.33	47.2	2.06	1	168.0	0.4	0.22	4.82	0.07	0.96	31
W871154		1.9	0.03	0.3	1.4	0.35	0.8	0.40	<1	8.0	<0.1	0.07	0.23	0.04	0.24	11
W871155		20.2	0.06	3.3	12.8	3.91	48.7	1.78	<1	58.3	0.3	0.14	3.82	0.06	0.60	49
W871156		3.3	0.03	0.9	2.7	0.74	5.2	0.50	<1	15.0	0.1	0.10	0.51	0.04	0.15	18
W871157		4.7	0.08	1.7	4.7	1.24	11.6	1.05	<1	40.7	0.1	0.15	0.77	0.07	0.29	34
W871158		10.6	0.21	6.4	10.9	2.76	4.9	2.32	2	67.4	0.4	0.46	2.12	0.23	0.94	184
W871159		2.2	0.04	0.5	2.2	0.60	1.8	0.34	<1	12.7	0.1	0.07	0.30	0.03	0.10	14
W871160		2.4	0.23	1.4	4.4	0.99	30.3	1.50	1	122.0	0.1	0.40	0.18	0.26	0.27	235
W871161		2.8	0.29	1.9	6.0	1.07	29.7	1.76	1	167.5	0.1	0.46	0.18	0.28	0.34	278
W871162		33.9	0.18	5.8	33.8	9.03	40.1	5.99	4	623	0.4	0.57	5.92	0.18	1.49	106
W871163		35.8	0.17	5.7	36.2	9.41	37.5	6.01	1	581	0.4	0.55	5.91	0.17	1.79	103
W871164		33.6	0.17	5.6	35.1	9.09	39.8	5.98	1	596	0.4	0.55	5.66	0.21	1.45	119
W871165		3.9	0.30	2.2	7.5	1.40	30.6	2.07	1	125.5	0.1	0.50	0.25	0.32	0.10	311
W871166		3.4	0.33	2.6	7.6	1.42	28.8	2.25	1	154.0	0.2	0.53	0.26	0.36	0.07	326
W871167		3.3	0.35	2.3	7.4	1.43	11.1	2.19	1	212	0.2	0.52	0.24	0.35	0.07	323
W871168		3.8	0.35	2.7	7.6	1.60	17.2	2.13	1	213	0.2	0.61	0.27	0.37	0.08	321
W871169		5.5	0.34	3.2	9.2	1.75	25.8	2.83	1	134.5	0.2	0.58	1.05	0.35	0.05	293
W871170		3.6	0.36	2.8	7.5	1.50	25.9	2.54	1	137.0	0.2	0.58	0.38	0.34	0.07	305
W871171		3.5	0.38	2.8	7.4	1.50	24.5	2.30	1	125.5	0.2	0.57	0.44	0.34	0.07	301
W871172		3.5	0.35	2.7	7.2	1.48	19.9	2.31	1	116.5	0.2	0.60	0.44	0.38	1.04	288
W871173		3.5	0.38	2.8	7.5	1.43	28.5	2.39	1	134.5	0.2	0.58	0.30	0.36	0.25	310
W871174		3.5	0.38	2.8	7.5	1.41	25.5	2.67	1	121.5	0.2	0.55	0.30	0.35	0.10	308
W871175		11.4	0.19	6.9	13.4	3.04	15.3	2.71	3	241	0.4	0.44	1.45	0.16	0.50	115

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To: **NORTH AMERICAN PALLADIUM EXPLORATION**
556 TENTH AVE.
THUNDER BAY ON P7B 2R2

Finalized Date: 10-APR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18059876

Sample Description	Method / Analyte / Units / LOR	ME-MS81 W ppm 1	ME-MS81 Y ppm 0.1	ME-MS81 Yb ppm 0.03	ME-MS81 Zr ppm 2	ME-MS42 As ppm 0.1	ME-MS42 Bi ppm 0.01	ME-MS42 Hg ppm 0.005	ME-MS42 In ppm 0.005	ME-MS42 Re ppm 0.001	ME-MS42 Sb ppm 0.05	ME-MS42 Se ppm 0.2	ME-MS42 Te ppm 0.01	ME-MS42 Tl ppm 0.02	ME-4ACD81 Ag ppm 0.5	ME-4ACD81 Cd ppm 0.5
W871138		6	23.8	2.41	147	1.1	0.04	0.007	0.011	<0.001	0.13	0.4	0.01	0.05	<0.5	<0.5
W871139		3	23.7	2.46	68	0.4	0.04	<0.005	0.014	0.001	0.07	0.4	0.03	0.04	<0.5	<0.5
W871140		3	7.4	0.66	99	0.5	0.06	<0.005	0.009	0.001	<0.05	0.2	0.01	0.24	<0.5	<0.5
W871141		14	6.5	0.62	142	2.3	0.43	<0.005	0.018	0.001	0.06	0.3	0.02	0.14	<0.5	<0.5
W871142		2	5.3	0.43	142	0.9	0.20	<0.005	0.009	<0.001	<0.05	<0.2	0.01	0.07	<0.5	<0.5
W871143		9	7.3	0.64	132	0.7	0.10	<0.005	0.009	0.001	<0.05	<0.2	<0.01	0.08	<0.5	<0.5
W871144		2	5.5	0.49	135	0.8	0.12	<0.005	0.008	0.001	<0.05	<0.2	0.02	0.07	<0.5	<0.5
W871145		3	5.2	0.50	131	0.8	0.09	0.005	0.008	<0.001	0.06	<0.2	0.01	0.11	<0.5	<0.5
W871146		1	5.5	0.47	138	0.7	0.06	<0.005	0.007	0.001	<0.05	0.2	0.04	0.08	<0.5	<0.5
W871147		4	4.8	0.47	134	0.4	0.02	<0.005	<0.005	<0.001	<0.05	0.2	0.02	0.05	<0.5	<0.5
W871148		7	5.4	0.43	141	0.6	0.02	<0.005	0.006	0.001	<0.05	0.2	0.04	0.12	<0.5	<0.5
W871149		4	5.5	0.48	119	3.7	0.07	<0.005	0.005	0.001	0.09	0.7	0.03	0.12	<0.5	<0.5
W871150		4	5.3	0.51	128	3.2	0.15	<0.005	<0.005	0.001	0.05	0.4	0.04	0.11	<0.5	<0.5
W871151		5	5.5	0.51	133	4.9	0.04	0.006	<0.005	0.002	0.15	0.4	0.06	0.22	<0.5	<0.5
W871152		51	15.1	1.58	90	5.8	0.10	0.008	0.012	0.003	0.26	1.0	0.24	0.23	<0.5	<0.5
W871153		1	5.9	0.47	136	6.5	0.11	0.018	0.008	0.001	0.24	<0.2	0.06	0.29	<0.5	0.5
W871154		3	3.1	0.32	6	50.8	0.10	0.013	0.010	0.003	0.60	1.6	0.22	0.10	<0.5	<0.5
W871155		2	4.6	0.49	105	26.1	0.06	<0.005	0.005	0.003	0.49	1.9	0.37	0.40	<0.5	<0.5
W871156		1	2.5	0.31	23	45.4	0.07	0.008	0.010	0.003	0.41	2.9	0.35	0.38	<0.5	<0.5
W871157		3	5.5	0.67	47	50.3	0.09	0.005	<0.005	0.002	0.41	3.3	0.19	0.56	<0.5	<0.5
W871158		5	14.9	1.35	75	42.9	0.32	0.110	0.056	0.017	1.23	11.8	1.37	0.06	2.2	0.8
W871159		14	2.2	0.30	15	40.4	0.12	0.005	0.006	0.003	0.26	2.9	0.30	0.18	<0.5	<0.5
W871160		3	15.1	1.46	37	3.6	0.06	0.007	0.012	0.002	0.23	1.2	0.46	0.29	<0.5	<0.5
W871161		82	18.0	1.90	45	1.5	0.04	0.017	0.015	0.002	0.13	0.7	0.27	0.18	<0.5	<0.5
W871162		1	13.3	1.06	146	1.2	0.02	0.011	0.010	0.001	0.05	0.6	0.01	0.14	<0.5	<0.5
W871163		12	13.8	1.08	140	0.6	0.02	0.005	0.014	<0.001	<0.05	0.3	0.01	0.09	<0.5	<0.5
W871164		2	14.4	1.28	140	0.4	0.02	<0.005	0.011	0.001	<0.05	0.2	0.01	0.12	<0.5	<0.5
W871165		18	19.5	2.18	53	2.0	0.16	0.007	0.025	0.001	0.07	1.1	0.07	0.25	<0.5	<0.5
W871166		2	22.2	2.27	59	0.3	0.03	0.006	0.012	0.002	<0.05	0.3	0.01	0.12	<0.5	<0.5
W871167		14	20.5	2.09	60	0.3	0.03	<0.005	0.010	0.001	<0.05	0.6	0.01	0.05	<0.5	<0.5
W871168		4	22.3	2.28	60	0.4	0.04	<0.005	0.017	0.001	0.05	0.3	0.01	0.05	<0.5	<0.5
W871169		1	21.4	2.10	57	0.3	0.02	<0.005	0.011	0.001	<0.05	0.3	0.01	0.05	<0.5	<0.5
W871170		2	21.0	2.26	59	0.5	0.03	<0.005	0.012	0.001	0.06	0.4	0.02	0.07	<0.5	<0.5
W871171		1	21.7	2.31	60	0.5	0.03	<0.005	0.010	0.001	<0.05	0.8	0.03	0.07	<0.5	<0.5
W871172		1	21.7	2.16	59	1.4	0.08	<0.005	0.012	0.001	0.06	0.6	0.03	0.05	<0.5	<0.5
W871173		1	21.5	2.33	64	1.5	0.08	<0.005	0.010	0.001	0.07	0.9	0.03	0.04	<0.5	<0.5
W871174		2	21.6	2.20	61	1.2	0.05	<0.005	0.009	0.001	0.08	0.8	0.02	0.03	<0.5	<0.5
W871175		5	12.4	1.19	88	4.6	0.95	0.009	0.072	0.007	0.29	5.4	0.59	0.11	1.6	0.5

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.

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www.alsglobal.com/geochemistry

To: **NORTH AMERICAN PALLADIUM EXPLORATION**
556 TENTH AVE.
THUNDER BAY ON P7B 2R2

Finalized Date: 10-APR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18059876

Sample Description	Method / Analyte / Units / LOR	ME-4ACD81 Co ppm 1	ME-4ACD81 Cu ppm 1	ME-4ACD81 Li ppm 10	ME-4ACD81 Mo ppm 1	ME-4ACD81 Ni ppm 1	ME-4ACD81 Pb ppm 2	ME-4ACD81 Sc ppm 1	ME-4ACD81 Zn ppm 2	Cu-OG62 Cu % 0.001	Ni-OG62 Ni % 0.001	PGM-ICP23 Au ppm 0.001	PGM-ICP23 Pt ppm 0.005	PGM-ICP23 Pd ppm 0.001	Se-MS46 Se ppm 0.003
W871138		13	94	10	2	5	4	16	63			0.001	<0.005	<0.001	0.026
W871139		45	132	40	<1	87	<2	40	86			0.003	<0.005	<0.001	0.291
W871140		28	38	40	<1	115	4	12	83			<0.001	<0.005	0.003	0.229
W871141		25	53	50	<1	39	4	7	178			<0.001	<0.005	<0.001	0.206
W871142		10	17	30	<1	18	6	3	121			<0.001	<0.005	<0.001	0.077
W871143		12	16	40	<1	19	4	14	71			<0.001	<0.005	<0.001	0.048
W871144		7	13	30	<1	13	6	4	46			<0.001	<0.005	<0.001	0.064
W871145		9	9	40	<1	12	4	4	41			<0.001	<0.005	0.001	0.065
W871146		5	11	30	<1	10	7	3	59			<0.001	<0.005	<0.001	0.068
W871147		5	19	30	<1	7	5	3	44			<0.001	<0.005	<0.001	0.052
W871148		7	27	40	<1	14	2	3	34			<0.001	<0.005	<0.001	0.165
W871149		20	31	40	1	14	6	3	63			0.001	<0.005	<0.001	0.512
W871150		10	13	50	1	6	3	3	17			<0.001	<0.005	<0.001	0.241
W871151		11	45	30	<1	24	7	3	26			<0.001	<0.005	<0.001	0.398
W871152		24	54	50	1	49	2	24	93			<0.001	<0.005	<0.001	0.588
W871153		5	20	50	<1	12	17	3	151			<0.001	<0.005	<0.001	0.238
W871154		81	94	<10	2	61	2	2	37			0.003	0.005	0.007	0.004
W871155		28	39	30	1	32	12	4	55			0.003	<0.005	0.001	1.635
W871156		64	54	10	3	41	6	2	73			0.001	0.005	0.004	0.005
W871157		45	25	10	3	37	8	4	38			<0.001	0.005	0.005	0.022
W871158		153	5620	40	3	2130	4	25	76			0.093	0.738	0.367	9.93
W871159		45	109	10	4	48	11	2	26			<0.001	<0.005	0.009	0.013
W871160		30	134	30	1	109	9	33	138			<0.001	0.009	0.010	1.025
W871161		46	149	30	1	112	4	37	215			<0.001	<0.005	0.005	0.620
W871162		22	45	30	<1	61	7	11	70			<0.001	<0.005	0.001	0.122
W871163		21	31	30	<1	61	4	10	62			<0.001	<0.005	0.001	0.050
W871164		21	27	30	<1	62	7	12	68			<0.001	<0.005	0.001	0.034
W871165		57	229	60	1	113	13	39	145			0.002	0.006	0.005	0.451
W871166		46	112	30	<1	112	6	38	153			0.004	<0.005	<0.001	0.230
W871167		44	127	20	<1	115	<2	38	126			<0.001	<0.005	<0.001	0.287
W871168		44	146	30	<1	96	3	38	156			<0.001	<0.005	<0.001	0.287
W871169		43	105	30	<1	91	<2	36	128			<0.001	<0.005	<0.001	0.228
W871170		46	187	30	<1	100	<2	38	89			<0.001	<0.005	<0.001	0.322
W871171		43	146	30	<1	96	3	36	93			<0.001	<0.005	<0.001	0.462
W871172		47	160	40	<1	96	<2	35	93			<0.001	<0.005	<0.001	0.482
W871173		50	152	40	<1	91	<2	39	92			<0.001	<0.005	<0.001	0.660
W871174		44	136	40	<1	89	<2	37	92			<0.001	<0.005	<0.001	0.744
W871175		108	4240	20	5	4070	18	11	104			0.085	0.295	0.608	3.80

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To: **NORTH AMERICAN PALLADIUM EXPLORATION**
556 TENTH AVE.
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Finalized Date: 10-APR-2018
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CERTIFICATE OF ANALYSIS TB18059876

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada

Applies to Method:	CRU-31	CRU-QC	LOG-21	LOG-23
	PUL-31	PUL-QC	SPL-21	WEI-21

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:	C-IR07	Cu-OG62	ME-4ACD81	ME-ICP06
	ME-MS42	ME-MS81	ME-OG62	Ni-OG62
	OA-GRA05	PGM-ICP23	Se-MS46	S-IR08
	TOT-ICP06			