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: 6-APR-2018
Account: NAPEHZEU

CERTIFICATE TB18059869

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
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 TB18059869

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
W871176		0.08	63.2	16.90	5.99	6.23	2.73	3.39	1.47	<0.01	0.49	0.12	0.15	0.05	0.07	1.05
W871177		0.08	42.1	9.17	15.00	15.70	10.75	0.64	0.23	0.11	0.68	0.14	0.12	<0.01	0.03	3.91
W871178		2.32	48.9	13.95	12.80	9.56	7.68	2.32	0.84	0.03	0.90	0.23	0.07	0.01	0.02	2.87
W871179		2.52	51.0	15.55	11.15	9.52	5.45	2.46	0.70	0.07	0.89	0.25	0.06	0.01	0.02	1.42
W871180		2.55	50.6	15.70	11.50	10.90	5.36	3.03	0.52	0.04	0.90	0.24	0.06	0.01	0.01	1.02
W871181		2.43	48.7	15.45	11.85	12.05	4.82	2.79	0.78	0.04	0.89	0.24	0.06	0.01	0.01	2.31
W871182		2.42	50.4	15.60	11.20	8.67	5.44	3.78	0.56	0.05	0.89	0.24	0.06	0.01	0.01	1.27
W871183		2.38	50.3	15.20	10.85	13.55	3.36	3.21	0.44	0.04	0.89	0.20	0.06	0.01	0.01	2.29
W871184		2.52	51.0	15.35	11.05	8.64	5.36	3.71	0.53	0.04	0.92	0.23	0.08	0.02	0.01	1.09
W871185		2.33	51.2	15.50	11.70	11.15	5.35	3.22	0.51	0.04	0.90	0.24	0.06	0.02	0.01	1.53
W871186		2.47	51.8	15.85	11.10	9.30	5.30	4.05	0.46	0.04	0.93	0.23	0.08	0.02	0.01	1.04
W871187		2.74	48.6	14.40	12.70	9.51	6.90	2.80	0.52	0.03	0.83	0.24	0.06	0.01	0.01	1.41
W871188		2.82	49.0	14.00	14.15	9.40	8.09	2.54	0.55	0.03	0.80	0.27	0.06	0.01	0.01	1.78
W871189		2.13	48.2	14.05	13.95	10.20	7.76	2.20	0.79	0.03	0.84	0.24	0.06	0.01	0.02	1.58
W871190		2.36	50.4	13.95	14.05	9.59	7.84	2.22	0.91	0.03	0.84	0.24	0.05	0.01	0.02	1.54
W871191		2.46	50.2	13.60	13.00	9.72	8.36	2.36	0.91	0.05	0.90	0.23	0.23	0.03	0.03	1.44
W871192		2.38	48.8	11.15	11.30	11.40	11.60	1.71	0.70	0.13	0.96	0.19	0.45	0.05	0.03	2.05
W871193		1.59	49.2	13.35	12.35	10.45	8.85	2.23	0.83	0.06	0.87	0.20	0.27	0.02	0.02	2.04
W871194		1.73	49.1	13.30	14.40	9.10	6.99	2.17	0.67	0.02	1.02	0.24	0.07	0.02	0.02	1.29
W871195		2.48	57.3	14.30	10.05	8.18	4.42	2.09	1.06	0.02	0.62	0.14	0.07	0.02	0.02	1.64
W871196		0.08	48.7	12.75	21.0	6.25	6.85	2.21	0.63	0.03	1.26	0.20	0.15	0.03	0.02	1.14
W871197		2.12	69.6	15.25	3.04	3.80	1.35	3.54	1.37	<0.01	0.30	0.05	0.08	0.02	0.02	1.13
W871198		2.20	71.3	15.50	3.13	3.94	1.35	3.39	1.46	<0.01	0.31	0.05	0.10	0.01	0.01	1.37
W871199		2.09	71.5	15.45	3.06	4.40	1.27	3.06	1.37	<0.01	0.30	0.05	0.09	0.01	0.02	1.36
W871200		2.03	48.3	13.10	14.55	10.10	7.49	1.76	0.66	0.04	0.91	0.24	0.06	0.01	0.01	1.30
W871201		1.75	49.0	13.45	14.05	9.97	8.44	1.90	0.84	0.03	0.82	0.26	0.05	0.01	0.02	1.40
W871202		2.32	48.8	13.85	13.70	10.15	8.42	2.04	0.77	0.03	0.76	0.23	0.06	0.01	0.02	1.44
W871203		2.38	50.0	13.70	13.45	9.20	8.23	1.95	0.81	0.03	0.77	0.23	0.06	0.01	0.02	1.42
W871204		2.46	49.9	13.60	14.55	9.28	6.84	2.10	0.54	0.02	1.13	0.24	0.08	0.01	0.01	1.22
W871205		2.34	50.5	13.95	13.70	9.34	8.24	2.26	0.77	0.03	0.80	0.25	0.06	0.01	0.02	1.38
W871206		2.44	49.0	13.65	13.55	9.51	7.35	2.05	0.60	0.03	0.79	0.23	0.06	0.01	0.01	1.22
W871207		2.42	51.2	15.45	11.60	12.30	5.33	1.92	0.19	0.04	0.94	0.23	0.06	0.01	<0.01	1.44
W871208		2.97	49.9	15.30	12.15	11.30	5.24	1.89	0.16	0.04	0.92	0.23	0.06	0.01	0.01	2.20
W871209		1.67	46.9	14.05	14.40	10.30	6.15	2.63	0.21	0.04	0.84	0.36	0.06	0.01	0.01	2.10
W871210		2.65	50.6	15.20	12.05	9.43	5.67	2.57	0.60	0.04	0.93	0.34	0.07	0.01	0.02	1.16
W871211		2.74	47.9	15.10	13.90	11.00	6.04	2.37	0.61	0.04	0.87	0.32	0.06	0.01	0.02	2.03
W871212		2.84	46.8	13.95	13.95	9.08	5.35	1.61	0.94	0.04	0.98	0.36	0.09	0.01	0.02	1.73
W871213		2.61	50.6	13.85	13.55	9.60	4.94	2.17	0.58	0.03	1.12	0.31	0.08	0.01	0.02	1.64
W871214		2.21	46.2	14.50	14.25	8.58	6.15	2.13	0.56	0.03	1.11	0.28	0.09	0.01	0.01	2.21
W871215		2.54	52.8	14.95	11.40	9.86	4.72	2.42	0.55	0.04	1.01	0.26	0.07	0.01	0.02	1.40

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Finalized Date: 6-APR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18059869

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
W871176		101.84	0.03	0.02	593	28.5	20	0.61	4.03	2.61	0.85	17.1	3.84	<5	3.4	0.83
W871177		98.58	0.24	2.69	284	19.8	760	0.48	2.69	1.51	0.75	10.8	2.60	<5	1.9	0.51
W871178		100.18	0.05	1.10	136.5	9.7	210	0.99	3.64	2.24	0.80	15.9	2.93	<5	1.4	0.74
W871179		98.55	0.08	0.07	141.5	8.3	490	0.70	3.54	2.38	0.75	18.2	2.86	<5	1.5	0.81
W871180		99.89	0.13	0.14	119.0	8.2	270	0.16	3.49	2.43	0.77	17.7	2.86	<5	1.4	0.78
W871181		100.00	0.51	0.25	128.0	8.4	290	0.57	3.78	2.52	0.80	17.9	2.89	<5	1.5	0.79
W871182		98.18	0.05	0.59	114.5	7.4	320	0.26	3.28	2.30	0.73	17.3	2.62	<5	1.5	0.75
W871183		100.41	0.75	1.07	96.1	8.0	290	0.24	3.51	2.29	0.76	16.8	2.88	<5	1.4	0.79
W871184		98.03	0.05	0.33	104.5	6.8	240	0.34	2.91	2.05	0.68	14.6	2.33	<5	1.3	0.66
W871185		101.43	0.09	0.31	115.0	7.7	260	0.23	3.34	2.39	0.76	15.4	2.64	<5	1.4	0.71
W871186		100.21	0.04	0.16	110.0	8.0	270	0.29	3.40	2.22	0.74	16.7	2.55	<5	1.5	0.75
W871187		98.02	0.03	0.17	114.0	7.1	220	0.31	3.26	2.22	0.70	16.2	2.35	<5	1.3	0.71
W871188		100.69	0.02	0.13	102.0	6.5	190	0.35	3.00	2.13	0.66	16.2	2.49	<5	1.3	0.72
W871189		99.93	0.05	0.14	159.5	6.9	200	0.63	3.44	2.47	0.80	16.9	2.70	<5	1.4	0.78
W871190		101.69	0.04	0.10	193.0	7.4	190	0.65	3.54	2.26	0.71	17.3	3.01	<5	1.4	0.78
W871191		101.06	0.03	0.15	240	51.5	390	0.75	3.96	2.20	1.55	18.1	5.08	<5	2.4	0.85
W871192		100.52	0.07	0.19	231	110.5	990	0.55	5.01	2.03	3.05	17.1	8.78	<5	4.3	0.83
W871193		100.74	0.05	0.19	214	61.8	410	0.61	4.19	2.31	1.92	18.2	5.83	<5	2.9	0.80
W871194		98.41	0.02	0.23	158.5	10.3	170	0.45	3.82	2.63	0.93	18.4	3.26	<5	1.8	0.92
W871195		99.93	0.05	0.28	190.5	16.2	150	0.99	2.25	1.38	0.65	18.6	2.15	<5	2.0	0.49
W871196		101.22	0.09	1.75	209	26.5	240	0.99	2.50	1.39	1.09	16.3	2.74	<5	2.3	0.48
W871197		99.55	0.04	0.01	131.0	30.6	20	1.49	0.79	0.46	0.58	20.4	1.39	<5	2.9	0.15
W871198		101.92	0.12	0.02	128.0	32.6	20	1.73	0.92	0.39	0.57	19.8	1.41	<5	2.8	0.14
W871199		101.94	0.05	0.05	164.0	35.0	10	1.41	1.10	0.53	0.64	20.3	1.41	<5	3.2	0.19
W871200		98.53	0.06	0.23	119.0	11.4	260	0.49	3.64	2.42	0.85	16.6	2.85	<5	1.6	0.86
W871201		100.24	0.02	0.09	183.5	7.7	250	0.54	3.50	2.21	0.76	17.0	2.47	<5	1.5	0.76
W871202		100.28	0.02	0.10	154.5	6.7	220	0.65	3.36	2.13	0.72	15.1	2.54	<5	1.2	0.68
W871203		99.88	0.02	0.10	145.5	6.5	230	0.64	3.32	1.91	0.71	16.6	2.39	<5	1.2	0.70
W871204		99.52	0.04	0.15	105.0	10.8	170	0.40	4.09	2.91	1.04	18.5	3.83	<5	1.9	0.95
W871205		101.31	0.02	0.08	134.5	6.5	220	0.60	3.05	2.10	0.64	15.9	2.66	<5	1.3	0.73
W871206		98.06	0.02	0.15	108.0	6.5	190	0.40	3.31	1.99	0.66	16.1	2.25	<5	1.2	0.69
W871207		100.71	0.11	0.14	41.4	8.4	290	0.20	3.66	2.35	0.79	18.3	3.28	<5	1.6	0.83
W871208		99.41	0.17	0.14	44.7	8.0	280	0.46	3.17	2.30	0.77	19.3	2.65	<5	1.5	0.74
W871209		98.06	0.42	0.61	64.6	8.6	260	0.36	3.46	2.25	0.77	18.0	2.75	<5	1.5	0.73
W871210		98.69	0.06	0.11	150.0	8.6	290	0.50	3.47	2.50	0.85	17.3	2.94	<5	1.5	0.82
W871211		100.27	0.26	0.80	128.0	9.2	240	0.41	3.20	2.28	0.71	16.1	2.63	<5	1.4	0.70
W871212		94.91	0.13	0.37	198.0	10.6	290	1.11	3.93	2.62	0.92	18.3	3.14	<5	1.9	0.86
W871213		98.50	0.23	0.36	139.5	11.3	180	0.76	4.14	2.96	0.93	18.6	3.55	<5	2.1	1.03
W871214		96.11	0.07	0.28	119.0	11.3	190	0.88	4.09	2.76	0.89	18.7	3.36	<5	1.9	0.86
W871215		99.51	0.15	0.17	143.5	9.3	290	0.61	4.00	2.44	0.92	18.2	2.93	<5	1.7	0.86

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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
W871176		12.9	0.41	3.4	17.5	3.86	26.4	4.05	1	482	0.2	0.64	2.95	0.38	1.29	154
W871177		9.5	0.20	6.2	10.6	2.36	4.9	2.67	2	63.1	0.4	0.42	1.83	0.23	0.93	178
W871178		4.6	0.37	2.5	6.9	1.40	25.5	2.33	1	96.3	0.2	0.49	0.28	0.31	0.08	278
W871179		3.3	0.37	2.4	6.8	1.24	19.0	2.17	1	132.0	0.2	0.52	0.26	0.35	0.23	322
W871180		3.1	0.36	2.4	6.7	1.34	12.0	2.24	1	140.5	0.2	0.52	0.21	0.33	0.07	319
W871181		3.2	0.36	2.3	6.8	1.29	16.9	2.27	1	124.5	0.2	0.55	0.22	0.35	0.12	314
W871182		2.8	0.34	2.4	6.1	1.23	13.1	2.17	1	139.0	0.2	0.49	0.22	0.34	0.06	316
W871183		3.0	0.32	2.3	6.5	1.19	10.8	2.14	1	133.0	0.2	0.53	0.24	0.31	0.06	314
W871184		2.5	0.28	2.0	5.6	1.03	10.8	1.94	1	147.0	0.1	0.44	0.18	0.26	0.05	269
W871185		2.9	0.31	2.4	6.0	1.20	10.4	1.80	2	148.0	0.1	0.49	0.20	0.30	0.05	303
W871186		2.9	0.34	2.3	6.3	1.25	10.8	2.30	1	195.0	0.2	0.51	0.22	0.32	0.07	317
W871187		2.7	0.30	2.1	5.8	1.05	13.9	1.98	<1	122.0	0.1	0.45	0.19	0.31	0.06	303
W871188		2.5	0.32	1.9	5.4	1.05	14.0	1.85	1	93.3	0.1	0.47	0.18	0.30	0.05	307
W871189		2.7	0.37	2.1	5.9	1.07	27.5	2.08	<1	123.5	0.1	0.52	0.18	0.33	0.07	354
W871190		2.9	0.30	2.1	5.9	1.16	29.2	1.91	1	138.0	0.1	0.54	0.19	0.33	0.06	341
W871191		21.6	0.26	4.9	28.2	6.52	26.3	5.41	1	271	0.3	0.69	2.15	0.33	0.59	307
W871192		46.4	0.24	8.6	61.7	14.50	14.4	11.60	1	420	0.5	1.06	4.87	0.25	1.07	231
W871193		26.4	0.29	5.3	34.2	8.51	22.2	6.93	2	208	0.3	0.79	2.67	0.29	0.67	287
W871194		4.1	0.38	2.8	7.2	1.56	17.8	2.36	1	135.0	0.2	0.59	0.36	0.36	0.10	353
W871195		7.9	0.23	2.6	7.5	1.95	30.0	1.86	<1	150.5	0.2	0.37	1.50	0.21	0.46	215
W871196		11.9	0.16	6.6	13.5	3.39	16.7	2.88	4	262	0.4	0.43	1.58	0.21	0.55	124
W871197		15.8	0.05	3.5	11.4	3.40	36.0	1.90	1	139.5	0.3	0.16	3.66	0.07	1.13	35
W871198		17.1	0.04	3.5	12.5	3.51	34.9	2.04	<1	141.0	0.4	0.18	3.50	0.06	1.13	36
W871199		18.1	0.06	4.0	13.2	3.62	34.0	2.23	1	150.0	0.4	0.20	4.60	0.07	1.11	34
W871200		4.9	0.36	2.4	7.3	1.59	19.9	2.31	1	115.5	0.1	0.57	0.91	0.34	0.09	360
W871201		3.4	0.30	1.9	5.5	1.18	25.0	1.81	<1	131.0	0.1	0.50	0.28	0.34	0.05	325
W871202		2.5	0.28	1.9	5.3	1.04	24.9	1.79	<1	112.5	0.1	0.48	0.26	0.30	0.07	313
W871203		2.5	0.31	1.8	5.2	1.00	27.2	1.76	<1	119.5	0.1	0.45	0.24	0.27	0.06	329
W871204		4.1	0.39	3.1	8.0	1.70	16.6	2.62	1	121.5	0.2	0.68	0.36	0.42	0.09	377
W871205		2.3	0.33	1.8	5.0	1.00	24.4	1.69	<1	108.5	0.1	0.47	0.19	0.32	0.06	325
W871206		2.5	0.30	1.9	5.0	0.98	17.7	1.48	<1	129.5	0.1	0.46	0.20	0.29	0.05	323
W871207		3.2	0.37	2.4	6.3	1.34	5.6	2.28	<1	86.9	0.1	0.57	0.28	0.38	0.07	352
W871208		3.1	0.34	2.4	6.5	1.26	4.5	1.97	3	71.6	0.2	0.55	0.22	0.39	0.06	343
W871209		3.3	0.35	2.1	6.3	1.33	5.5	2.03	1	108.0	0.1	0.48	0.22	0.37	0.10	314
W871210		3.5	0.31	2.4	6.7	1.32	18.8	2.08	1	136.5	0.2	0.57	0.32	0.39	0.06	343
W871211		3.7	0.29	2.0	6.6	1.47	16.8	1.95	<1	121.0	0.1	0.48	0.22	0.32	0.10	297
W871212		4.1	0.36	3.1	7.7	1.58	29.4	2.70	1	106.0	0.2	0.61	0.45	0.39	0.67	346
W871213		4.5	0.44	3.1	8.5	1.71	17.6	2.67	1	113.5	0.2	0.69	0.43	0.42	0.22	372
W871214		4.5	0.41	2.9	8.5	1.70	14.9	2.59	1	97.5	0.2	0.62	0.39	0.41	0.14	352
W871215		3.3	0.34	2.5	7.1	1.40	16.6	2.50	1	127.0	0.2	0.59	0.30	0.39	0.14	342

***** 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: 6-APR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18059869

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
W871176		5	22.6	2.36	123	1.9	0.05	<0.005	0.010	0.001	0.19	<0.2	<0.01	0.05	<0.5	<0.5
W871177		1	13.8	1.38	76	41.8	0.32	0.092	0.052	0.015	1.28	12.5	1.43	0.06	2.7	1.1
W871178		2	19.6	2.07	53	1.4	0.04	<0.005	0.012	0.001	0.14	0.6	0.02	0.08	<0.5	<0.5
W871179		1	19.6	2.21	53	0.3	0.02	<0.005	0.011	0.001	0.05	0.2	0.01	0.06	<0.5	0.5
W871180		<1	20.2	2.13	53	0.4	0.03	<0.005	0.012	0.001	0.05	0.4	0.02	0.04	<0.5	<0.5
W871181		1	20.9	2.24	52	0.5	0.03	<0.005	0.016	0.001	0.05	0.3	0.02	0.08	<0.5	<0.5
W871182		1	19.1	2.08	52	0.5	0.03	<0.005	0.013	0.002	<0.05	0.7	0.07	0.05	<0.5	0.6
W871183		1	19.1	1.88	52	1.3	0.03	<0.005	0.011	0.002	0.06	0.8	0.35	0.10	<0.5	0.5
W871184		1	16.4	1.81	45	0.5	0.01	<0.005	0.011	0.002	0.05	0.6	0.04	0.08	<0.5	0.5
W871185		1	18.6	2.06	50	0.4	0.01	<0.005	0.008	0.004	<0.05	0.5	0.01	0.04	<0.5	0.7
W871186		1	19.1	2.07	53	0.5	0.02	<0.005	0.010	0.002	<0.05	0.2	0.01	0.05	<0.5	<0.5
W871187		1	18.4	2.00	48	0.4	0.03	<0.005	0.012	0.002	<0.05	0.4	0.03	0.05	<0.5	0.7
W871188		1	18.0	2.12	44	0.3	0.05	<0.005	0.013	0.001	0.05	0.4	0.03	0.04	<0.5	0.5
W871189		1	19.7	2.43	48	0.2	0.04	<0.005	0.011	0.002	<0.05	0.4	0.04	0.05	<0.5	<0.5
W871190		1	19.9	2.28	49	0.2	0.03	<0.005	0.013	0.001	<0.05	0.3	0.02	0.06	<0.5	0.5
W871191		20	21.2	2.08	100	0.5	0.06	<0.005	0.013	0.001	<0.05	0.3	0.02	0.07	<0.5	<0.5
W871192		1	22.1	1.52	167	1.3	0.07	<0.005	0.012	<0.001	0.05	0.2	0.01	0.09	<0.5	0.6
W871193		1	20.7	1.84	109	0.3	0.06	<0.005	0.014	<0.001	0.06	0.7	0.02	0.09	<0.5	0.5
W871194		1	22.3	2.42	62	0.1	0.07	<0.005	0.012	0.001	<0.05	0.5	0.03	0.07	<0.5	<0.5
W871195		2	12.4	1.31	72	0.4	0.07	<0.005	0.014	0.002	0.06	0.7	0.03	0.13	<0.5	0.6
W871196		4	13.2	1.33	98	4.0	0.75	<0.005	0.068	0.006	0.31	5.3	0.49	0.10	1.8	1.1
W871197		1	3.9	0.30	114	0.2	0.02	<0.005	0.009	0.001	<0.05	0.2	0.01	0.10	<0.5	<0.5
W871198		1	4.2	0.32	106	0.1	0.01	<0.005	0.010	0.001	<0.05	<0.2	0.01	0.09	<0.5	<0.5
W871199		1	4.6	0.36	122	0.1	0.02	<0.005	0.007	<0.001	<0.05	0.3	0.01	0.07	<0.5	<0.5
W871200		1	21.2	2.40	53	0.3	0.05	<0.005	0.011	0.002	<0.05	0.6	0.03	0.15	<0.5	0.7
W871201		1	18.5	2.29	46	<0.1	0.05	<0.005	0.010	0.001	0.05	0.2	0.02	0.10	<0.5	0.5
W871202		<1	17.3	1.97	42	0.1	0.03	<0.005	0.009	0.001	<0.05	0.3	0.04	0.10	<0.5	0.7
W871203		1	17.7	2.10	43	0.4	0.02	<0.005	0.009	0.001	<0.05	0.3	0.01	0.07	<0.5	<0.5
W871204		1	23.8	2.78	69	0.4	0.02	<0.005	0.013	0.001	<0.05	0.4	0.02	0.05	<0.5	0.6
W871205		1	18.1	1.95	45	2.2	0.04	<0.005	0.011	0.001	<0.05	0.5	0.02	0.06	<0.5	0.7
W871206		1	17.7	2.03	44	0.4	0.03	<0.005	0.010	0.001	<0.05	0.4	0.03	0.08	<0.5	0.8
W871207		1	20.7	2.22	55	1.4	0.02	<0.005	0.009	0.001	<0.05	0.2	0.03	0.04	<0.5	0.5
W871208		6	18.8	2.21	53	1.3	0.03	<0.005	0.012	0.001	<0.05	<0.2	0.02	0.05	<0.5	0.6
W871209		1	20.1	2.24	50	0.1	0.04	<0.005	0.011	0.002	<0.05	0.7	0.04	0.06	<0.5	<0.5
W871210		1	20.9	2.43	54	0.3	0.03	<0.005	0.008	0.001	<0.05	0.2	0.02	0.05	<0.5	<0.5
W871211		1	19.6	2.25	47	0.2	0.11	<0.005	0.010	0.002	0.05	1.1	0.09	0.15	<0.5	0.6
W871212		1	22.7	2.41	64	0.2	0.02	<0.005	0.015	0.001	<0.05	0.5	0.07	0.09	<0.5	0.5
W871213		1	25.9	3.13	72	0.2	0.03	<0.005	0.017	0.002	0.06	0.2	0.04	0.07	<0.5	0.7
W871214		1	22.6	2.66	70	0.2	0.07	<0.005	0.021	0.002	<0.05	0.5	0.03	0.14	<0.5	0.7
W871215		1	21.2	2.35	61	0.5	0.02	<0.005	0.013	0.002	<0.05	0.6	0.02	0.08	<0.5	<0.5

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

Finalized Date: 6-APR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18059869

Sample Description	Method	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	PGM-ICP23	PGM-ICP23	PGM-ICP23	Se-MS46
	Analyte	Co	Cu	Li	Mo	Ni	Pb	Sc	Zn	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	0.005	0.001	0.003
W871176		13	93	10	1	6	9	17	62	<0.001	<0.005	0.001	0.028
W871177		149	5600	40	2	2140	7	24	80	0.094	0.720	0.365	10.05
W871178		43	129	40	<1	92	4	38	141	<0.001	0.005	0.004	0.596
W871179		52	124	30	<1	159	9	43	103	0.001	<0.005	0.001	0.159
W871180		52	205	20	<1	133	<2	43	120	0.001	<0.005	0.001	0.338
W871181		58	143	20	<1	145	3	42	96	<0.001	<0.005	0.001	0.300
W871182		52	134	20	<1	136	6	43	122	<0.001	<0.005	0.001	0.544
W871183		51	173	10	<1	135	3	42	87	<0.001	<0.005	0.001	0.755
W871184		52	149	20	<1	137	6	44	118	<0.001	<0.005	<0.001	0.491
W871185		47	128	10	<1	128	5	43	114	<0.001	<0.005	0.001	0.494
W871186		54	138	20	<1	136	2	45	92	<0.001	<0.005	<0.001	0.238
W871187		49	183	30	<1	135	12	43	166	0.001	0.010	0.012	0.406
W871188		48	211	40	<1	129	4	41	83	0.001	0.020	0.022	0.326
W871189		50	166	30	<1	126	<2	42	84	0.006	0.021	0.022	0.418
W871190		48	178	30	<1	127	<2	40	94	0.002	0.019	0.022	0.337
W871191		51	149	30	<1	165	4	38	102	0.001	0.014	0.015	0.315
W871192		48	56	30	<1	269	3	34	137	<0.001	<0.005	0.003	0.126
W871193		49	120	40	<1	161	3	36	97	0.001	0.013	0.015	0.310
W871194		51	169	30	<1	129	2	41	106	0.001	0.015	0.018	0.358
W871195		40	139	40	<1	101	14	29	202	<0.001	0.013	0.015	0.550
W871196		114	4730	20	4	4500	21	12	107	0.109	0.296	0.586	3.90
W871197		7	17	30	<1	12	5	3	55	0.006	<0.005	0.001	0.023
W871198		7	16	30	<1	9	10	3	66	<0.001	<0.005	<0.001	0.027
W871199		6	21	30	<1	7	9	3	95	<0.001	<0.005	<0.001	0.117
W871200		56	197	20	<1	152	5	41	109	0.004	0.025	0.031	0.453
W871201		52	144	30	<1	160	6	40	115	0.002	0.023	0.027	0.262
W871202		52	180	30	<1	154	<2	41	95	0.003	0.019	0.024	0.315
W871203		52	186	30	<1	151	2	40	98	0.004	0.020	0.024	0.315
W871204		49	156	20	<1	114	2	41	128	0.004	0.014	0.017	0.395
W871205		51	168	30	<1	143	3	42	162	0.002	0.021	0.025	0.290
W871206		53	198	20	<1	132	7	43	172	0.001	0.019	0.022	0.444
W871207		50	154	10	<1	133	4	44	107	<0.001	<0.005	0.003	0.284
W871208		45	151	20	<1	120	6	41	87	0.001	<0.005	<0.001	0.286
W871209		51	207	20	<1	120	6	39	97	0.004	<0.005	0.001	0.668
W871210		46	124	20	<1	126	3	40	113	<0.001	<0.005	<0.001	0.179
W871211		55	274	20	<1	125	4	39	100	0.003	<0.005	0.001	0.839
W871212		51	82	40	<1	135	6	40	184	0.001	<0.005	0.001	0.419
W871213		53	161	30	<1	106	3	42	142	<0.001	<0.005	0.001	0.438
W871214		62	260	50	<1	118	9	41	210	0.001	<0.005	<0.001	0.317
W871215		51	131	20	<1	130	<2	41	110	<0.001	<0.005	0.004	0.340

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

Finalized Date: 6-APR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18059869

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
W871216		0.08	63.9	16.35	6.03	6.13	2.77	3.35	1.49	<0.01	0.50	0.13	0.14	0.05	0.07	1.00
W871217		2.76	50.7	14.45	12.30	10.90	4.39	2.24	0.39	0.03	1.03	0.25	0.07	0.01	0.01	1.38
W871218		2.27	52.3	14.90	12.40	11.95	4.62	2.35	0.38	0.03	1.05	0.26	0.07	0.01	0.01	1.30
W871219		2.90	52.6	14.55	12.70	11.20	4.91	2.79	0.27	0.03	1.06	0.27	0.07	0.01	0.01	1.34
W871220		2.75	48.1	14.55	12.80	12.25	5.09	2.75	0.25	0.03	0.96	0.28	0.08	0.01	0.01	1.11
W871221		2.73	51.1	14.65	13.35	10.05	5.70	3.17	0.24	0.03	1.06	0.28	0.09	0.01	0.01	1.09
W871222		2.53	51.2	13.25	14.70	8.97	6.57	3.53	0.23	0.02	1.08	0.25	0.08	0.01	0.01	1.11
W871223		2.74	49.5	13.75	15.25	8.67	7.02	2.60	0.44	0.02	1.09	0.25	0.11	0.01	0.01	0.92
W871224		2.49	48.7	12.70	13.15	12.30	5.63	1.04	0.86	0.02	0.95	0.25	0.07	0.01	0.02	4.62
W871225		2.54	47.3	14.30	15.25	8.35	6.97	0.97	1.10	0.02	1.07	0.27	0.09	0.01	0.03	3.01
W871226		2.43	50.2	14.60	12.85	10.80	5.56	1.53	0.75	0.03	1.05	0.26	0.08	<0.01	0.02	2.49
W871227		2.71	49.9	14.75	12.95	10.85	5.72	2.10	0.60	0.03	1.02	0.25	0.08	0.01	0.01	1.33
W871228		2.62	51.0	14.95	12.55	9.50	6.09	2.90	0.37	0.03	1.04	0.26	0.09	<0.01	0.01	1.49
W871229		2.74	49.9	14.75	12.65	10.95	5.53	2.11	0.47	0.03	1.00	0.27	0.07	0.01	0.01	1.79
W871230		2.86	49.6	14.75	12.85	11.40	4.56	1.47	0.63	0.03	1.03	0.29	0.07	<0.01	0.01	1.43
W871231		2.75	52.5	14.05	13.60	9.54	4.92	0.95	1.16	0.03	0.86	0.32	0.07	<0.01	0.02	2.37
W871232		2.73	49.2	15.15	14.50	11.65	6.35	1.97	0.45	0.03	0.85	0.23	0.06	0.01	0.01	1.06
W871233		2.53	50.6	15.05	12.95	11.95	6.20	1.91	0.55	0.03	0.82	0.22	0.07	0.01	0.01	1.47
W871234		2.79	50.8	15.70	12.35	10.40	4.58	2.62	0.37	0.03	0.87	0.29	0.06	<0.01	0.01	1.33
W871235		2.70	48.4	15.50	14.55	12.10	4.72	2.08	0.37	0.03	0.86	0.36	0.06	<0.01	0.01	1.43
W871236		0.08	41.8	8.99	15.30	15.85	10.70	0.61	0.23	0.10	0.68	0.14	0.12	<0.01	0.03	4.02
W871237		2.69	47.4	15.15	14.60	10.95	5.42	1.77	0.29	0.03	0.84	0.32	0.06	<0.01	0.01	1.76
W871238		2.73	49.8	15.40	14.35	11.05	5.54	1.58	0.73	0.04	0.86	0.26	0.06	0.01	0.02	1.77
W871239		2.51	47.7	14.40	13.75	11.70	6.52	1.27	0.88	0.03	0.81	0.24	0.08	0.01	0.02	3.73
W871240		2.71	50.1	15.35	14.05	11.15	5.96	2.05	0.35	0.03	0.87	0.25	0.07	0.01	0.01	1.16
W871241		2.68	50.7	15.15	13.15	12.20	5.21	2.16	0.25	0.03	0.85	0.25	0.07	<0.01	0.01	1.57
W871242		2.56	49.9	15.75	13.65	11.40	5.05	2.64	0.22	0.04	0.87	0.25	0.07	0.01	0.01	1.87
W871243		2.55	50.8	15.80	13.10	9.78	5.32	3.21	0.18	0.05	0.88	0.25	0.07	0.01	0.01	1.49
W871244		2.64	51.1	15.65	11.80	10.60	4.60	3.48	0.18	0.03	0.87	0.21	0.05	0.01	0.01	1.59
W871245		2.62	49.0	15.50	12.75	11.70	4.44	2.24	0.22	0.06	0.85	0.22	0.05	0.01	0.01	1.73
W871246		2.93	48.9	15.55	12.00	13.15	4.31	2.00	0.26	0.04	0.85	0.22	0.06	0.02	0.01	1.35
W871247		2.64	48.2	15.50	12.75	11.95	4.96	2.48	0.24	0.03	0.87	0.22	0.08	0.01	0.01	1.49
W871248		2.61	49.4	15.50	12.70	11.50	4.88	2.56	0.20	0.03	0.88	0.23	0.06	0.01	0.01	1.09
W871249		2.62	49.7	15.65	12.65	11.85	4.61	2.39	0.23	0.04	0.89	0.23	0.06	0.01	0.01	1.54
W871250		2.62	50.1	16.15	12.95	11.85	5.22	2.41	0.23	0.04	0.89	0.23	0.07	0.01	0.01	0.96
W871251		2.73	49.1	15.20	13.60	12.75	5.39	1.76	0.25	0.04	0.83	0.22	0.05	0.01	0.01	1.78
W871252		2.56	50.3	15.40	13.15	11.60	5.58	2.14	0.21	0.06	0.85	0.22	0.07	0.01	0.01	1.32
W871253		0.08	47.5	12.75	21.0	6.30	6.66	2.19	0.62	0.03	1.23	0.19	0.17	0.03	0.02	1.23

***** 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: 6-APR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18059869

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
W871216		101.91	0.03	0.01	597	29.9	10	0.72	4.07	2.69	0.98	17.3	3.92	<5	3.8	0.88
W871217		98.15	0.23	0.16	85.8	9.8	240	0.39	3.90	2.52	0.85	18.0	3.38	<5	1.8	0.84
W871218		101.63	0.23	0.07	81.3	9.8	230	0.32	3.86	2.67	0.97	18.8	3.36	<5	1.8	0.91
W871219		101.81	0.24	0.17	75.9	10.7	240	0.22	4.26	2.91	0.89	19.9	3.50	<5	2.0	0.93
W871220		98.27	0.24	0.15	73.6	9.6	230	0.10	3.47	2.57	0.81	17.4	2.83	<5	1.7	0.77
W871221		100.83	0.18	0.22	65.6	11.4	240	0.21	4.12	2.64	0.97	18.4	3.25	<5	1.9	0.91
W871222		101.01	0.21	0.32	56.2	11.1	140	0.14	4.16	2.65	0.95	18.1	3.51	<5	2.0	0.87
W871223		99.64	0.04	0.15	78.9	11.1	140	0.33	3.98	2.59	0.94	18.4	3.61	<5	2.0	0.86
W871224		100.32	0.88	0.09	197.0	9.8	150	1.25	3.47	2.43	0.84	16.5	3.16	<5	1.6	0.79
W871225		98.74	0.23	0.19	248	9.7	170	1.36	3.68	2.43	0.76	19.1	3.43	<5	1.8	0.84
W871226		100.22	0.17	0.05	160.0	10.0	220	0.61	3.93	2.59	0.89	18.1	3.39	<5	1.8	0.89
W871227		99.60	0.21	0.14	114.0	9.4	220	0.41	3.69	2.53	0.90	17.5	3.43	<5	1.8	0.84
W871228		100.28	0.15	0.12	82.6	10.1	240	0.30	3.74	2.54	0.85	19.7	3.61	<5	1.8	0.90
W871229		99.54	0.29	0.10	90.9	9.4	230	0.31	3.78	2.27	0.88	18.4	3.39	<5	1.7	0.86
W871230		98.12	0.23	0.10	72.0	9.8	220	0.48	3.96	2.62	0.87	18.7	3.38	<5	1.8	0.90
W871231		100.39	0.29	0.68	155.5	14.0	210	1.44	3.34	2.26	0.85	19.3	3.12	<5	2.0	0.74
W871232		101.52	0.13	0.08	62.4	7.5	220	0.25	3.14	2.19	0.72	17.7	2.88	<5	1.4	0.69
W871233		101.84	0.26	0.13	81.4	7.6	220	0.28	2.89	2.04	0.74	18.4	2.83	<5	1.3	0.70
W871234		99.41	0.32	0.19	53.9	9.0	230	0.71	3.03	2.04	0.75	18.1	2.96	<5	1.5	0.68
W871235		100.47	0.32	0.19	54.7	7.6	230	0.33	3.06	2.03	0.79	18.1	3.09	<5	1.4	0.71
W871236		98.57	0.24	2.64	278	19.0	760	0.41	2.57	1.33	0.75	11.5	2.60	<5	1.8	0.51
W871237		98.60	0.32	0.27	43.7	8.5	230	0.41	3.45	2.12	0.71	18.4	2.91	<5	1.4	0.68
W871238		101.47	0.19	0.10	137.5	7.7	260	0.76	3.16	2.23	0.71	18.2	2.98	<5	1.4	0.73
W871239		101.14	0.63	0.11	166.5	13.6	210	1.14	3.38	2.06	0.83	16.4	3.28	<5	1.2	0.68
W871240		101.41	0.12	0.12	71.2	8.2	230	0.38	3.21	2.17	0.73	17.9	3.12	<5	1.5	0.70
W871241		101.60	0.23	0.08	62.9	7.7	240	0.18	3.19	1.96	0.76	17.4	2.79	<5	1.4	0.69
W871242		101.73	0.31	0.05	60.6	8.3	310	0.18	3.30	2.12	0.71	17.8	2.79	<5	1.4	0.76
W871243		100.95	0.18	0.06	59.5	8.2	370	0.26	3.21	2.22	0.79	18.6	2.81	<5	1.6	0.76
W871244		100.18	0.25	0.11	64.3	7.8	240	0.13	3.30	2.24	0.70	18.3	2.83	<5	1.5	0.72
W871245		98.78	0.25	0.15	71.1	7.9	430	0.24	2.91	1.99	0.81	18.5	2.77	<5	1.6	0.68
W871246		98.72	0.25	0.10	82.5	7.5	260	0.21	3.03	2.11	0.74	18.0	2.88	<5	1.4	0.70
W871247		98.79	0.24	0.07	73.7	7.5	210	0.15	3.08	2.07	0.65	16.1	2.65	<5	1.4	0.66
W871248		99.05	0.17	0.09	67.5	7.8	230	0.10	3.14	2.18	0.71	17.7	2.72	<5	1.5	0.76
W871249		99.86	0.26	0.10	73.0	7.6	250	0.28	3.39	2.23	0.68	17.8	2.97	<5	1.5	0.68
W871250		101.12	0.12	0.10	71.9	7.9	270	0.20	3.20	2.13	0.73	16.9	2.87	<5	1.4	0.74
W871251		100.99	0.25	0.10	74.2	7.3	290	0.30	3.08	2.01	0.70	19.0	2.88	<5	1.4	0.70
W871252		100.92	0.15	0.12	64.6	7.5	420	0.19	3.01	2.04	0.75	18.2	2.69	<5	1.5	0.70
W871253		99.92	0.07	1.74	205	25.0	230	0.91	2.25	1.32	1.00	16.0	2.94	<5	2.4	0.49

***** 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: 6-APR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18059869

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
W871216		13.4	0.41	3.2	17.1	4.04	27.9	3.85	1	510	0.2	0.69	2.75	0.38	1.24	165
W871217		3.7	0.37	2.7	7.8	1.51	10.4	2.12	1	123.0	0.2	0.60	0.38	0.37	0.08	353
W871218		3.8	0.39	2.6	7.3	1.45	11.2	2.64	1	149.0	0.2	0.59	0.39	0.40	0.10	349
W871219		4.1	0.43	3.1	7.9	1.60	8.2	2.58	1	137.0	0.2	0.62	0.35	0.43	0.11	362
W871220		3.6	0.35	2.4	6.6	1.45	5.8	2.02	1	122.5	0.2	0.57	0.33	0.35	0.10	311
W871221		4.3	0.39	3.1	8.6	1.73	5.7	2.62	1	117.5	0.2	0.62	0.39	0.37	0.12	353
W871222		4.5	0.37	2.9	8.3	1.65	4.8	2.52	1	139.5	0.2	0.56	0.39	0.41	0.11	344
W871223		4.5	0.44	3.4	8.4	1.71	12.0	2.51	1	94.6	0.1	0.69	0.41	0.37	0.19	331
W871224		4.1	0.34	2.8	7.0	1.48	25.8	2.32	1	90.6	0.1	0.55	0.37	0.34	0.13	295
W871225		3.9	0.37	3.0	7.2	1.50	33.6	2.26	1	98.3	0.1	0.58	0.38	0.35	0.14	328
W871226		4.1	0.38	2.9	7.8	1.59	21.0	2.61	1	74.4	0.1	0.64	0.35	0.36	0.10	324
W871227		3.9	0.38	2.7	7.2	1.38	15.4	2.51	1	96.9	0.1	0.62	0.34	0.36	0.13	312
W871228		4.1	0.39	3.1	8.0	1.57	8.5	2.50	1	80.6	0.1	0.63	0.36	0.37	0.11	335
W871229		3.7	0.35	2.8	7.2	1.43	11.3	2.42	1	97.5	0.1	0.57	0.29	0.35	0.10	321
W871230		4.1	0.39	2.8	7.5	1.54	16.2	2.58	1	94.0	0.1	0.64	0.31	0.39	0.10	327
W871231		6.2	0.33	3.3	9.6	1.94	32.2	2.52	2	88.8	0.1	0.57	0.79	0.32	0.24	262
W871232		3.0	0.30	2.0	6.1	1.17	12.3	2.04	<1	113.0	0.1	0.51	0.24	0.27	0.05	283
W871233		3.2	0.29	2.1	5.8	1.19	16.4	1.81	1	111.5	0.1	0.45	0.26	0.32	0.06	282
W871234		3.8	0.33	2.4	6.9	1.33	10.0	1.90	1	78.6	0.1	0.51	0.36	0.29	0.10	285
W871235		3.3	0.32	2.1	6.6	1.21	8.0	2.23	<1	79.9	0.1	0.52	0.30	0.32	0.09	291
W871236		9.7	0.21	6.1	10.2	2.38	4.8	2.38	2	61.7	0.3	0.42	1.90	0.20	0.96	172
W871237		3.8	0.33	2.2	6.6	1.29	7.1	2.20	1	82.9	<0.1	0.49	0.28	0.30	0.09	289
W871238		3.1	0.32	2.2	6.1	1.24	21.7	2.03	<1	100.0	0.1	0.52	0.26	0.28	0.07	290
W871239		5.9	0.32	5.7	8.7	1.79	27.7	2.56	<1	108.0	<0.1	0.58	0.57	0.32	0.09	270
W871240		3.3	0.34	2.5	6.3	1.26	9.1	1.84	<1	99.5	0.1	0.51	0.29	0.31	0.07	287
W871241		3.1	0.32	2.5	6.0	1.20	5.7	2.03	1	107.5	0.1	0.53	0.28	0.27	0.05	281
W871242		3.5	0.35	2.4	5.9	1.28	4.6	2.08	1	103.5	0.1	0.52	0.25	0.30	0.07	283
W871243		3.4	0.33	2.3	6.5	1.30	4.1	2.28	<1	118.0	0.1	0.53	0.28	0.33	0.07	292
W871244		3.2	0.30	2.4	6.4	1.24	3.6	2.05	1	147.5	<0.1	0.52	0.28	0.32	0.07	293
W871245		3.1	0.33	2.3	6.0	1.18	4.8	1.91	1	133.0	<0.1	0.50	0.27	0.29	0.08	286
W871246		3.1	0.29	2.1	5.7	1.21	6.9	1.85	1	164.5	0.1	0.47	0.28	0.29	0.16	278
W871247		3.2	0.32	2.3	5.9	1.15	5.2	1.86	<1	114.5	<0.1	0.47	0.27	0.29	0.08	265
W871248		3.3	0.32	2.2	6.2	1.18	4.1	2.03	1	136.0	<0.1	0.52	0.24	0.31	0.08	291
W871249		3.1	0.30	2.3	5.7	1.19	4.6	2.02	1	125.5	0.1	0.48	0.27	0.29	0.06	283
W871250		3.2	0.33	2.1	6.0	1.22	4.2	1.97	<1	101.0	<0.1	0.51	0.25	0.31	0.06	279
W871251		3.0	0.30	2.1	5.5	1.14	6.1	1.85	<1	150.5	<0.1	0.46	0.21	0.29	0.07	274
W871252		3.2	0.32	2.2	5.9	1.16	4.6	2.06	2	149.5	0.1	0.51	0.28	0.32	0.07	285
W871253		12.4	0.17	6.7	13.2	3.20	14.9	2.81	4	236	0.3	0.45	1.59	0.19	0.48	113

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

Finalized Date: 6-APR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18059869

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
W871216		6	23.8	2.47	132	0.8	0.05	<0.005	0.011	<0.001	0.12	<0.2	<0.01	0.05	<0.5	<0.5
W871217		1	22.4	2.41	64	0.3	0.01	<0.005	0.013	0.001	<0.05	0.2	0.02	0.05	<0.5	0.5
W871218		2	22.3	2.36	65	0.4	0.01	<0.005	0.012	0.001	<0.05	0.4	0.01	0.03	<0.5	0.6
W871219		<1	24.8	2.84	67	0.3	0.02	<0.005	0.012	0.002	0.05	0.3	0.01	0.05	<0.5	0.7
W871220		6	19.9	2.38	58	0.2	0.01	<0.005	0.010	0.001	<0.05	0.5	0.02	0.04	<0.5	0.7
W871221		<1	23.7	2.44	68	0.1	0.03	<0.005	0.011	0.001	<0.05	0.5	0.02	0.04	<0.5	0.6
W871222		1	23.2	2.43	69	0.2	0.04	<0.005	0.016	0.001	<0.05	0.4	0.03	0.04	<0.5	0.7
W871223		1	22.9	2.47	72	0.6	0.04	<0.005	0.013	0.001	<0.05	0.3	0.02	0.03	<0.5	0.5
W871224		1	19.5	2.13	62	0.5	0.03	<0.005	0.010	0.001	<0.05	0.3	0.01	0.06	<0.5	<0.5
W871225		1	20.2	2.33	67	0.8	0.04	<0.005	0.016	0.001	0.11	0.6	0.02	0.09	<0.5	0.7
W871226		1	21.9	2.26	66	0.6	0.02	<0.005	0.015	0.002	0.12	0.2	0.01	0.12	<0.5	0.5
W871227		1	21.2	2.23	64	0.5	0.01	0.006	0.011	0.002	0.15	0.5	0.01	0.07	<0.5	0.5
W871228		1	21.8	2.25	68	0.6	0.01	<0.005	0.012	0.001	0.17	0.5	0.01	0.07	<0.5	0.8
W871229		1	21.4	2.30	62	0.4	0.01	<0.005	0.013	0.002	0.18	0.4	0.02	0.07	<0.5	0.7
W871230		1	22.0	2.36	65	0.3	0.01	<0.005	0.013	0.001	0.14	0.3	0.02	0.08	<0.5	0.8
W871231		1	19.3	2.09	72	1.2	0.08	<0.005	0.067	0.002	0.18	1.9	0.77	0.27	<0.5	2.0
W871232		<1	17.7	2.06	49	0.4	<0.01	<0.005	0.008	0.002	0.15	0.4	0.01	0.06	<0.5	0.7
W871233		<1	17.5	1.86	50	0.4	0.01	<0.005	0.008	0.001	0.14	0.4	0.03	0.07	<0.5	<0.5
W871234		1	17.4	1.78	58	0.5	0.03	0.007	0.021	0.002	0.12	0.7	0.14	0.12	<0.5	0.6
W871235		<1	18.1	2.03	52	0.5	0.01	<0.005	0.013	0.002	0.13	0.4	0.05	0.07	<0.5	0.5
W871236		1	13.7	1.28	74	42.0	0.28	0.122	0.049	0.015	1.36	11.6	1.23	0.07	2.5	0.9
W871237		<1	18.4	2.13	52	0.2	0.02	<0.005	0.011	0.001	0.09	0.6	0.03	0.06	<0.5	<0.5
W871238		1	17.9	1.99	52	0.3	0.01	<0.005	0.011	<0.001	0.08	<0.2	0.01	0.06	<0.5	0.6
W871239		1	18.8	1.75	49	0.9	0.02	<0.005	0.013	0.001	0.06	0.5	0.02	0.10	<0.5	0.6
W871240		<1	17.9	1.97	51	0.5	0.02	<0.005	0.009	0.001	0.06	0.5	0.03	0.06	<0.5	<0.5
W871241		1	17.5	1.96	51	0.2	0.01	<0.005	0.009	0.002	0.06	0.4	0.01	0.05	<0.5	0.5
W871242		1	18.2	2.14	51	0.3	0.01	<0.005	0.013	0.001	0.06	0.2	0.02	0.03	<0.5	0.5
W871243		1	18.8	1.98	53	0.2	<0.01	<0.005	0.011	0.001	0.05	0.2	0.02	0.04	<0.5	<0.5
W871244		1	18.8	1.93	51	0.3	<0.01	<0.005	0.011	0.001	0.05	0.4	0.01	0.04	<0.5	0.5
W871245		1	17.4	1.86	51	0.4	0.01	<0.005	0.014	0.001	0.05	0.4	0.02	0.06	<0.5	0.6
W871246		<1	17.6	1.94	49	0.3	<0.01	<0.005	0.011	0.001	<0.05	0.5	0.02	0.06	<0.5	0.9
W871247		1	17.2	1.84	48	0.2	<0.01	0.006	0.011	0.002	<0.05	0.3	0.02	0.07	<0.5	0.6
W871248		1	18.6	2.06	52	0.2	0.01	<0.005	0.009	0.001	<0.05	0.5	0.01	0.04	<0.5	<0.5
W871249		1	18.2	1.79	52	0.2	<0.01	0.005	0.012	0.001	<0.05	0.3	0.03	0.06	<0.5	<0.5
W871250		<1	18.2	2.02	50	0.3	<0.01	<0.005	0.012	0.001	<0.05	0.7	0.02	0.07	<0.5	0.5
W871251		<1	17.3	1.87	49	0.3	<0.01	<0.005	0.010	0.001	<0.05	0.5	0.01	0.05	<0.5	0.5
W871252		1	17.6	2.05	52	0.3	0.01	<0.005	0.009	0.002	<0.05	0.5	0.02	0.06	<0.5	0.8
W871253		3	12.1	1.05	95	3.8	0.72	0.014	0.069	0.007	0.33	5.3	0.54	0.11	1.9	1.3

***** 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: 6-APR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18059869

Sample Description	Method	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	ME-4ACD81	PGM-ICP23	PGM-ICP23	PGM-ICP23	Se-MS46
	Analyte	Co	Cu	Li	Mo	Ni	Pb	Sc	Zn	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	0.005	0.001	0.003
W871216		13	93	10	1	6	8	16	62	<0.001	<0.005	0.001	0.026
W871217		51	138	20	<1	120	<2	41	114	0.001	<0.005	0.002	0.344
W871218		50	119	10	<1	113	<2	41	134	<0.001	<0.005	0.002	0.237
W871219		51	118	10	<1	112	3	40	283	<0.001	<0.005	0.002	0.337
W871220		49	144	10	<1	110	2	40	125	<0.001	<0.005	0.001	0.397
W871221		47	140	20	<1	98	2	41	111	0.006	<0.005	<0.001	0.452
W871222		46	161	10	<1	62	<2	40	124	<0.001	<0.005	<0.001	0.555
W871223		46	147	20	<1	66	3	42	157	<0.001	<0.005	<0.001	0.382
W871224		40	101	40	<1	69	<2	36	121	<0.001	<0.005	<0.001	0.211
W871225		51	142	50	<1	84	6	41	220	<0.001	<0.005	0.002	0.442
W871226		47	101	50	<1	109	<2	40	82	<0.001	<0.005	0.003	0.138
W871227		50	128	20	<1	116	<2	40	102	<0.001	<0.005	0.003	0.314
W871228		49	131	20	<1	119	<2	40	117	<0.001	<0.005	0.003	0.293
W871229		50	133	20	<1	121	<2	40	148	<0.001	<0.005	0.003	0.264
W871230		52	140	10	<1	120	<2	43	139	<0.001	<0.005	0.002	0.264
W871231		57	251	40	<1	128	9	34	753	0.003	<0.005	0.003	1.705
W871232		51	135	10	<1	116	<2	37	103	<0.001	<0.005	0.004	0.291
W871233		55	221	20	<1	118	<2	37	128	0.001	<0.005	0.005	0.443
W871234		56	213	10	<1	128	5	36	214	0.005	<0.005	0.005	0.636
W871235		52	177	20	<1	122	<2	39	114	<0.001	<0.005	0.004	0.394
W871236		138	5240	40	1	1970	5	22	69	0.119	0.715	0.375	10.05
W871237		53	194	20	<1	127	<2	37	107	0.001	<0.005	0.004	0.575
W871238		50	123	30	<1	119	19	36	115	<0.001	<0.005	0.004	0.287
W871239		47	139	30	<1	105	4	35	106	<0.001	<0.005	0.004	0.389
W871240		51	144	20	<1	122	<2	38	109	<0.001	<0.005	0.004	0.373
W871241		50	123	20	<1	120	<2	37	96	<0.001	0.005	0.004	0.309
W871242		51	136	20	<1	125	2	39	108	0.002	<0.005	0.004	0.214
W871243		54	142	20	<1	139	3	40	119	<0.001	<0.005	0.005	0.237
W871244		52	157	10	<1	127	5	38	104	<0.001	<0.005	0.005	0.380
W871245		55	153	20	<1	143	<2	40	115	0.047	<0.005	0.005	0.416
W871246		50	137	10	<1	120	<2	39	108	0.001	0.005	0.004	0.346
W871247		54	144	10	<1	121	2	38	132	<0.001	0.005	0.004	0.253
W871248		53	125	10	<1	125	4	39	110	<0.001	<0.005	0.004	0.305
W871249		53	149	10	<1	128	2	39	113	0.001	<0.005	0.005	0.334
W871250		55	159	10	<1	132	<2	40	113	<0.001	<0.005	0.004	0.382
W871251		50	124	20	<1	123	<2	35	102	<0.001	<0.005	0.006	0.358
W871252		54	139	20	<1	140	<2	38	99	<0.001	<0.005	0.005	0.372
W871253		107	4370	20	3	4220	20	11	102	0.105	0.295	0.599	3.92

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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	ME-4ACD81	ME-ICP06	ME-MS42
	ME-MS81	OA-GRA05	PGM-ICP23	Se-MS46
	S-IR08	TOT-ICP06		