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: 9-MAR-2018
Account: NAPEHZEU

CERTIFICATE TB18042507

Project: Gfields

P.O. No.: 178845

This report is for 78 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 23-FEB-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 TB18042507

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
W870561		0.06	62.4	16.75	6.00	6.33	2.77	3.30	1.48	<0.01	0.49	0.12	0.14	0.06	0.06	0.98
W870562		0.09	42.1	9.17	15.15	16.10	10.90	0.60	0.23	0.10	0.70	0.14	0.11	<0.01	0.03	3.99
W870563		2.69	46.7	14.50	14.25	11.45	7.90	1.60	0.23	0.03	0.92	0.22	0.05	0.01	0.01	1.08
W870564		2.46	49.6	14.25	13.15	10.95	7.27	1.83	0.18	0.03	0.89	0.20	0.04	0.01	<0.01	0.81
W870565		2.50	50.3	14.95	11.55	12.30	4.82	2.17	0.23	0.05	0.88	0.23	0.07	0.01	0.01	1.22
W870566		2.50	47.9	15.40	13.85	13.45	5.42	1.98	0.21	0.04	0.93	0.27	0.12	0.02	0.01	1.09
W870567		2.40	47.6	15.20	13.90	13.05	5.76	2.09	0.15	0.06	1.01	0.29	0.06	0.01	0.01	1.32
W870568		2.39	48.2	15.45	14.10	12.95	5.43	2.19	0.20	0.04	1.04	0.27	0.06	0.01	0.01	1.26
W870569		2.42	48.5	15.60	13.25	13.50	5.57	2.09	0.14	0.04	0.97	0.26	0.08	0.01	0.01	0.94
W870570		2.29	48.7	15.20	11.20	10.30	5.56	2.50	0.43	0.03	0.83	0.20	0.02	0.01	0.01	1.32
W870571		2.50	47.8	15.15	13.65	13.95	5.02	1.91	0.22	0.06	1.03	0.27	0.07	0.02	0.01	1.86
W870572		2.49	48.9	15.10	12.00	13.00	4.66	2.40	0.14	0.03	0.95	0.25	0.07	0.01	0.01	0.77
W870573		2.32	48.4	15.55	12.80	12.75	5.90	2.30	0.14	0.04	0.98	0.24	0.05	0.02	0.01	0.99
W870574		2.27	47.8	14.05	14.15	13.10	7.88	1.40	0.11	0.03	0.90	0.22	0.04	0.01	<0.01	0.93
W870575		2.37	46.5	13.95	14.55	11.65	7.76	1.61	0.15	0.03	0.86	0.22	0.03	0.01	<0.01	0.97
W870576		2.49	46.8	14.00	14.65	12.20	8.28	1.47	0.12	0.03	0.91	0.22	0.06	0.01	<0.01	0.70
W870577		2.52	47.2	15.10	14.35	11.95	8.36	1.54	0.06	0.04	0.95	0.21	0.05	0.01	<0.01	0.44
W870578		2.29	46.3	14.55	15.35	12.50	8.47	1.41	0.06	0.04	1.03	0.22	0.07	0.01	<0.01	0.22
W870579		2.57	46.2	14.50	14.45	11.60	8.04	1.63	0.20	0.04	0.97	0.21	0.05	0.01	<0.01	0.92
W870580		2.47	46.5	14.40	14.65	11.25	8.31	1.65	0.09	0.04	0.97	0.21	0.05	0.01	<0.01	0.70
W870581		0.09	46.7	12.70	20.6	6.26	6.68	2.21	0.62	0.03	1.21	0.19	0.17	0.03	0.02	1.17
W870582		2.59	46.0	14.60	15.25	11.75	8.41	1.55	0.13	0.04	1.03	0.22	0.04	0.01	<0.01	0.74
W870583		2.53	46.1	14.80	14.75	11.60	8.12	1.74	0.23	0.04	0.99	0.22	0.03	0.01	<0.01	1.23
W870584		2.66	46.6	14.25	14.60	11.85	8.14	1.58	0.11	0.04	0.98	0.22	0.05	0.01	<0.01	0.86
W870585		2.33	46.3	14.45	14.85	11.90	7.97	1.63	0.14	0.04	1.04	0.23	0.04	0.01	<0.01	0.90
W870586		2.46	45.8	13.95	14.45	12.80	7.98	1.46	0.17	0.03	0.96	0.21	0.05	0.01	<0.01	0.85
W870587		2.66	45.5	14.35	15.05	11.80	8.05	1.51	0.14	0.04	1.05	0.22	0.04	0.01	<0.01	1.22
W870588		2.48	46.6	14.30	15.00	11.70	8.14	1.70	0.19	0.04	1.04	0.23	0.05	0.01	<0.01	0.96
W870589		2.66	45.8	14.25	15.35	11.55	8.56	1.60	0.25	0.04	1.02	0.23	0.03	0.01	<0.01	1.05
W870590		2.48	48.2	15.45	13.30	13.10	5.73	2.22	0.17	0.06	1.05	0.27	0.05	0.01	0.01	1.05
W870591		2.54	47.6	15.60	13.05	13.00	5.38	2.07	0.19	0.05	0.98	0.25	0.07	0.02	0.01	0.67
W870592		2.53	48.6	16.05	12.15	13.95	4.60	2.20	0.24	0.03	0.95	0.28	0.07	0.02	0.01	1.49
W870593		2.53	46.0	14.30	13.25	15.25	4.26	1.69	0.12	0.04	0.95	0.29	0.08	0.01	<0.01	2.81
W870594		2.65	47.0	15.45	13.20	14.55	5.28	1.69	0.10	0.04	1.00	0.28	0.07	0.01	<0.01	1.17
W870595		2.52	46.7	15.40	14.40	13.65	5.85	1.76	0.10	0.04	1.05	0.30	0.06	0.01	0.01	1.00
W870596		2.69	47.0	15.05	12.80	14.95	4.72	1.88	0.18	0.04	1.01	0.33	0.06	0.01	0.01	1.64
W870597		2.47	49.4	14.35	13.00	14.25	4.49	1.49	0.20	0.03	0.98	0.31	0.08	0.01	0.01	1.93
W870598		2.51	47.6	15.25	13.80	13.85	5.01	1.70	0.21	0.04	1.02	0.27	0.07	0.01	0.01	1.72
W870599		2.42	47.1	14.55	13.95	11.90	6.41	2.05	0.16	0.03	0.97	0.24	0.06	0.01	<0.01	1.23
W870600		2.47	46.8	14.10	15.05	11.55	7.77	1.49	0.17	0.02	0.84	0.22	0.04	0.01	<0.01	2.17

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Finalized Date: 9-MAR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18042507

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
W870561		100.88	0.04	0.01	560	26.4	10	0.64	3.76	2.42	0.92	17.2	3.80	<5	3.1	0.79
W870562		99.32	0.24	2.62	284	18.2	750	0.43	2.57	1.52	0.77	11.9	2.71	<5	1.8	0.53
W870563		98.95	0.08	0.09	48.3	3.1	230	0.68	2.49	1.65	0.74	17.5	2.21	<5	0.5	0.56
W870564		99.21	0.06	0.06	36.9	3.8	240	0.45	2.46	1.58	0.69	17.1	2.07	<5	0.7	0.54
W870565		98.79	0.18	0.03	64.2	5.9	330	0.38	2.87	1.88	0.71	18.0	2.41	<5	1.0	0.63
W870566		100.69	0.18	0.15	63.1	8.8	310	0.48	3.34	2.26	0.88	19.3	2.96	<5	1.1	0.72
W870567		100.51	0.24	0.08	55.7	5.5	430	0.40	3.15	2.08	0.81	18.7	2.86	<5	1.0	0.71
W870568		101.21	0.20	0.07	53.9	5.4	270	0.35	3.19	1.98	0.85	19.6	2.74	<5	0.8	0.70
W870569		100.96	0.16	0.06	52.9	5.7	250	0.34	3.00	2.08	0.84	18.8	2.91	<5	1.0	0.72
W870570		96.31	0.09	0.10	52.6	5.7	210	0.67	2.37	1.64	0.68	17.3	2.09	<5	1.1	0.57
W870571		101.02	0.23	0.05	58.7	5.6	400	0.51	3.02	2.05	0.89	19.1	2.68	<5	1.1	0.67
W870572		98.29	0.16	0.05	62.9	7.8	240	0.24	3.15	1.94	0.80	18.7	2.90	<5	1.4	0.71
W870573		100.17	0.16	0.06	49.6	5.3	250	0.26	2.91	1.87	0.80	19.1	2.65	<5	0.9	0.67
W870574		100.62	0.09	0.07	28.3	3.6	220	0.30	2.84	1.81	0.73	17.2	2.25	<5	0.7	0.61
W870575		98.29	0.07	0.08	26.4	3.0	180	0.38	2.45	1.78	0.71	18.3	2.21	<5	0.5	0.52
W870576		99.45	0.07	0.11	24.3	3.6	220	0.35	2.26	1.56	0.64	16.3	2.06	<5	0.5	0.52
W870577		100.26	0.10	0.10	20.0	3.2	260	0.47	2.50	1.61	0.70	18.3	2.18	<5	0.6	0.54
W870578		100.23	0.09	0.09	16.8	3.8	300	0.42	2.80	1.89	0.75	19.4	2.51	<5	0.6	0.62
W870579		98.82	0.08	0.09	29.3	3.6	260	0.81	2.86	1.85	0.77	17.7	2.53	<5	0.7	0.62
W870580		98.83	0.09	0.10	22.0	3.0	270	0.44	2.81	1.88	0.80	18.2	2.30	<5	0.5	0.60
W870581		98.59	0.07	1.72	210	24.5	230	0.89	2.55	1.41	1.05	16.8	2.76	<5	2.3	0.48
W870582		99.77	0.10	0.11	22.4	3.6	280	0.43	2.78	1.88	0.73	18.1	2.34	<5	0.4	0.63
W870583		99.86	0.13	0.09	36.4	3.8	270	0.65	2.70	1.62	0.75	18.2	2.32	<5	1.0	0.59
W870584		99.29	0.09	0.08	23.8	3.5	260	0.32	2.80	1.92	0.85	17.7	2.52	<5	0.6	0.62
W870585		99.50	0.07	0.09	33.4	4.2	290	0.66	3.06	2.10	0.84	18.4	2.56	<5	0.6	0.66
W870586		98.72	0.09	0.10	31.4	4.4	270	0.55	3.32	2.07	0.87	17.8	2.76	<5	0.7	0.71
W870587		98.98	0.11	0.09	28.8	3.3	290	0.53	2.83	1.88	0.79	17.5	2.41	<5	0.6	0.62
W870588		99.96	0.07	0.10	34.4	3.6	290	0.53	2.94	2.03	0.86	17.8	2.39	<5	0.6	0.61
W870589		99.74	0.06	0.08	44.5	3.3	290	0.51	2.73	1.73	0.78	16.6	2.11	<5	0.5	0.56
W870590		100.67	0.16	0.08	76.6	5.6	450	0.39	3.40	2.45	0.95	18.8	3.02	<5	0.9	0.71
W870591		98.94	0.15	0.07	87.6	8.2	350	0.54	3.00	1.89	0.88	18.7	2.72	<5	1.0	0.67
W870592		100.64	0.28	0.12	95.7	11.0	240	0.63	3.10	2.03	0.88	18.6	2.84	<5	1.4	0.67
W870593		99.05	0.60	0.31	43.5	6.5	270	0.35	3.32	2.24	0.92	17.7	2.99	<5	1.0	0.72
W870594		99.84	0.19	0.06	44.1	5.7	300	0.34	3.34	2.31	0.91	19.0	2.84	<5	1.0	0.74
W870595		100.33	0.16	0.07	46.6	5.7	310	0.30	3.26	2.18	0.86	18.2	2.76	<5	1.0	0.68
W870596		99.68	0.30	0.08	63.6	6.7	270	0.63	3.39	2.34	0.91	18.5	2.94	<5	1.1	0.74
W870597		100.53	0.29	0.14	63.2	7.4	250	0.61	3.61	2.71	0.91	18.5	3.02	<5	1.3	0.82
W870598		100.56	0.25	0.07	58.4	7.0	280	0.49	3.57	2.35	0.94	19.4	3.06	<5	1.2	0.74
W870599		98.66	0.18	0.06	36.0	4.1	250	0.37	2.99	1.95	0.80	17.0	2.56	<5	0.8	0.61
W870600		100.23	0.32	0.10	27.3	3.5	180	0.57	2.51	1.71	0.71	17.7	1.97	<5	0.6	0.57

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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
W870561		13.2	0.39	3.0	16.7	4.01	25.2	3.86	1	508	0.2	0.60	2.88	0.36	1.15	145
W870562		9.9	0.24	6.0	10.7	2.61	4.6	2.53	2	68.0	0.3	0.43	1.96	0.21	0.94	180
W870563		1.2	0.27	0.7	3.7	0.67	5.7	1.37	<1	109.0	<0.1	0.38	0.07	0.24	<0.05	323
W870564		1.5	0.27	0.7	4.1	0.74	3.9	1.50	<1	109.0	<0.1	0.40	0.69	0.24	0.22	312
W870565		2.6	0.27	1.1	5.2	1.03	5.0	1.97	<1	140.0	0.1	0.45	1.38	0.24	0.38	316
W870566		3.6	0.36	1.9	7.5	1.54	4.9	2.57	<1	140.5	0.1	0.51	0.42	0.32	0.15	311
W870567		2.1	0.34	1.5	5.6	1.04	2.8	1.95	<1	124.0	0.1	0.52	<0.05	0.28	<0.05	371
W870568		2.1	0.33	1.4	5.6	1.01	3.4	2.02	<1	136.5	<0.1	0.50	<0.05	0.31	<0.05	385
W870569		2.2	0.35	1.1	5.6	1.08	3.0	1.89	<1	139.0	<0.1	0.50	0.05	0.30	<0.05	322
W870570		2.6	0.29	1.4	4.9	0.97	13.8	1.68	<1	141.5	0.1	0.38	1.40	0.23	0.57	281
W870571		2.1	0.32	1.6	5.7	1.07	5.8	1.90	<1	149.0	0.1	0.50	0.06	0.29	0.07	330
W870572		3.3	0.34	1.4	6.5	1.30	2.2	2.25	<1	120.5	0.1	0.51	0.43	0.29	0.14	322
W870573		2.1	0.29	0.9	5.2	0.98	2.6	1.88	<1	142.5	<0.1	0.46	0.10	0.27	0.10	347
W870574		1.4	0.29	0.6	4.3	0.74	2.2	1.59	<1	139.0	<0.1	0.41	<0.05	0.29	<0.05	315
W870575		1.1	0.28	0.5	3.8	0.66	2.9	1.32	<1	105.0	<0.1	0.36	<0.05	0.25	<0.05	327
W870576		1.4	0.26	1.2	3.8	0.70	2.8	1.45	<1	112.0	<0.1	0.40	0.06	0.23	<0.05	317
W870577		1.1	0.26	0.9	3.8	0.64	2.9	1.52	<1	126.0	<0.1	0.37	<0.05	0.23	0.06	332
W870578		1.4	0.28	1.2	4.6	0.77	1.8	1.72	1	150.5	<0.1	0.46	0.08	0.27	0.16	399
W870579		1.4	0.30	0.8	4.3	0.78	5.5	1.54	<1	130.0	<0.1	0.46	0.06	0.25	0.06	349
W870580		1.0	0.26	0.7	3.7	0.67	2.1	1.53	1	106.0	<0.1	0.41	<0.05	0.24	<0.05	371
W870581		12.4	0.20	7.0	13.9	3.44	15.6	2.78	3	268	0.4	0.45	1.51	0.20	0.50	120
W870582		1.4	0.29	0.8	4.1	0.75	2.6	1.79	<1	117.5	<0.1	0.44	<0.05	0.27	<0.05	397
W870583		1.4	0.27	0.8	4.1	0.74	5.6	1.59	<1	131.5	<0.1	0.42	0.17	0.24	0.09	356
W870584		1.2	0.30	0.7	4.3	0.74	2.1	1.62	<1	103.0	<0.1	0.46	<0.05	0.26	<0.05	349
W870585		1.4	0.28	0.8	4.8	0.79	3.5	1.67	<1	123.0	<0.1	0.47	0.05	0.31	<0.05	414
W870586		1.3	0.31	0.7	4.7	0.83	4.3	2.05	<1	113.5	<0.1	0.51	<0.05	0.31	<0.05	383
W870587		1.0	0.25	0.6	4.3	0.63	3.2	1.66	<1	128.5	<0.1	0.42	<0.05	0.23	<0.05	418
W870588		1.1	0.29	0.6	4.1	0.70	5.3	1.61	<1	141.0	<0.1	0.44	<0.05	0.32	<0.05	420
W870589		1.0	0.23	0.6	4.0	0.64	6.4	1.39	<1	118.5	<0.1	0.42	<0.05	0.26	<0.05	398
W870590		2.0	0.33	1.5	5.8	1.02	3.5	2.00	<1	133.5	<0.1	0.54	0.09	0.33	0.09	426
W870591		3.3	0.29	1.5	6.3	1.31	5.2	2.13	<1	169.5	<0.1	0.46	0.24	0.31	0.06	375
W870592		4.6	0.30	2.0	7.7	1.63	6.6	2.15	<1	196.5	0.1	0.50	0.37	0.31	0.09	338
W870593		2.3	0.34	1.4	5.9	1.08	2.8	1.93	<1	140.0	<0.1	0.52	0.07	0.37	<0.05	352
W870594		1.9	0.32	1.3	5.4	1.02	3.0	1.92	<1	139.0	<0.1	0.51	<0.05	0.33	<0.05	392
W870595		2.1	0.31	1.6	5.7	0.97	1.9	1.93	<1	120.0	<0.1	0.49	0.05	0.33	<0.05	387
W870596		2.5	0.37	1.6	6.2	1.09	3.4	2.03	<1	122.0	<0.1	0.52	0.18	0.34	0.09	357
W870597		2.7	0.36	2.3	6.6	1.23	4.3	2.25	<1	130.0	0.1	0.56	0.08	0.37	0.23	346
W870598		2.5	0.34	1.9	6.3	1.20	3.8	2.28	<1	155.5	<0.1	0.57	0.09	0.36	0.35	383
W870599		1.4	0.27	0.9	4.5	0.82	2.5	1.70	<1	132.5	<0.1	0.46	<0.05	0.27	<0.05	344
W870600		1.1	0.27	0.8	3.7	0.62	3.8	1.36	<1	92.0	<0.1	0.37	<0.05	0.27	<0.05	373

***** 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: 9-MAR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18042507

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
W870561		20	21.8	2.44	115	0.8	0.05	0.007	0.011	<0.001	0.13	<0.2	<0.01	0.05	<0.5	0.5
W870562		3	14.1	1.33	74	43.1	0.32	0.122	0.052	0.015	1.36	12.4	1.16	0.06	2.7	1.4
W870563		1	14.0	1.54	15	0.2	0.02	<0.005	0.008	<0.001	<0.05	0.2	0.01	<0.02	<0.5	0.7
W870564		6	14.3	1.56	18	0.3	0.02	<0.005	0.008	0.001	<0.05	<0.2	0.01	<0.02	<0.5	1.3
W870565		1	16.1	1.71	29	0.4	0.03	<0.005	0.007	<0.001	<0.05	0.2	0.02	<0.02	<0.5	0.6
W870566		<1	19.6	2.11	36	0.5	0.03	0.005	0.009	<0.001	<0.05	0.6	0.03	<0.02	<0.5	1.4
W870567		8	18.7	2.05	32	0.3	0.02	<0.005	0.011	0.001	<0.05	0.2	0.02	<0.02	<0.5	0.9
W870568		2	18.6	1.98	25	0.4	0.02	<0.005	0.010	<0.001	<0.05	<0.2	0.04	<0.02	<0.5	1.1
W870569		3	17.7	2.03	30	0.2	0.01	<0.005	0.009	0.001	<0.05	<0.2	<0.01	<0.02	<0.5	1.5
W870570		10	14.1	1.60	28	0.6	0.03	<0.005	0.009	0.001	<0.05	0.2	<0.01	<0.02	<0.5	0.8
W870571		1	17.9	2.03	30	0.3	0.02	0.005	0.009	<0.001	<0.05	<0.2	0.01	<0.02	<0.5	0.9
W870572		2	18.2	1.97	40	0.4	0.01	<0.005	0.008	0.001	<0.05	0.2	0.01	<0.02	<0.5	1.3
W870573		3	15.8	1.77	22	0.4	0.01	<0.005	0.008	<0.001	<0.05	<0.2	<0.01	<0.02	<0.5	1.2
W870574		4	15.3	1.74	17	0.5	0.01	<0.005	0.008	0.001	<0.05	0.3	0.01	<0.02	<0.5	1.3
W870575		1	14.0	1.61	13	0.2	0.02	<0.005	0.009	0.001	<0.05	0.2	0.01	<0.02	<0.5	1.0
W870576		2	13.8	1.57	12	0.5	0.02	<0.005	0.009	0.008	<0.05	0.3	0.02	<0.02	<0.5	1.0
W870577		3	13.7	1.62	13	0.2	<0.01	<0.005	0.009	0.001	<0.05	0.2	0.01	<0.02	<0.5	1.1
W870578		2	16.5	1.81	15	0.8	0.01	<0.005	0.011	0.001	<0.05	0.4	<0.01	<0.02	<0.5	0.7
W870579		2	15.8	1.83	15	0.3	0.01	<0.005	0.010	0.001	<0.05	0.2	0.01	0.02	<0.5	1.3
W870580		<1	15.5	1.60	12	0.6	0.01	<0.005	0.009	0.001	<0.05	0.2	0.01	<0.02	<0.5	1.4
W870581		4	13.1	1.16	93	3.5	0.82	0.010	0.070	0.006	0.33	5.0	0.59	0.10	2.1	1.4
W870582		<1	15.5	1.70	12	0.3	0.01	<0.005	0.010	<0.001	<0.05	0.4	0.01	<0.02	<0.5	1.2
W870583		3	14.9	1.62	32	0.4	0.02	<0.005	0.010	0.001	<0.05	0.3	0.01	<0.02	<0.5	1.2
W870584		1	16.2	1.79	14	0.1	0.01	<0.005	0.010	0.001	<0.05	0.4	<0.01	<0.02	<0.5	1.3
W870585		1	18.2	1.82	14	0.2	0.01	<0.005	0.012	<0.001	<0.05	0.3	0.01	<0.02	<0.5	1.4
W870586		<1	19.4	1.93	17	<0.1	0.01	<0.005	0.009	0.001	<0.05	0.4	0.02	<0.02	<0.5	1.4
W870587		1	16.4	1.87	12	0.5	0.02	<0.005	0.011	0.002	<0.05	0.4	0.01	<0.02	<0.5	1.4
W870588		1	16.9	1.83	13	0.3	0.02	<0.005	0.008	<0.001	<0.05	0.4	0.01	<0.02	<0.5	1.3
W870589		1	15.4	1.79	11	0.2	0.02	<0.005	0.011	0.001	<0.05	<0.2	<0.01	<0.02	<0.5	1.2
W870590		1	20.1	2.18	27	0.6	0.02	<0.005	0.009	<0.001	<0.05	0.3	0.02	<0.02	<0.5	0.8
W870591		1	18.0	1.87	30	0.3	0.01	<0.005	0.009	0.001	<0.05	0.2	0.01	0.02	<0.5	1.3
W870592		1	18.8	2.03	48	0.4	0.02	<0.005	0.012	0.001	<0.05	<0.2	0.02	0.03	<0.5	1.0
W870593		68	20.8	2.18	33	0.3	0.10	<0.005	0.010	0.001	<0.05	0.4	0.14	<0.02	<0.5	1.1
W870594		1	20.3	2.28	26	1.1	0.01	0.006	0.010	0.001	<0.05	0.3	0.02	<0.02	<0.5	1.2
W870595		1	19.1	2.16	33	0.3	0.01	0.009	0.009	0.001	<0.05	<0.2	0.02	<0.02	<0.5	1.4
W870596		7	20.2	2.20	34	0.5	0.02	0.008	0.013	0.001	<0.05	0.2	0.01	<0.02	<0.5	1.1
W870597		54	22.3	2.46	43	0.5	0.03	0.017	0.010	0.001	<0.05	0.3	0.04	<0.02	<0.5	1.2
W870598		37	20.7	2.18	38	0.6	0.02	0.010	0.012	0.001	<0.05	0.2	0.02	<0.02	<0.5	1.1
W870599		4	16.8	1.78	19	0.4	0.02	<0.005	0.013	0.001	<0.05	0.2	0.01	<0.02	<0.5	1.4
W870600		1	15.0	1.77	15	0.3	0.02	<0.005	0.015	0.001	<0.05	0.3	0.02	<0.02	<0.5	1.5

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

Finalized Date: 9-MAR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18042507

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
W870561		13	93	10	3	9	14	16	62	0.001	<0.005	0.001	0.025
W870562		150	5580	40	3	2170	8	25	80	0.087	0.716	0.370	10.55
W870563		55	124	10	1	115	4	43	104	<0.001	<0.005	0.003	0.275
W870564		49	97	10	1	101	<2	40	92	<0.001	<0.005	<0.001	0.197
W870565		48	77	10	<1	126	3	41	93	0.001	<0.005	0.011	0.136
W870566		55	319	10	1	152	4	43	108	0.006	0.012	0.053	0.478
W870567		55	148	10	2	139	3	45	112	<0.001	<0.005	0.025	0.286
W870568		56	104	10	<1	125	<2	46	108	<0.001	<0.005	0.001	0.259
W870569		53	116	10	1	113	4	43	94	<0.001	<0.005	0.001	0.206
W870570		47	141	20	<1	110	4	38	89	<0.001	<0.005	<0.001	0.309
W870571		52	106	20	1	127	<2	44	109	<0.001	<0.005	<0.001	0.188
W870572		50	94	10	<1	107	3	42	93	0.001	<0.005	<0.001	0.166
W870573		53	119	10	1	124	<2	45	96	0.004	<0.005	0.005	0.174
W870574		55	115	10	1	126	<2	42	96	<0.001	<0.005	0.002	0.249
W870575		57	141	10	1	115	<2	41	101	0.003	0.006	0.010	0.279
W870576		57	164	10	4	129	<2	41	99	<0.001	<0.005	0.004	0.369
W870577		54	142	10	1	131	<2	43	97	<0.001	<0.005	<0.001	0.308
W870578		55	144	10	1	130	5	46	98	<0.001	<0.005	0.001	0.290
W870579		55	120	10	<1	117	<2	42	101	<0.001	<0.005	0.002	0.282
W870580		54	141	10	<1	116	2	42	102	<0.001	<0.005	<0.001	0.314
W870581		118	4600	20	5	4480	25	12	107	0.102	0.290	0.620	4.26
W870582		57	157	10	1	120	5	46	107	0.001	<0.005	<0.001	0.352
W870583		55	111	20	1	116	5	38	105	<0.001	<0.005	0.001	0.306
W870584		53	105	10	<1	111	<2	44	103	<0.001	<0.005	<0.001	0.242
W870585		56	143	10	<1	121	<2	38	107	<0.001	<0.005	<0.001	0.312
W870586		54	123	10	<1	119	2	46	100	<0.001	<0.005	<0.001	0.306
W870587		57	113	20	<1	125	<2	38	105	0.001	<0.005	<0.001	0.284
W870588		58	139	20	1	123	<2	45	108	<0.001	<0.005	<0.001	0.338
W870589		57	104	20	<1	126	5	31	109	<0.001	<0.005	<0.001	0.248
W870590		58	110	10	<1	152	<2	48	108	<0.001	<0.005	0.001	0.206
W870591		56	110	10	<1	125	5	44	105	<0.001	<0.005	<0.001	0.206
W870592		50	115	10	<1	105	4	39	90	<0.001	<0.005	0.001	0.215
W870593		61	240	10	1	154	2	43	91	0.004	0.062	0.125	0.558
W870594		55	115	10	<1	127	4	45	103	<0.001	<0.005	0.001	0.163
W870595		57	131	10	<1	139	<2	48	114	<0.001	<0.005	0.001	0.225
W870596		54	128	10	1	117	<2	45	97	<0.001	<0.005	0.001	0.187
W870597		52	136	10	<1	119	<2	41	96	<0.001	<0.005	0.014	0.323
W870598		50	80	10	<1	119	<2	45	101	<0.001	<0.005	0.001	0.176
W870599		55	111	20	<1	117	<2	46	108	<0.001	<0.005	0.002	0.188
W870600		57	119	20	<1	108	<2	38	106	0.001	0.009	0.009	0.325

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

Finalized Date: 9-MAR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18042507

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
W870601		0.04	61.7	16.50	5.99	6.21	2.77	3.28	1.46	<0.01	0.49	0.12	0.15	0.06	0.07	0.96
W870602		2.59	47.6	14.85	13.50	12.75	5.80	1.81	0.24	0.03	0.96	0.25	0.06	0.01	0.01	1.18
W870603		2.51	49.2	14.80	13.00	11.75	6.03	1.97	0.21	0.04	0.96	0.24	0.06	0.01	0.01	1.09
W870604		2.45	47.3	14.85	14.45	11.45	8.05	1.75	0.22	0.04	0.97	0.23	0.05	0.01	<0.01	1.15
W870605		2.50	46.8	14.65	14.05	11.45	7.55	1.84	0.15	0.03	0.96	0.23	0.06	0.01	<0.01	1.17
W870606		2.47	46.4	14.60	13.60	12.50	6.36	1.88	0.16	0.04	0.99	0.24	0.08	0.01	<0.01	1.45
W870607		2.48	47.3	14.75	14.10	11.15	7.60	1.93	0.21	0.04	0.96	0.23	0.07	0.01	<0.01	1.36
W870608		2.36	47.5	14.75	14.25	11.15	7.55	1.99	0.18	0.04	0.96	0.23	0.05	0.01	<0.01	1.00
W870609		2.52	47.8	14.90	14.20	11.80	6.98	1.99	0.15	0.04	0.95	0.24	0.05	0.01	<0.01	1.17
W870610		2.56	48.3	14.95	13.35	14.65	5.04	1.73	0.24	0.03	0.97	0.26	0.08	0.01	0.01	1.87
W870611		2.32	51.4	16.15	12.85	9.03	5.33	3.12	0.44	0.01	0.88	0.19	0.17	0.03	0.02	1.07
W870612		2.53	47.3	14.95	13.55	12.25	6.64	2.05	0.13	0.04	1.00	0.24	0.05	0.01	0.01	0.79
W870613		2.26	49.7	15.25	13.10	11.10	7.25	1.82	0.38	0.04	0.95	0.23	0.05	0.01	0.01	1.27
W870614		2.52	48.8	15.05	12.95	12.35	6.07	1.95	0.32	0.03	0.95	0.23	0.06	0.02	0.01	1.29
W870615		2.45	53.5	15.50	10.70	9.34	4.16	2.70	1.12	0.02	0.78	0.22	0.10	0.02	0.01	1.24
W870616		1.79	49.0	14.85	13.20	10.75	6.93	2.10	0.56	0.03	0.89	0.23	0.03	0.02	0.01	1.24
W870617		1.88	46.6	15.00	12.95	12.95	5.20	2.05	0.29	0.04	0.99	0.27	0.06	0.02	0.01	1.68
W870618		1.88	54.8	16.10	11.20	7.46	4.12	3.50	0.69	<0.01	0.88	0.16	0.22	0.03	0.02	1.00
W870619		1.67	57.2	15.95	10.85	6.18	4.27	3.84	0.65	<0.01	0.91	0.16	0.22	0.03	0.02	1.58
W870620		2.28	59.5	15.85	9.75	6.20	2.91	3.64	1.24	<0.01	0.93	0.13	0.29	0.04	0.04	0.86
W870621		0.08	42.0	9.19	15.15	16.15	10.95	0.60	0.22	0.11	0.69	0.14	0.11	0.01	0.03	4.10
W870622		2.23	61.7	15.40	8.75	5.57	2.12	3.83	1.40	<0.01	0.94	0.12	0.27	0.04	0.05	0.57
W870623		2.45	61.7	15.55	8.77	5.47	2.12	3.76	1.54	<0.01	0.96	0.12	0.30	0.04	0.05	0.44
W870624		2.56	62.7	15.55	8.51	5.26	1.98	3.77	1.55	<0.01	0.93	0.12	0.28	0.03	0.06	0.46
W870625		1.26	42.7	11.75	22.2	9.88	6.66	1.41	0.54	0.01	1.11	0.20	0.16	0.03	0.01	2.44
W870626		1.16	31.1	9.87	37.0	7.23	5.35	1.02	0.28	0.01	1.35	0.18	0.02	0.03	0.01	4.66
W870627		1.86	41.7	14.75	20.8	10.65	5.61	1.78	0.42	0.02	1.46	0.19	0.02	0.05	0.02	1.90
W870628		2.65	48.2	15.90	12.45	12.20	5.00	2.33	0.40	0.04	0.86	0.17	0.04	0.04	0.01	1.63
W870629		3.01	47.4	14.45	13.05	13.85	6.11	1.89	0.17	0.03	0.85	0.25	0.04	0.01	0.01	1.06
W870630		2.50	49.4	15.85	13.55	12.25	5.62	2.84	0.17	0.04	1.14	0.26	0.03	0.02	0.01	0.62
W870631		2.60	48.4	15.40	14.00	11.80	6.30	2.44	0.36	0.04	1.02	0.27	0.03	0.02	0.01	1.05
W870632		2.52	47.2	15.15	14.30	13.00	6.00	2.19	0.19	0.04	0.98	0.28	0.03	0.02	0.01	1.10
W870633		2.64	47.9	15.50	13.40	12.85	5.75	2.42	0.17	0.04	1.03	0.26	0.02	0.01	<0.01	0.87
W870634		2.53	48.0	15.80	13.95	12.70	5.84	2.28	0.21	0.04	1.04	0.26	0.03	0.01	<0.01	0.81
W870635		2.51	49.4	15.70	13.20	12.60	5.54	2.54	0.15	0.04	1.02	0.26	0.01	0.01	<0.01	0.74
W870636		2.42	48.3	15.20	13.40	13.05	5.66	2.21	0.13	0.04	0.96	0.26	0.01	0.01	0.01	0.96
W870637		2.40	46.9	15.35	12.45	13.55	5.02	2.41	0.18	0.04	0.96	0.24	0.01	0.02	0.01	3.72
W870638		0.09	47.0	13.00	20.6	6.24	6.73	2.13	0.62	0.03	1.23	0.19	0.16	0.03	0.02	1.14

***** 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: 9-MAR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18042507

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
W870601		99.76	0.04	0.01	628	30.4	20	0.74	4.14	2.80	1.06	18.0	4.21	<5	3.8	0.84
W870602		99.05	0.18	0.08	50.5	6.7	240	0.41	2.94	1.99	0.83	18.3	2.40	<5	0.9	0.63
W870603		99.37	0.12	0.05	48.3	5.2	280	0.49	2.94	1.96	0.79	18.0	2.34	<5	0.8	0.61
W870604		100.52	0.08	0.04	42.8	4.0	270	0.65	2.68	1.81	0.81	17.5	2.26	<5	0.8	0.58
W870605		98.95	0.13	0.02	34.0	4.8	260	0.39	2.97	1.95	0.76	17.6	2.49	<5	0.8	0.64
W870606		98.31	0.19	0.07	32.1	5.9	260	0.53	3.06	2.09	0.82	17.0	2.49	<5	0.9	0.67
W870607		99.71	0.09	0.04	31.1	5.0	270	0.86	2.81	1.88	0.82	16.9	2.41	<5	0.8	0.66
W870608		99.66	0.08	0.05	29.0	4.8	260	0.44	2.87	1.83	0.83	17.3	2.28	<5	0.7	0.59
W870609		100.28	0.13	0.17	37.1	5.5	270	0.49	3.06	2.09	0.86	18.1	2.61	<5	0.9	0.69
W870610		101.49	0.31	0.12	73.0	8.8	240	0.38	3.34	2.25	0.93	19.4	2.86	<5	1.2	0.72
W870611		100.69	0.08	0.12	168.5	28.7	60	0.70	3.10	2.17	1.12	20.1	3.19	<5	2.2	0.67
W870612		99.01	0.13	0.06	47.0	3.8	260	0.35	2.57	1.86	0.73	16.4	2.22	<5	0.6	0.58
W870613		101.16	0.10	0.07	64.4	5.9	260	1.25	2.97	1.91	0.77	17.5	2.39	<5	0.9	0.62
W870614		100.08	0.14	0.03	51.4	5.9	250	0.55	2.88	1.87	0.77	17.3	2.43	<5	0.9	0.68
W870615		99.41	0.10	0.04	98.3	15.2	150	2.56	2.80	1.78	0.76	18.0	2.56	<5	1.8	0.57
W870616		99.84	0.08	0.05	71.4	6.7	230	1.89	2.62	1.64	0.78	17.4	2.14	<5	0.8	0.54
W870617		98.11	0.21	0.07	67.2	5.1	260	0.42	3.12	2.01	0.87	17.9	2.62	<5	0.9	0.66
W870618		100.18	0.06	0.09	229	46.7	30	0.88	3.63	2.14	1.29	20.7	4.02	<5	3.6	0.68
W870619		101.86	0.05	0.10	232	55.0	20	1.66	3.85	2.34	1.43	21.4	4.07	<5	4.3	0.75
W870620		101.38	0.07	0.07	401	69.7	20	1.30	3.94	2.29	1.40	22.0	4.78	<5	5.0	0.81
W870621		99.45	0.24	2.63	282	20.2	790	0.42	2.59	1.52	0.73	11.6	2.72	<5	2.1	0.54
W870622		100.76	0.04	0.06	395	68.6	20	1.33	3.72	2.18	1.26	19.8	4.55	<5	5.1	0.72
W870623		100.82	0.01	0.06	485	76.6	20	1.53	4.20	2.39	1.50	22.8	5.09	<5	5.8	0.85
W870624		101.20	0.02	0.06	554	85.0	20	3.00	4.70	2.56	1.58	25.7	5.51	<5	6.5	0.92
W870625		99.10	0.05	4.46	129.0	16.3	50	1.80	2.42	1.36	0.75	16.2	2.63	<5	0.9	0.48
W870626		98.11	0.02	11.85	98.8	7.9	70	1.63	1.30	0.80	0.57	18.6	1.48	<5	0.6	0.28
W870627		99.37	0.06	3.22	128.5	8.4	140	1.72	1.60	0.90	0.67	20.1	1.75	<5	0.7	0.31
W870628		99.27	0.17	0.71	121.5	11.7	260	0.89	1.82	1.13	0.69	18.6	1.87	<5	0.8	0.36
W870629		99.17	0.11	0.33	52.9	6.7	240	0.69	2.95	1.87	0.70	18.4	2.43	<5	1.0	0.64
W870630		101.80	0.10	0.16	79.2	5.2	280	0.41	2.46	1.56	0.73	18.4	2.15	<5	0.7	0.54
W870631		101.14	0.10	0.16	77.7	6.1	280	1.08	2.46	1.44	0.80	17.1	2.08	<5	0.7	0.48
W870632		100.49	0.10	0.13	49.1	4.3	280	0.51	2.60	1.70	0.70	19.1	2.09	<5	0.7	0.54
W870633		100.22	0.14	0.14	36.9	3.8	280	0.49	2.52	1.70	0.77	18.4	2.13	<5	0.8	0.57
W870634		100.97	0.10	0.09	36.9	3.4	280	0.55	2.62	1.54	0.71	17.9	2.13	<5	0.7	0.58
W870635		101.21	0.13	0.06	37.9	3.0	270	0.19	2.57	1.70	0.71	18.1	2.05	<5	0.6	0.59
W870636		100.20	0.17	0.05	48.8	3.9	250	0.38	2.86	1.85	0.75	18.4	2.26	<5	0.9	0.64
W870637		100.86	0.59	0.05	56.0	3.6	240	0.44	2.62	1.73	0.71	17.2	2.18	<5	0.8	0.60
W870638		99.12	0.08	1.76	201	25.9	230	0.83	2.45	1.31	1.01	16.3	2.72	<5	2.1	0.50

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

Finalized Date: 9-MAR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18042507

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
W870601		13.5	0.42	3.4	17.9	4.09	28.8	3.98	1	546	0.2	0.67	3.28	0.42	1.41	166
W870602		2.6	0.26	2.2	5.4	1.07	4.0	1.92	<1	122.0	0.1	0.48	0.37	0.29	0.35	342
W870603		1.8	0.27	2.2	4.6	0.91	4.5	1.70	<1	136.5	0.2	0.42	0.46	0.30	0.55	353
W870604		1.3	0.26	0.7	4.1	0.71	5.7	1.39	<1	152.0	<0.1	0.42	0.13	0.28	0.10	389
W870605		1.6	0.30	1.0	4.6	0.87	3.8	1.73	<1	121.0	<0.1	0.45	0.05	0.30	<0.05	369
W870606		2.0	0.29	1.3	5.7	1.02	3.3	1.81	<1	146.0	<0.1	0.46	<0.05	0.31	<0.05	357
W870607		1.8	0.30	1.1	5.0	0.88	5.8	1.70	<1	149.0	<0.1	0.47	0.05	0.29	0.07	374
W870608		1.7	0.29	0.8	4.6	0.80	3.5	1.65	<1	155.5	<0.1	0.46	0.11	0.28	0.05	371
W870609		2.0	0.30	0.9	5.1	0.92	3.4	2.03	<1	140.0	<0.1	0.46	0.08	0.34	0.39	379
W870610		3.4	0.32	1.8	7.1	1.35	5.7	2.20	<1	155.0	0.1	0.52	0.24	0.33	0.18	358
W870611		12.8	0.30	3.3	15.6	3.69	12.0	3.49	1	280	0.1	0.54	1.69	0.31	0.39	225
W870612		1.2	0.27	0.5	4.1	0.69	3.7	1.57	<1	108.0	<0.1	0.41	<0.05	0.26	<0.05	357
W870613		2.1	0.29	1.9	5.2	0.94	18.7	1.75	<1	114.5	0.1	0.45	1.15	0.31	1.00	358
W870614		2.3	0.27	1.4	5.3	0.99	11.0	1.72	<1	163.0	<0.1	0.45	0.29	0.30	0.15	347
W870615		6.8	0.27	2.8	9.1	2.07	63.5	2.29	<1	151.5	0.1	0.44	3.09	0.26	1.98	238
W870616		2.7	0.24	1.2	5.2	0.95	29.2	1.56	1	159.5	<0.1	0.39	0.96	0.24	0.46	306
W870617		1.8	0.27	0.9	5.2	0.90	8.6	1.85	<1	178.5	<0.1	0.47	0.11	0.30	<0.05	377
W870618		21.7	0.32	5.1	22.8	5.71	18.0	4.40	1	306	0.3	0.61	3.39	0.32	0.74	180
W870619		26.0	0.31	6.3	25.9	6.76	16.8	4.69	1	288	0.3	0.68	4.32	0.32	0.89	177
W870620		33.8	0.32	10.9	30.9	8.28	33.5	5.88	1	321	0.5	0.70	5.24	0.32	1.07	151
W870621		9.6	0.19	6.7	10.7	2.55	4.9	2.74	2	63.5	0.4	0.42	2.02	0.21	1.01	182
W870622		34.1	0.29	8.0	29.2	7.85	34.5	5.21	1	280	0.5	0.63	5.34	0.28	1.15	112
W870623		37.3	0.33	9.2	32.3	8.86	42.4	6.07	1	331	0.6	0.74	6.05	0.33	1.32	131
W870624		40.8	0.35	10.8	36.5	10.00	53.5	6.82	1	365	0.7	0.80	7.31	0.38	2.07	135
W870625		6.6	0.17	1.8	10.6	2.41	16.4	2.76	<1	294	0.1	0.40	0.91	0.19	0.23	447
W870626		3.3	0.11	1.8	5.3	1.18	10.9	1.35	<1	290	0.1	0.21	0.28	0.11	0.11	781
W870627		3.6	0.12	1.5	6.1	1.19	12.2	1.50	<1	394	0.1	0.25	0.33	0.12	0.10	754
W870628		5.3	0.16	1.3	6.7	1.56	9.4	1.76	1	360	0.1	0.30	0.97	0.15	0.25	402
W870629		2.3	0.27	2.0	5.4	1.10	5.1	1.83	<1	121.5	0.2	0.43	0.25	0.28	0.09	317
W870630		2.1	0.22	1.1	4.5	0.84	3.7	1.58	<1	218	0.1	0.39	0.13	0.21	0.06	409
W870631		2.5	0.21	1.0	4.6	0.90	7.7	1.52	<1	181.5	0.1	0.36	0.17	0.20	0.07	398
W870632		1.4	0.24	0.9	4.2	0.73	4.2	1.55	1	164.5	0.1	0.40	0.12	0.23	0.07	363
W870633		1.2	0.24	0.6	3.9	0.67	4.0	1.42	<1	128.5	<0.1	0.39	0.07	0.20	<0.05	384
W870634		1.1	0.22	0.6	3.8	0.68	3.6	1.60	<1	141.0	<0.1	0.40	<0.05	0.24	0.07	385
W870635		0.9	0.26	0.3	3.4	0.54	1.2	1.51	<1	141.5	<0.1	0.40	<0.05	0.22	<0.05	361
W870636		1.2	0.27	0.5	4.2	0.70	1.9	1.64	<1	135.0	<0.1	0.41	<0.05	0.27	<0.05	328
W870637		1.2	0.26	0.5	3.9	0.70	4.9	1.40	1	184.5	<0.1	0.38	<0.05	0.24	<0.05	317
W870638		11.7	0.19	6.8	12.8	3.26	15.5	2.64	3	241	0.4	0.41	1.56	0.20	0.73	114

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

Finalized Date: 9-MAR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18042507

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
W870601		5	24.9	2.88	135	0.9	0.05	<0.005	0.012	<0.001	0.14	<0.2	<0.01	0.05	<0.5	0.5
W870602		1	17.5	1.92	26	0.6	0.02	<0.005	0.014	0.001	<0.05	0.4	0.02	<0.02	<0.5	1.2
W870603		1	16.8	1.92	21	0.3	0.02	<0.005	0.009	0.001	<0.05	0.3	0.03	<0.02	<0.5	1.2
W870604		9	15.5	1.75	21	0.3	0.02	<0.005	0.011	0.002	<0.05	<0.2	0.01	<0.02	<0.5	1.0
W870605		1	16.9	1.86	21	0.5	0.01	<0.005	0.009	0.005	<0.05	<0.2	0.02	<0.02	<0.5	0.7
W870606		4	18.2	2.00	24	0.4	0.01	<0.005	0.010	0.001	<0.05	<0.2	0.03	<0.02	<0.5	1.4
W870607		1	16.9	2.06	19	0.2	0.01	<0.005	0.010	0.002	<0.05	<0.2	0.01	0.02	<0.5	1.4
W870608		1	16.4	1.84	18	0.3	0.01	<0.005	0.011	0.001	<0.05	<0.2	0.02	<0.02	<0.5	0.9
W870609		6	18.7	2.08	22	0.5	0.02	<0.005	0.011	0.001	<0.05	0.6	0.04	0.02	<0.5	1.6
W870610		14	20.1	2.19	38	0.9	0.05	<0.005	0.010	0.001	<0.05	0.3	0.03	<0.02	<0.5	1.4
W870611		1	19.2	2.20	85	0.7	0.03	<0.005	0.016	<0.001	<0.05	0.3	0.02	0.03	<0.5	0.7
W870612		1	15.6	1.73	15	0.8	0.02	<0.005	0.009	0.002	<0.05	0.3	0.03	<0.02	<0.5	1.2
W870613		1	17.4	1.85	20	2.6	0.07	<0.005	0.010	0.001	0.07	0.4	0.02	0.02	<0.5	1.3
W870614		1	17.1	1.91	29	1.1	0.03	<0.005	0.007	0.002	<0.05	<0.2	0.01	<0.02	<0.5	1.2
W870615		3	16.1	1.79	53	0.5	0.04	<0.005	0.010	0.001	<0.05	<0.2	0.01	0.10	<0.5	0.5
W870616		1	14.8	1.58	18	0.5	0.04	<0.005	0.009	0.001	<0.05	<0.2	0.02	0.06	<0.5	0.7
W870617		1	17.5	1.85	23	0.4	0.01	<0.005	0.009	0.001	<0.05	<0.2	0.02	<0.02	<0.5	1.0
W870618		2	20.3	2.04	142	0.3	0.02	<0.005	0.017	0.001	<0.05	<0.2	0.02	0.08	<0.5	0.6
W870619		1	21.4	2.13	172	0.3	0.02	<0.005	0.022	0.001	<0.05	<0.2	0.01	0.06	<0.5	<0.5
W870620		24	21.4	2.02	209	0.2	0.02	<0.005	0.017	0.001	<0.05	0.4	0.01	0.15	<0.5	0.8
W870621		1	14.1	1.32	76	40.6	0.31	0.125	0.054	0.019	1.28	12.0	1.29	0.06	2.9	2.6
W870622		<1	19.5	1.79	216	0.3	0.02	<0.005	0.022	<0.001	<0.05	<0.2	0.01	0.19	<0.5	0.6
W870623		<1	22.4	2.06	249	0.1	0.03	<0.005	0.020	0.001	<0.05	<0.2	0.01	0.22	<0.5	0.7
W870624		<1	24.9	2.25	278	0.4	0.05	<0.005	0.022	0.001	<0.05	<0.2	0.01	0.24	<0.5	0.6
W870625		<1	11.8	1.06	31	0.9	0.29	<0.005	0.019	0.011	<0.05	7.6	0.60	0.22	2.0	2.0
W870626		<1	6.8	0.70	21	1.1	0.58	<0.005	0.017	0.029	<0.05	18.9	0.99	0.42	2.0	1.4
W870627		<1	7.8	0.74	18	0.7	0.37	<0.005	0.018	0.007	<0.05	5.6	0.78	0.15	1.6	1.8
W870628		7	9.8	1.02	25	0.9	0.10	<0.005	0.009	0.001	<0.05	1.7	0.29	0.03	0.8	1.1
W870629		1	16.3	1.69	28	0.7	0.02	<0.005	0.009	<0.001	<0.05	0.5	0.04	0.02	<0.5	1.6
W870630		<1	13.6	1.38	18	0.6	0.02	<0.005	0.009	0.002	<0.05	0.3	0.01	<0.02	<0.5	0.8
W870631		<1	12.7	1.31	20	0.5	0.04	<0.005	0.009	0.001	<0.05	0.5	0.09	0.03	<0.5	1.4
W870632		<1	14.3	1.37	19	0.6	0.02	<0.005	0.010	0.001	<0.05	0.4	0.01	<0.02	<0.5	1.5
W870633		<1	13.8	1.49	23	0.3	0.02	<0.005	0.008	0.001	<0.05	0.3	0.02	<0.02	<0.5	1.0
W870634		7	13.6	1.37	17	0.4	0.02	<0.005	0.010	0.002	<0.05	0.4	0.02	<0.02	<0.5	1.1
W870635		<1	14.3	1.56	13	<0.1	0.02	<0.005	0.010	0.001	<0.05	0.2	<0.01	<0.02	<0.5	0.8
W870636		<1	15.7	1.66	23	0.4	0.01	<0.005	0.008	0.002	<0.05	<0.2	0.02	<0.02	<0.5	1.0
W870637		1	14.6	1.44	19	0.3	0.01	<0.005	0.012	<0.001	<0.05	<0.2	<0.01	<0.02	<0.5	1.0
W870638		2	12.8	1.09	91	4.1	1.10	<0.005	0.063	0.006	0.31	5.4	0.80	0.10	2.1	1.7

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

ALS Canada Ltd.

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Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

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

Finalized Date: 9-MAR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18042507

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
W870601		14	98	10	3	9	8	17	64	<0.001	<0.005	0.001	0.029
W870602		54	108	10	<1	121	4	43	105	<0.001	<0.005	0.003	0.236
W870603		52	139	10	1	124	<2	44	100	0.001	<0.005	0.009	0.211
W870604		52	105	20	<1	110	<2	32	101	<0.001	<0.005	0.001	0.179
W870605		55	103	20	3	112	2	40	107	0.001	<0.005	0.001	0.098
W870606		53	104	20	<1	114	<2	43	104	<0.001	<0.005	0.002	0.238
W870607		55	109	20	2	112	<2	38	109	0.001	<0.005	<0.001	0.153
W870608		53	117	10	<1	112	<2	33	105	<0.001	<0.005	0.001	0.195
W870609		56	254	10	<1	136	<2	44	104	<0.001	<0.005	0.013	0.468
W870610		50	146	10	<1	111	4	41	101	0.001	<0.005	0.002	0.296
W870611		51	109	20	<1	79	<2	27	106	<0.001	<0.005	0.009	0.205
W870612		55	127	10	1	132	3	44	104	<0.001	<0.005	0.012	0.184
W870613		55	162	20	<1	122	4	41	100	0.002	<0.005	0.001	0.174
W870614		51	106	10	<1	114	<2	43	101	<0.001	<0.005	0.001	0.147
W870615		42	68	20	<1	86	8	32	87	<0.001	<0.005	<0.001	0.117
W870616		47	106	20	<1	102	<2	38	97	<0.001	<0.005	<0.001	0.163
W870617		52	79	20	<1	121	5	46	106	<0.001	<0.005	<0.001	0.153
W870618		40	46	30	<1	48	5	21	102	0.001	<0.005	0.001	0.099
W870619		36	39	50	1	39	3	19	87	<0.001	<0.005	<0.001	0.095
W870620		29	34	20	<1	28	6	15	101	<0.001	<0.005	<0.001	0.066
W870621		157	5790	40	4	2230	9	26	79	0.088	0.712	0.365	11.20
W870622		23	35	30	<1	17	5	14	105	<0.001	<0.005	<0.001	0.050
W870623		25	32	30	<1	16	12	14	107	<0.001	<0.005	<0.001	0.049
W870624		23	45	30	<1	14	10	14	104	<0.001	<0.005	<0.001	0.043
W870625		238	5300	20	1	2260	<2	45	117	0.093	<0.005	0.256	6.88
W870626		529	5650	20	1	5860	6	30	144	0.164	<0.005	0.512	14.95
W870627		220	3960	20	<1	1620	4	44	131	0.096	0.020	0.313	5.17
W870628		66	2370	20	1	377	<2	44	80	0.021	0.034	0.177	1.540
W870629		53	266	10	<1	139	<2	44	100	0.004	0.021	0.026	0.666
W870630		54	161	10	<1	131	4	49	89	<0.001	<0.005	0.001	0.272
W870631		59	139	20	<1	161	<2	48	98	<0.001	0.023	0.120	0.309
W870632		58	118	20	<1	128	7	46	102	<0.001	<0.005	0.001	0.299
W870633		59	153	20	1	142	<2	50	113	0.001	<0.005	0.009	0.223
W870634		56	87	10	<1	136	3	49	125	<0.001	<0.005	0.002	0.165
W870635		56	97	10	<1	128	<2	49	101	<0.001	<0.005	0.001	0.196
W870636		51	106	10	<1	116	2	45	105	<0.001	<0.005	<0.001	0.187
W870637		52	111	30	<1	122	<2	45	92	<0.001	<0.005	0.001	0.151
W870638		118	4590	20	4	4630	19	12	107	0.073	0.303	0.609	4.38

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

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CERTIFICATE OF ANALYSIS TB18042507

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		