ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
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www.alsglobal.com/geochemistry

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

Finalized Date: 7-MAR-2018
Account: NAPEHZEU

CERTIFICATE TB18042500

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 TB18042500

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
W870405		0.04	62.6	16.75	6.13	6.25	2.81	3.31	1.52	<0.01	0.50	0.12	0.15	0.05	0.07	0.98
W870406		0.08	41.5	9.08	15.30	15.75	11.05	0.60	0.25	0.11	0.69	0.14	0.11	<0.01	0.03	3.70
W870407		2.70	45.2	14.55	13.85	11.55	8.98	1.45	0.30	0.04	0.98	0.21	0.06	<0.01	<0.01	1.22
W870408		2.79	46.1	14.95	13.60	10.75	9.83	1.53	0.37	0.04	0.85	0.20	0.04	<0.01	0.01	1.60
W870409		2.63	46.3	14.65	13.35	10.35	10.25	1.57	0.57	0.04	0.76	0.20	0.04	<0.01	0.01	1.83
W870410		2.61	45.9	15.90	11.95	11.75	9.34	1.55	0.65	0.04	0.63	0.19	0.03	0.01	0.01	1.83
W870411		2.67	47.2	14.70	12.00	11.50	9.26	1.52	0.54	0.05	0.58	0.20	0.04	0.01	0.01	1.60
W870412		2.33	47.1	14.85	13.10	10.40	8.84	1.76	0.40	0.04	0.94	0.21	0.06	<0.01	0.01	1.46
W870413		2.40	48.2	14.65	13.95	9.68	9.05	1.86	0.40	0.04	0.99	0.21	0.07	0.01	0.01	1.30
W870414		2.40	49.3	14.60	13.25	10.70	8.69	1.94	0.38	0.03	0.82	0.22	0.07	0.01	0.01	1.22
W870415		2.30	48.9	15.05	13.00	10.70	8.22	2.01	0.27	0.02	0.77	0.21	0.06	0.01	0.01	1.40
W870416		2.39	46.4	15.60	12.90	11.10	8.41	1.83	0.44	0.04	0.78	0.21	0.04	0.01	0.01	1.98
W870417		2.52	46.8	15.95	11.90	10.55	9.64	1.70	0.43	0.05	0.69	0.19	0.04	0.01	0.01	1.96
W870418		2.34	45.6	16.15	11.70	11.05	8.89	1.68	0.29	0.05	0.76	0.19	0.05	0.01	0.01	1.83
W870419		2.56	49.4	15.35	11.45	11.25	8.06	2.10	0.32	0.05	0.59	0.19	0.07	0.01	0.01	1.49
W870420		2.37	49.9	16.05	10.20	11.10	8.12	2.35	0.21	0.04	0.49	0.18	0.03	0.01	0.01	1.35
W870421		2.27	49.8	15.65	9.99	12.30	8.34	2.03	0.22	0.04	0.46	0.18	0.01	0.01	<0.01	1.00
W870422		2.45	48.9	16.30	11.00	12.15	8.24	1.91	0.29	0.04	0.59	0.19	0.05	0.01	<0.01	1.18
W870423		2.42	46.8	14.65	13.90	12.00	8.85	1.44	0.15	0.04	0.87	0.21	0.05	0.01	<0.01	0.55
W870424		2.54	47.6	14.05	14.50	12.05	9.51	1.43	0.17	0.05	0.86	0.22	0.03	<0.01	<0.01	0.60
W870425		0.09	46.2	12.70	20.9	6.19	6.79	2.17	0.65	0.03	1.23	0.19	0.15	0.03	0.02	1.17
W870426		2.53	47.2	14.50	14.45	11.50	8.54	1.70	0.26	0.04	1.01	0.22	0.07	0.01	<0.01	0.99
W870427		2.51	51.8	16.35	11.05	10.95	5.75	2.67	0.24	0.03	0.73	0.16	0.08	0.01	0.01	1.02
W870428		2.49	51.1	14.75	13.00	9.98	5.64	2.94	0.17	0.02	1.02	0.23	0.11	0.01	0.01	0.94
W870429		2.62	48.0	13.70	14.35	12.75	5.79	2.71	0.16	0.02	1.16	0.27	0.09	0.01	0.01	2.01
W870430		2.54	46.4	13.95	15.75	12.50	6.06	2.29	0.20	0.02	1.20	0.26	0.10	0.01	0.01	0.95
W870431		2.50	49.9	15.80	11.40	10.65	5.04	3.18	0.25	0.02	0.85	0.20	0.10	0.01	0.01	1.35
W870432		2.43	50.1	14.80	12.95	10.40	5.91	3.04	0.19	0.02	1.06	0.22	0.09	0.01	0.01	0.65
W870433		2.16	49.9	13.15	14.45	11.45	5.87	2.45	0.27	0.02	1.13	0.24	0.09	0.01	0.01	0.91
W870434		2.23	48.0	13.25	16.10	10.25	6.34	2.61	0.38	0.02	1.25	0.23	0.09	0.02	0.01	1.12
W870435		2.20	49.4	12.45	15.70	9.74	6.84	2.33	0.22	0.02	1.25	0.24	0.08	0.01	<0.01	0.71
W870436		2.35	46.2	13.55	16.85	9.87	7.81	2.45	0.27	0.02	1.28	0.24	0.08	0.01	0.01	1.06
W870437		2.41	46.3	13.00	15.90	9.84	7.35	2.54	0.34	0.02	1.27	0.23	0.09	0.01	0.01	1.13
W870438		2.30	46.4	13.85	16.45	9.82	7.96	2.45	0.23	0.02	1.19	0.24	0.09	0.01	<0.01	0.69
W870439		2.52	46.4	14.30	15.75	10.35	7.98	2.31	0.25	0.02	1.07	0.23	0.07	0.01	0.01	1.00
W870440		2.49	51.4	14.05	13.10	8.88	6.44	2.92	0.23	0.02	0.88	0.20	0.05	0.01	<0.01	1.25
W870441		2.35	47.6	13.00	16.60	9.19	7.52	2.57	0.28	0.02	1.21	0.25	0.07	0.01	<0.01	1.65
W870442		2.42	48.6	12.55	15.75	10.15	6.79	2.50	0.18	0.02	1.20	0.22	0.07	0.01	<0.01	1.26
W870443		2.34	47.6	12.80	16.80	9.42	7.46	2.48	0.30	0.02	1.26	0.24	0.08	0.01	<0.01	1.32
W870444		2.33	50.4	12.50	16.20	9.01	7.26	2.55	0.22	0.02	1.22	0.22	0.08	0.01	<0.01	1.29

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Finalized Date: 7-MAR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18042500

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
W870405		101.24	0.04	0.02	602	29.3	10	0.74	3.85	2.50	1.01	16.5	3.97	<5	3.8	0.86
W870406		98.31	0.24	2.64	299	20.0	770	0.39	2.63	1.54	0.82	11.6	2.92	<5	2.0	0.55
W870407		98.39	0.12	0.14	39.7	6.1	290	0.63	3.17	2.19	0.80	16.5	3.05	<5	1.0	0.75
W870408		99.87	0.09	0.17	49.0	5.5	280	0.92	2.94	1.90	0.77	16.4	2.64	<5	0.9	0.68
W870409		99.92	0.06	0.18	55.2	5.1	270	2.11	2.57	1.67	0.70	16.4	2.35	<5	0.9	0.61
W870410		99.78	0.12	0.31	73.7	3.9	270	1.51	1.99	1.23	0.49	13.5	1.67	<5	0.7	0.42
W870411		99.21	0.10	0.10	83.5	4.3	410	1.94	2.02	1.33	0.55	15.7	1.79	<5	0.7	0.43
W870412		99.17	0.09	0.10	53.9	4.6	250	1.39	2.44	1.63	0.68	15.3	2.23	<5	0.7	0.54
W870413		100.42	0.08	0.14	55.4	6.8	270	1.67	2.97	1.97	0.74	17.0	2.90	<5	0.9	0.68
W870414		101.24	0.07	0.06	48.9	5.9	200	1.17	2.65	1.69	0.72	16.3	2.51	<5	0.8	0.58
W870415		100.63	0.08	0.21	48.0	6.7	160	1.52	2.98	1.87	0.77	18.4	2.55	<5	0.9	0.67
W870416		99.75	0.08	0.09	63.0	5.3	250	1.15	2.74	1.66	0.67	16.7	2.23	<5	0.8	0.59
W870417		99.92	0.05	0.06	57.4	4.7	320	1.19	2.11	1.30	0.60	14.9	2.03	<5	0.8	0.50
W870418		98.26	0.07	0.07	44.1	4.8	330	1.10	2.37	1.48	0.70	16.1	2.21	<5	0.7	0.55
W870419		100.34	0.08	0.03	50.9	5.7	320	0.72	2.33	1.45	0.56	15.7	2.02	<5	0.9	0.51
W870420		100.04	0.09	0.04	43.3	5.2	310	0.59	1.75	1.25	0.52	16.3	1.69	<5	0.7	0.39
W870421		100.03	0.11	0.02	33.7	4.6	320	0.50	1.71	1.10	0.55	15.5	1.59	<5	0.6	0.40
W870422		100.85	0.10	0.04	38.8	11.9	260	0.64	1.87	1.20	0.69	15.1	1.96	<5	0.5	0.40
W870423		99.52	0.07	0.12	19.1	4.7	280	0.39	2.59	1.72	0.65	15.8	2.44	<5	0.7	0.61
W870424		101.07	0.07	0.10	19.8	5.0	320	0.50	2.88	1.80	0.67	16.6	2.33	<5	0.8	0.62
W870425		98.42	0.07	1.74	226	27.0	240	0.91	2.54	1.50	1.20	16.9	3.06	<5	2.5	0.54
W870426		100.49	0.08	0.11	29.9	6.7	290	0.65	3.41	2.18	0.80	18.5	2.95	<5	1.1	0.75
W870427		100.85	0.12	0.14	50.2	8.3	220	0.51	2.35	1.49	0.81	19.1	2.25	<5	1.2	0.51
W870428		99.92	0.12	0.08	59.1	10.2	140	0.59	3.13	2.07	0.87	19.6	2.95	<5	1.5	0.70
W870429		101.03	0.46	0.02	45.3	10.6	140	0.23	4.01	2.55	1.06	18.6	3.69	<5	1.6	0.90
W870430		99.70	0.19	0.06	47.5	9.3	160	0.32	3.90	2.52	0.96	19.0	3.52	<5	1.4	0.87
W870431		98.76	0.20	0.05	68.6	10.8	170	0.60	2.95	1.94	0.89	22.2	2.82	<5	1.5	0.67
W870432		99.45	0.11	0.10	58.6	14.9	130	0.51	3.58	2.32	1.12	20.1	3.62	<5	1.6	0.76
W870433		99.95	0.12	0.12	49.9	11.1	130	0.35	4.11	2.75	1.06	18.6	3.86	<5	1.7	0.93
W870434		99.67	0.06	0.33	62.7	11.1	140	0.46	3.75	2.47	1.09	17.5	3.61	<5	1.5	0.88
W870435		98.99	0.05	0.18	35.6	8.9	140	0.18	4.15	2.65	1.08	17.1	3.64	<5	1.1	0.96
W870436		99.70	0.09	0.19	44.2	9.1	150	0.35	4.25	2.75	1.06	18.2	3.78	<5	1.4	0.96
W870437		98.03	0.08	0.13	54.3	9.0	130	0.35	4.16	2.68	1.08	17.8	3.77	<5	1.3	0.92
W870438		99.40	0.06	0.09	37.8	9.4	130	0.29	4.25	2.68	1.01	19.0	3.74	<5	1.4	0.96
W870439		99.75	0.07	0.05	46.8	7.5	130	0.62	3.51	2.23	0.88	16.0	3.07	<5	1.2	0.79
W870440		99.43	0.11	0.08	35.3	9.4	100	0.62	3.20	1.76	0.68	14.9	2.74	<5	1.6	0.63
W870441		99.97	0.06	0.14	27.1	7.1	120	0.35	3.51	2.33	0.77	14.0	3.02	<5	1.1	0.74
W870442		99.30	0.02	0.09	18.6	7.9	140	0.27	4.23	2.59	0.95	16.4	3.41	<5	1.2	0.82
W870443		99.79	0.06	0.21	39.8	8.4	150	0.48	4.09	2.75	1.00	16.5	3.79	<5	1.1	0.90
W870444		100.98	0.03	0.13	24.0	7.7	130	0.38	3.88	2.19	0.88	13.7	3.07	<5	1.2	0.73

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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
W870405		13.7	0.41	3.3	17.4	4.11	27.9	3.88	2	521	0.2	0.67	3.05	0.38	1.28	149
W870406		10.0	0.22	6.1	11.0	2.65	5.1	2.54	2	68.7	0.4	0.44	2.06	0.21	1.00	177
W870407		2.0	0.29	2.1	6.0	1.14	7.6	1.99	<1	94.8	0.1	0.53	<0.05	0.30	<0.05	329
W870408		1.8	0.28	1.9	5.4	1.03	11.7	1.97	<1	92.9	0.1	0.46	<0.05	0.28	<0.05	303
W870409		1.6	0.23	1.7	5.0	0.93	18.3	1.64	<1	93.1	0.1	0.42	<0.05	0.26	0.11	292
W870410		1.3	0.18	1.2	3.6	0.71	16.9	1.15	1	90.5	0.1	0.32	0.05	0.19	0.14	205
W870411		1.7	0.19	1.1	3.8	0.72	17.2	1.35	<1	105.5	0.1	0.30	<0.05	0.18	<0.05	248
W870412		1.8	0.23	1.6	4.4	0.81	10.8	1.54	<1	92.7	0.1	0.37	0.05	0.23	0.06	304
W870413		2.6	0.28	2.4	5.9	1.18	11.2	2.01	<1	97.3	0.2	0.51	0.30	0.27	0.11	332
W870414		2.3	0.24	2.1	4.9	0.96	9.0	1.73	<1	93.8	0.2	0.41	0.19	0.24	0.18	293
W870415		2.6	0.28	1.8	5.5	1.12	7.2	1.77	<1	121.5	0.1	0.46	0.10	0.28	0.06	300
W870416		1.9	0.25	1.5	4.9	0.92	12.6	1.64	<1	128.5	0.1	0.43	<0.05	0.24	<0.05	284
W870417		1.7	0.22	1.4	4.1	0.78	12.8	1.33	<1	94.5	0.1	0.36	<0.05	0.19	<0.05	223
W870418		1.7	0.22	1.5	4.4	0.83	7.3	1.63	<1	100.0	0.1	0.40	<0.05	0.23	<0.05	245
W870419		2.3	0.22	1.2	4.5	0.91	9.0	1.43	<1	108.0	0.1	0.36	0.12	0.22	0.05	214
W870420		2.4	0.16	1.0	3.8	0.81	4.5	1.17	<1	112.0	0.1	0.28	0.13	0.16	<0.05	198
W870421		1.9	0.16	1.3	3.8	0.75	4.6	1.13	<1	105.0	0.1	0.26	0.08	0.17	<0.05	202
W870422		5.0	0.16	6.3	7.3	1.76	6.8	1.65	<1	108.5	0.1	0.29	0.51	0.16	0.05	201
W870423		1.6	0.25	1.6	4.7	0.88	3.0	1.61	<1	91.6	0.1	0.42	<0.05	0.23	<0.05	311
W870424		1.7	0.26	1.6	5.0	0.92	3.1	1.82	<1	90.1	0.1	0.43	<0.05	0.27	<0.05	341
W870425		12.7	0.20	7.2	14.1	3.52	16.9	2.97	4	279	0.5	0.44	1.99	0.21	0.55	120
W870426		2.4	0.32	2.3	6.0	1.20	5.2	2.16	<1	106.5	0.1	0.54	0.05	0.33	<0.05	361
W870427		4.0	0.22	1.6	5.6	1.22	4.5	1.56	<1	125.0	0.1	0.38	0.15	0.21	0.10	219
W870428		4.4	0.30	2.8	7.7	1.54	2.4	2.31	<1	119.0	0.2	0.54	0.19	0.28	0.07	325
W870429		4.2	0.38	2.8	8.6	1.74	2.2	2.93	<1	136.5	0.2	0.66	0.11	0.36	<0.05	369
W870430		3.5	0.35	2.6	8.1	1.59	2.7	2.81	<1	128.5	0.2	0.63	0.09	0.37	<0.05	367
W870431		4.9	0.27	2.4	7.6	1.64	5.9	2.28	<1	166.0	0.2	0.50	0.16	0.28	0.06	275
W870432		6.3	0.33	6.8	10.3	2.24	2.9	2.74	<1	149.0	0.2	0.58	0.44	0.33	0.05	338
W870433		4.4	0.39	3.7	9.0	1.83	5.1	2.67	<1	157.5	0.2	0.65	0.19	0.39	0.06	372
W870434		4.2	0.37	4.0	8.9	1.84	9.9	2.76	1	159.5	0.2	0.66	0.23	0.37	0.15	371
W870435		3.0	0.37	3.2	8.2	1.63	2.7	2.72	<1	133.5	0.1	0.69	0.06	0.37	<0.05	398
W870436		3.1	0.39	3.0	8.6	1.58	4.7	2.86	<1	149.5	0.2	0.71	<0.05	0.38	<0.05	412
W870437		3.3	0.38	2.7	8.4	1.58	8.1	2.68	<1	141.0	0.2	0.68	0.05	0.38	<0.05	383
W870438		3.2	0.41	3.1	8.8	1.62	3.5	2.89	<1	165.5	0.2	0.67	<0.05	0.38	<0.05	385
W870439		2.5	0.30	2.5	7.1	1.28	5.8	2.16	<1	148.5	0.1	0.57	0.13	0.34	<0.05	339
W870440		3.6	0.28	3.5	6.8	1.44	5.8	2.11	1	111.5	0.2	0.45	2.09	0.30	1.33	250
W870441		2.4	0.32	2.7	6.5	1.24	8.3	2.16	<1	111.0	0.1	0.54	0.25	0.35	0.17	350
W870442		2.7	0.38	2.6	7.5	1.39	5.6	2.53	<1	169.0	0.1	0.59	<0.05	0.38	<0.05	386
W870443		2.5	0.34	2.7	7.5	1.52	8.1	2.69	<1	126.0	0.1	0.63	<0.05	0.40	<0.05	415
W870444		2.5	0.30	2.5	7.0	1.37	5.2	2.35	<1	109.5	0.1	0.54	<0.05	0.35	<0.05	343

***** 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: 7-MAR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18042500

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
W870405		6	23.9	2.57	141	0.9	0.06	0.005	0.011	0.002	0.15	<0.2	0.01	0.04	<0.5	0.6
W870406		4	14.8	1.48	76	38.5	0.30	0.119	0.052	0.016	1.20	11.1	1.24	0.06	2.8	1.8
W870407		1	19.5	2.02	30	1.1	0.03	<0.005	0.010	0.002	<0.05	0.3	0.03	0.02	<0.5	1.6
W870408		2	17.4	1.92	28	0.5	0.02	<0.005	0.010	0.002	<0.05	0.6	0.04	0.03	<0.5	1.4
W870409		2	15.5	1.69	25	0.3	0.03	<0.005	0.011	0.001	<0.05	0.8	0.05	0.05	<0.5	1.3
W870410		4	11.6	1.25	19	0.5	0.07	<0.005	0.009	0.001	<0.05	1.1	0.12	0.04	<0.5	0.9
W870411		1	11.7	1.36	18	0.3	0.02	<0.005	0.005	0.001	<0.05	0.2	0.02	<0.02	<0.5	1.0
W870412		1	14.2	1.45	20	0.4	0.02	<0.005	0.008	0.002	<0.05	0.4	0.01	0.02	<0.5	1.0
W870413		2	17.9	1.91	29	0.6	0.02	<0.005	0.009	0.002	<0.05	0.5	0.03	0.03	<0.5	1.1
W870414		2	15.5	1.57	25	0.2	0.02	<0.005	0.006	0.001	<0.05	0.2	0.02	<0.02	<0.5	1.4
W870415		1	17.3	1.88	28	0.2	0.02	<0.005	0.005	0.001	<0.05	0.4	0.02	0.02	<0.5	0.6
W870416		4	15.5	1.58	24	0.1	0.01	<0.005	0.007	0.001	<0.05	0.2	0.02	<0.02	<0.5	1.0
W870417		1	13.0	1.36	22	0.1	0.01	<0.005	0.005	0.001	<0.05	0.3	0.02	0.02	<0.5	1.0
W870418		1	14.4	1.65	22	<0.1	0.01	<0.005	0.007	0.001	<0.05	0.3	0.03	<0.02	<0.5	0.9
W870419		1	13.3	1.53	30	0.3	0.01	<0.005	0.005	0.001	<0.05	0.2	0.02	<0.02	<0.5	1.0
W870420		3	10.6	1.14	25	0.4	0.01	<0.005	0.005	<0.001	<0.05	0.2	0.02	<0.02	<0.5	0.8
W870421		9	10.1	1.15	19	0.5	0.01	<0.005	<0.005	0.001	<0.05	<0.2	0.01	<0.02	<0.5	0.9
W870422		1	10.7	1.12	17	0.3	0.01	<0.005	0.006	0.001	<0.05	0.2	0.02	<0.02	<0.5	0.8
W870423		2	16.0	1.61	21	0.1	<0.01	<0.005	0.006	0.001	<0.05	0.4	0.02	0.02	<0.5	1.1
W870424		1	16.4	1.79	22	<0.1	<0.01	<0.005	0.008	0.001	<0.05	0.3	0.02	0.02	<0.5	1.3
W870425		4	13.9	1.29	107	3.9	0.94	0.014	0.068	0.006	0.33	5.4	0.68	0.11	2.0	1.6
W870426		1	19.7	2.20	35	0.2	0.02	<0.005	0.010	0.001	<0.05	0.5	0.02	<0.02	<0.5	1.0
W870427		6	14.1	1.55	46	0.3	0.01	<0.005	0.007	0.001	<0.05	0.5	0.03	0.02	<0.5	0.8
W870428		1	18.7	2.05	56	0.3	0.01	<0.005	0.009	0.001	<0.05	0.3	0.02	<0.02	<0.5	1.3
W870429		1	23.6	2.52	57	0.4	0.01	<0.005	0.009	0.001	<0.05	0.2	0.01	<0.02	<0.5	0.8
W870430		9	22.9	2.46	50	0.4	0.02	<0.005	0.010	0.001	<0.05	0.3	0.01	<0.02	<0.5	1.0
W870431		9	17.5	1.83	52	0.5	0.01	<0.005	0.008	0.001	<0.05	0.3	0.01	<0.02	<0.5	1.0
W870432		1	21.0	2.34	56	0.5	0.01	<0.005	0.007	0.002	<0.05	0.5	0.01	<0.02	<0.5	0.9
W870433		1	24.9	2.58	57	0.6	0.02	<0.005	0.012	0.002	<0.05	0.9	0.01	<0.02	<0.5	1.2
W870434		1	23.1	2.52	52	0.8	0.04	<0.005	0.013	0.005	<0.05	1.2	0.03	<0.02	<0.5	1.2
W870435		2	24.0	2.49	36	0.5	0.02	<0.005	0.014	0.001	<0.05	0.5	0.02	<0.02	<0.5	1.1
W870436		1	25.0	2.59	42	0.3	0.02	<0.005	0.015	0.001	<0.05	0.7	0.03	<0.02	<0.5	1.6
W870437		2	23.9	2.56	41	0.4	0.02	<0.005	0.012	0.001	<0.05	0.4	0.01	<0.02	<0.5	1.0
W870438		4	24.5	2.45	43	0.4	0.01	<0.005	0.013	0.001	<0.05	0.4	0.01	<0.02	<0.5	1.5
W870439		3	20.7	2.28	37	0.2	0.01	<0.005	0.014	<0.001	<0.05	0.2	0.02	<0.02	<0.5	1.6
W870440		3	17.3	1.78	40	0.2	0.02	<0.005	0.014	0.001	<0.05	0.4	0.01	<0.02	<0.5	1.2
W870441		1	19.9	2.16	31	0.3	0.03	<0.005	0.013	0.001	<0.05	0.2	0.01	<0.02	<0.5	1.0
W870442		1	22.9	2.40	36	0.4	0.02	<0.005	0.010	0.001	<0.05	0.4	0.01	<0.02	<0.5	1.1
W870443		37	23.7	2.47	34	0.4	0.02	<0.005	0.012	0.001	<0.05	0.4	0.02	<0.02	<0.5	1.1
W870444		2	21.0	2.23	40	0.3	0.01	<0.005	0.013	0.002	<0.05	0.4	0.01	<0.02	<0.5	1.6

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

Finalized Date: 7-MAR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18042500

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
W870405		15	92	10	2	8	7	17	62	<0.001	<0.005	<0.001	0.029
W870406		153	5540	40	4	2150	8	25	77	0.141	0.723	0.375	11.45
W870407		57	208	10	<1	223	<2	31	99	0.003	0.008	0.020	0.480
W870408		56	349	20	1	299	9	26	98	0.006	0.009	0.035	0.625
W870409		57	424	30	1	371	3	24	91	0.008	0.011	0.039	0.665
W870410		62	770	20	<1	561	3	28	88	0.015	0.015	0.059	1.240
W870411		53	145	20	<1	228	<2	28	89	0.003	0.008	0.016	0.352
W870412		51	90	20	1	115	2	29	91	<0.001	0.005	0.007	0.298
W870413		50	144	20	<1	120	<2	29	97	<0.001	0.005	0.006	0.359
W870414		47	82	10	<1	113	<2	30	95	<0.001	<0.005	0.003	0.209
W870415		47	93	20	<1	98	<2	35	96	<0.001	<0.005	0.001	0.368
W870416		52	79	20	<1	130	<2	26	97	<0.001	0.005	0.006	0.250
W870417		47	85	30	<1	158	<2	24	87	<0.001	0.008	0.010	0.256
W870418		48	170	20	<1	149	<2	28	89	<0.001	0.005	0.008	0.276
W870419		46	93	20	<1	143	4	30	95	<0.001	<0.005	0.007	0.172
W870420		42	89	20	<1	135	<2	27	81	<0.001	<0.005	0.005	0.197
W870421		44	61	10	<1	141	<2	33	75	<0.001	0.005	0.005	0.146
W870422		46	74	10	<1	135	<2	34	80	<0.001	0.005	0.005	0.202
W870423		55	171	10	<1	135	<2	39	98	<0.001	0.005	0.005	0.433
W870424		54	137	10	<1	131	<2	35	101	<0.001	0.005	0.004	0.356
W870425		117	4580	20	5	4440	22	12	108	0.071	0.307	0.597	4.66
W870426		54	125	10	<1	128	2	29	105	0.001	<0.005	0.005	0.374
W870427		42	157	10	<1	116	2	28	89	<0.001	<0.005	0.004	0.514
W870428		47	110	10	<1	68	2	38	115	0.001	<0.005	0.001	0.249
W870429		47	134	10	<1	60	5	43	103	<0.001	<0.005	<0.001	0.163
W870430		51	132	10	<1	78	4	43	105	<0.001	<0.005	0.001	0.338
W870431		41	99	10	<1	82	2	34	97	<0.001	<0.005	0.002	0.319
W870432		44	103	10	1	57	<2	40	100	<0.001	<0.005	<0.001	0.580
W870433		49	139	10	<1	61	<2	43	107	<0.001	<0.005	0.001	1.075
W870434		60	364	10	<1	72	<2	49	121	0.005	<0.005	0.001	1.260
W870435		57	234	10	<1	65	<2	46	137	0.002	<0.005	<0.001	0.543
W870436		59	170	10	<1	69	<2	48	125	0.001	<0.005	<0.001	0.627
W870437		52	122	10	<1	66	2	48	118	<0.001	<0.005	<0.001	0.395
W870438		59	129	10	<1	94	<2	40	123	<0.001	<0.005	0.001	0.320
W870439		61	104	10	<1	116	<2	42	127	<0.001	<0.005	<0.001	0.243
W870440		51	118	10	<1	98	4	36	101	<0.001	<0.005	<0.001	0.324
W870441		56	126	20	<1	72	<2	48	127	<0.001	<0.005	<0.001	0.314
W870442		51	130	20	<1	64	<2	47	107	0.001	<0.005	<0.001	0.290
W870443		57	182	20	<1	68	3	49	120	<0.001	<0.005	<0.001	0.487
W870444		52	126	20	<1	67	<2	46	116	<0.001	<0.005	0.001	0.319

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

Finalized Date: 7-MAR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18042500

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
W870445		0.04	61.6	16.55	6.03	6.21	2.76	3.24	1.47	<0.01	0.48	0.12	0.13	0.05	0.07	0.99
W870446		2.40	50.6	12.85	15.25	8.70	6.51	2.84	0.22	0.02	1.20	0.21	0.07	0.01	<0.01	1.43
W870447		2.64	61.0	12.55	9.03	5.59	3.90	3.36	0.24	0.01	0.70	0.12	0.04	0.01	<0.01	1.55
W870448		2.13	47.8	13.30	16.15	9.60	6.93	2.73	0.35	0.02	1.21	0.23	0.07	0.01	<0.01	1.24
W870449		2.47	46.8	12.90	15.95	9.86	6.91	2.69	0.25	0.02	1.23	0.22	0.09	0.01	0.02	1.09
W870450		2.66	47.7	13.45	16.25	9.65	7.18	2.59	0.26	0.02	1.20	0.22	0.07	0.01	<0.01	0.88
W870451		2.59	45.9	12.85	16.15	10.65	7.03	2.40	0.24	0.02	1.29	0.23	0.08	0.01	<0.01	1.37
W870452		2.28	52.6	13.35	14.25	9.27	5.93	2.72	0.23	0.02	1.07	0.19	0.06	0.01	0.01	0.99
W870453		2.69	48.1	13.00	16.05	10.10	6.84	2.16	0.27	0.02	1.25	0.22	0.08	0.01	<0.01	1.08
W870454		2.95	46.4	13.25	16.70	10.15	7.79	2.12	0.26	0.02	1.30	0.24	0.08	0.01	<0.01	1.24
W870455		2.18	49.1	13.45	15.00	9.76	6.98	2.44	0.33	0.02	1.12	0.22	0.06	0.01	0.01	1.24
W870456		2.38	52.4	13.45	14.45	9.39	6.37	2.68	0.43	0.02	1.11	0.22	0.06	0.01	0.01	0.96
W870457		2.55	46.2	13.30	15.80	10.35	6.84	2.45	0.48	0.02	1.25	0.25	0.08	0.02	0.01	2.21
W870458		2.43	47.7	12.70	13.90	10.45	5.14	2.05	0.31	0.02	1.24	0.25	0.09	0.02	0.01	1.96
W870459		2.45	45.9	13.25	15.80	10.10	6.15	2.61	0.32	0.02	1.30	0.31	0.09	0.02	0.01	2.27
W870460		2.32	47.9	13.80	14.20	11.20	5.30	2.85	0.41	0.02	1.13	0.26	0.09	0.02	0.01	1.74
W870461		1.11	46.2	13.85	14.70	10.05	6.51	2.82	0.43	0.02	1.28	0.25	0.09	0.02	0.01	2.48
W870462		0.85	45.5	13.15	13.65	12.15	6.68	2.24	0.18	0.02	1.28	0.21	0.07	0.03	<0.01	3.55
W870463		1.06	49.0	14.80	13.50	10.45	6.51	2.98	0.53	0.02	0.94	0.23	0.11	0.03	0.01	2.11
W870464		2.46	47.1	15.15	13.75	10.65	6.00	2.69	0.65	0.04	0.95	0.25	0.03	0.02	0.01	1.98
W870465		0.08	41.8	9.16	15.30	15.85	11.00	0.60	0.23	0.10	0.68	0.14	0.12	<0.01	0.03	3.95
W870466		2.02	42.4	13.25	13.50	17.50	6.69	1.20	0.41	0.04	0.88	0.27	0.06	0.03	0.01	2.62
W870467		3.32	55.4	15.00	9.40	8.17	4.32	3.21	1.47	0.02	0.56	0.18	0.16	0.03	0.02	1.36
W870468		2.20	48.6	15.50	13.20	9.53	5.05	2.62	0.74	<0.01	1.11	0.19	0.43	0.05	0.02	1.37
W870469		2.34	48.6	15.80	13.75	9.21	4.85	2.70	0.63	<0.01	1.13	0.18	0.43	0.04	0.02	1.16
W870470		2.78	46.8	14.95	13.70	11.10	6.15	2.40	0.38	0.03	0.91	0.23	0.05	0.02	0.01	1.31
W870471		2.64	47.8	14.40	12.80	12.95	5.83	1.83	0.31	0.04	0.90	0.23	0.04	0.01	0.01	1.01
W870472		2.69	47.6	15.90	11.55	14.10	4.88	1.89	0.45	0.04	0.89	0.23	0.31	0.03	0.01	1.95
W870473		2.48	47.4	14.75	14.80	11.45	6.42	2.18	0.44	0.03	1.03	0.21	0.12	0.02	0.01	1.31
W870474		2.52	47.2	14.60	14.60	11.35	6.88	2.20	0.32	0.03	1.07	0.21	0.05	0.02	0.01	1.10
W870475		2.55	51.3	14.80	12.85	12.05	5.22	2.43	0.32	0.02	1.06	0.19	0.04	0.02	0.01	1.05
W870476		2.76	48.2	15.05	13.55	11.15	5.18	2.72	0.28	0.03	0.99	0.21	0.08	0.02	0.02	1.02
W870477		2.51	49.0	15.55	12.55	10.70	4.96	3.53	0.14	0.04	0.97	0.23	0.04	0.02	0.05	0.86
W870478		2.62	49.2	15.35	13.10	11.70	5.25	3.27	0.16	0.04	0.99	0.24	0.04	0.02	0.03	0.84
W870479		2.48	48.0	14.75	13.30	11.35	5.37	3.27	0.12	0.06	0.95	0.26	0.20	0.01	0.01	1.46
W870480		2.67	48.8	15.55	13.00	11.80	5.23	2.97	0.20	0.04	1.01	0.23	0.06	0.02	0.01	1.26
W870481		2.58	47.6	16.10	13.20	13.10	4.84	2.45	0.25	0.04	0.98	0.25	0.09	0.02	0.01	1.31
W870482		0.09	46.7	12.80	20.6	6.24	6.71	2.20	0.61	0.03	1.23	0.19	0.15	0.03	0.02	1.15

***** 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: 7-MAR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18042500

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
W870445		99.70	0.04	0.01	577	29.6	10	0.66	3.57	2.40	0.95	15.9	3.75	<5	3.6	0.75
W870446		99.91	0.06	0.11	28.1	9.5	120	0.28	4.06	2.48	0.95	16.0	3.43	<5	1.6	0.86
W870447		98.10	0.06	0.11	42.7	23.3	70	0.34	2.94	1.90	0.61	13.4	2.85	<5	2.5	0.67
W870448		99.64	0.05	0.11	31.6	7.6	120	0.40	3.38	2.07	0.71	15.2	2.78	<5	1.2	0.73
W870449		98.04	0.11	0.13	147.5	7.9	130	0.48	4.07	2.49	0.96	16.9	3.60	<5	1.0	0.86
W870450		99.48	0.04	0.13	31.7	7.7	120	0.42	3.58	2.25	0.81	14.5	3.18	<5	1.1	0.73
W870451		98.22	0.11	0.16	37.3	7.5	140	0.56	3.91	2.45	0.90	16.0	3.48	<5	1.3	0.83
W870452		100.70	0.08	0.13	42.8	15.2	120	0.50	4.38	2.81	0.85	16.0	3.57	<5	2.0	0.94
W870453		99.18	0.09	0.19	49.7	12.5	130	0.42	4.14	2.64	1.07	16.8	3.93	<5	1.3	0.88
W870454		99.56	0.09	0.17	37.4	8.3	130	0.39	4.15	2.52	0.93	15.2	3.32	<5	1.1	0.84
W870455		99.74	0.07	0.11	48.2	10.4	120	0.31	3.69	2.45	0.90	16.6	3.27	<5	1.3	0.84
W870456		101.56	0.09	0.07	49.5	7.2	120	0.44	3.29	2.23	0.85	15.4	2.85	<5	1.3	0.71
W870457		99.26	0.32	0.05	56.7	7.5	120	0.67	3.40	2.37	0.83	15.7	3.00	<5	1.1	0.79
W870458		95.84	0.26	0.39	40.0	7.8	110	0.49	3.48	2.43	0.85	15.1	3.21	<5	1.1	0.77
W870459		98.15	0.27	0.25	49.0	7.6	130	0.46	3.51	2.27	0.90	15.3	3.22	<5	1.2	0.80
W870460		98.93	0.31	0.15	104.0	13.9	110	0.60	3.54	2.17	0.96	16.8	3.50	<5	1.5	0.76
W870461		98.71	0.29	0.14	65.5	8.1	130	0.72	3.88	2.51	0.85	16.3	3.32	<5	1.3	0.86
W870462		98.71	0.46	0.01	27.7	6.9	120	0.33	3.33	2.29	0.92	16.2	3.12	<5	0.9	0.77
W870463		101.22	0.25	0.03	97.5	11.1	170	1.01	3.10	1.91	0.87	15.7	2.56	<5	1.0	0.66
W870464		99.27	0.21	0.07	118.0	3.8	250	1.22	2.52	1.48	0.67	15.8	1.87	<5	0.6	0.52
W870465		98.96	0.25	2.62	278	19.8	750	0.42	2.66	1.55	0.75	10.7	2.69	<5	1.9	0.52
W870466		98.86	0.56	0.17	89.3	6.8	290	1.00	2.91	1.83	0.74	16.0	2.40	<5	0.8	0.63
W870467		99.30	0.14	0.06	142.0	16.1	120	2.75	3.25	1.93	0.61	17.9	2.99	<5	1.1	0.69
W870468		98.41	0.06	0.08	116.0	21.6	<10	1.33	2.24	1.35	0.80	15.8	2.92	<5	0.7	0.48
W870469		98.50	0.08	0.08	125.5	22.4	10	1.14	2.56	1.33	0.87	16.9	3.06	<5	0.8	0.51
W870470		98.04	0.17	0.04	82.6	5.5	200	0.93	2.64	1.68	0.68	15.2	2.07	<5	0.8	0.58
W870471		98.16	0.20	0.02	49.9	4.2	210	0.43	2.71	1.67	0.65	13.8	2.26	<5	0.7	0.54
W870472		99.83	0.23	0.05	107.5	15.1	220	0.88	3.10	1.83	0.83	15.2	3.06	<5	0.8	0.65
W870473		100.17	0.12	0.03	74.3	9.7	160	0.49	3.42	2.15	0.88	15.8	2.98	<5	1.8	0.75
W870474		99.64	0.10	0.05	72.8	5.5	200	0.63	3.01	2.10	0.89	18.5	2.90	<5	1.0	0.68
W870475		101.36	0.20	0.05	94.4	8.4	170	0.40	3.41	2.28	0.91	17.7	3.18	<5	1.4	0.73
W870476		98.50	0.14	0.12	211	8.5	230	0.43	3.19	2.09	0.90	19.7	2.85	<5	1.9	0.72
W870477		98.64	0.20	0.17	404	4.3	290	0.22	2.66	1.80	0.73	17.7	2.18	<5	0.8	0.61
W870478		100.23	0.18	0.11	228	5.3	260	0.21	2.90	1.92	0.80	16.9	2.48	<5	0.9	0.67
W870479		99.11	0.15	0.20	132.0	6.4	380	0.22	3.06	1.84	0.77	17.1	2.90	<5	0.9	0.63
W870480		100.18	0.19	0.12	88.4	5.8	300	0.37	3.12	1.95	0.93	19.1	2.77	<5	1.1	0.68
W870481		100.24	0.19	0.14	84.6	7.0	310	0.48	3.32	2.17	0.89	20.9	2.90	<5	1.1	0.69
W870482		98.66	0.07	1.73	196.5	23.1	210	0.92	2.22	1.33	0.98	15.5	2.69	<5	2.2	0.49

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

Finalized Date: 7-MAR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18042500

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
W870445		13.0	0.39	3.2	16.4	3.95	26.4	4.08	1	494	0.2	0.60	2.73	0.38	1.26	154
W870446		3.5	0.36	2.8	8.1	1.55	4.2	2.59	<1	104.5	0.1	0.62	0.61	0.37	0.20	361
W870447		10.4	0.25	2.2	11.1	2.83	6.0	2.69	<1	113.5	0.3	0.46	9.27	0.30	1.83	204
W870448		2.7	0.29	2.5	6.5	1.23	6.9	2.31	2	95.5	0.1	0.51	0.24	0.33	0.32	334
W870449		2.5	0.34	2.4	6.8	1.32	5.8	2.58	<1	128.5	0.1	0.57	<0.05	0.36	<0.05	383
W870450		2.5	0.33	2.4	6.8	1.32	5.7	2.45	<1	122.5	0.1	0.60	0.38	0.35	0.23	333
W870451		2.6	0.34	2.6	7.4	1.35	5.9	2.54	<1	123.0	0.1	0.57	<0.05	0.37	0.05	385
W870452		6.3	0.41	3.1	9.7	2.13	4.6	2.94	<1	129.5	0.3	0.69	1.82	0.41	0.79	330
W870453		5.0	0.35	2.9	9.6	1.94	5.5	3.15	<1	140.0	0.1	0.69	0.84	0.37	0.07	381
W870454		2.7	0.34	2.6	7.7	1.46	5.5	2.63	<1	127.5	0.1	0.57	0.17	0.39	0.06	374
W870455		4.0	0.32	2.7	7.8	1.54	6.2	2.66	<1	136.0	0.1	0.57	0.64	0.36	0.20	344
W870456		2.5	0.29	2.4	6.3	1.22	6.7	1.94	1	130.5	0.1	0.52	0.67	0.30	0.73	323
W870457		2.6	0.34	2.7	6.8	1.25	10.4	2.23	<1	153.0	0.1	0.55	0.24	0.35	0.78	355
W870458		2.9	0.33	2.6	6.6	1.38	6.1	2.58	<1	182.5	0.1	0.58	0.43	0.34	0.37	347
W870459		2.6	0.34	2.4	6.8	1.24	8.2	2.32	<1	221	0.2	0.56	0.16	0.35	0.08	371
W870460		5.5	0.33	2.6	8.9	2.00	8.6	2.73	<1	230	0.1	0.54	0.38	0.34	0.15	328
W870461		2.6	0.36	2.4	7.4	1.36	11.6	2.44	<1	214	0.1	0.57	0.08	0.38	0.06	351
W870462		2.4	0.35	2.2	5.8	1.10	4.7	2.07	<1	258	0.1	0.49	0.06	0.33	0.12	370
W870463		4.5	0.27	1.5	7.8	1.61	13.8	2.12	<1	256	0.1	0.47	0.29	0.27	0.14	326
W870464		1.4	0.24	0.6	3.9	0.67	17.9	1.40	<1	243	<0.1	0.38	<0.05	0.23	<0.05	334
W870465		9.6	0.20	6.0	10.7	2.53	4.5	2.55	2	65.0	0.3	0.47	1.89	0.21	1.00	182
W870466		2.5	0.29	1.9	5.6	1.05	11.9	1.79	<1	265	0.1	0.43	0.13	0.29	<0.05	300
W870467		6.6	0.28	1.9	9.7	2.23	43.0	2.67	<1	258	0.2	0.50	2.66	0.29	2.49	203
W870468		9.3	0.14	2.3	12.0	2.90	15.6	2.95	<1	314	0.1	0.42	0.61	0.18	0.19	327
W870469		9.6	0.17	2.6	13.2	3.01	13.4	2.82	<1	357	0.2	0.44	0.68	0.18	0.24	398
W870470		2.1	0.25	0.7	4.6	0.81	8.2	1.60	<1	190.5	<0.1	0.40	0.10	0.25	<0.05	289
W870471		1.4	0.24	0.7	4.3	0.70	4.9	1.70	<1	121.5	0.1	0.40	0.30	0.27	0.25	281
W870472		6.2	0.27	2.3	9.8	2.14	12.0	2.46	<1	234	0.1	0.45	0.42	0.26	0.41	256
W870473		3.8	0.32	1.6	7.7	1.48	6.4	2.32	<1	203	0.1	0.52	0.25	0.33	0.19	302
W870474		2.2	0.31	1.3	5.5	1.04	6.4	1.91	<1	165.5	0.1	0.52	0.08	0.29	0.08	378
W870475		3.8	0.35	1.7	7.2	1.46	5.5	2.27	<1	151.0	0.1	0.58	0.65	0.31	0.20	327
W870476		4.0	0.33	1.5	6.7	1.42	5.1	2.03	<1	169.5	0.1	0.49	0.37	0.30	0.12	367
W870477		1.8	0.27	0.8	4.6	0.84	1.9	1.55	<1	170.0	<0.1	0.42	<0.05	0.24	<0.05	364
W870478		2.3	0.31	0.9	5.5	1.03	1.4	1.91	1	154.0	<0.1	0.44	0.08	0.28	<0.05	338
W870479		2.6	0.31	1.0	5.8	1.16	1.4	1.85	<1	126.5	<0.1	0.49	0.07	0.25	0.05	340
W870480		2.3	0.33	1.3	5.4	1.05	3.5	1.80	<1	185.5	0.1	0.48	0.06	0.29	<0.05	374
W870481		3.1	0.35	1.9	6.1	1.27	4.3	1.85	<1	182.0	0.1	0.50	0.17	0.30	0.06	381
W870482		11.9	0.18	6.4	12.5	3.19	14.6	2.68	3	249	0.4	0.40	1.52	0.16	0.45	111

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

Finalized Date: 7-MAR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18042500

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
W870445		5	23.4	2.37	131	0.7	0.05	<0.005	0.009	<0.001	0.12	<0.2	0.01	0.04	<0.5	<0.5
W870446		<1	22.5	2.26	54	0.4	0.02	<0.005	0.012	0.001	<0.05	0.3	0.02	<0.02	<0.5	1.5
W870447		<1	18.0	1.71	65	0.5	0.01	<0.005	0.009	0.001	<0.05	0.3	0.01	<0.02	<0.5	0.5
W870448		<1	19.9	2.05	32	0.3	0.04	<0.005	0.014	0.001	<0.05	<0.2	0.02	<0.02	<0.5	1.1
W870449		<1	22.2	2.28	35	0.2	0.01	<0.005	0.013	0.002	<0.05	0.4	0.02	<0.02	<0.5	1.6
W870450		5	20.2	1.97	33	0.2	0.03	<0.005	0.013	0.001	<0.05	0.3	0.01	<0.02	<0.5	0.9
W870451		1	21.8	2.15	39	0.3	0.02	<0.005	0.012	0.001	<0.05	0.3	0.01	<0.02	<0.5	1.0
W870452		<1	26.4	2.82	56	0.6	0.01	<0.005	0.012	0.001	<0.05	0.4	0.01	<0.02	<0.5	0.8
W870453		18	23.5	2.43	42	0.2	0.02	<0.005	0.012	0.001	<0.05	0.4	0.02	<0.02	<0.5	0.8
W870454		1	22.2	2.12	34	0.3	0.02	<0.005	0.015	0.001	<0.05	0.4	0.01	<0.02	<0.5	1.1
W870455		1	21.7	2.11	41	0.1	0.01	<0.005	0.014	0.001	<0.05	0.3	0.01	<0.02	<0.5	1.0
W870456		<1	18.9	2.01	39	0.1	0.02	<0.005	0.012	<0.001	<0.05	0.2	0.01	<0.02	<0.5	1.2
W870457		3	20.1	2.28	37	0.2	0.02	<0.005	0.013	0.001	<0.05	<0.2	0.01	<0.02	<0.5	1.3
W870458		1	20.6	2.18	38	0.6	0.02	<0.005	0.012	<0.001	<0.05	0.9	0.02	<0.02	0.5	1.2
W870459		<1	21.1	2.20	38	0.4	0.02	<0.005	0.013	0.001	<0.05	0.4	0.02	<0.02	<0.5	1.6
W870460		2	20.4	2.10	51	0.4	0.03	<0.005	0.011	0.001	<0.05	0.2	0.01	<0.02	<0.5	1.1
W870461		2	22.0	2.37	39	1.5	0.01	<0.005	0.011	0.001	<0.05	0.2	0.02	<0.02	<0.5	1.0
W870462		3	20.0	2.01	31	0.1	0.01	<0.005	0.012	0.001	<0.05	<0.2	0.01	<0.02	<0.5	0.8
W870463		2	17.5	1.89	33	0.4	0.02	<0.005	0.009	<0.001	<0.05	<0.2	0.01	<0.02	<0.5	1.0
W870464		<1	14.1	1.60	16	0.5	0.02	<0.005	0.009	0.001	<0.05	<0.2	0.02	<0.02	<0.5	1.0
W870465		1	14.2	1.48	78	41.0	0.30	0.129	0.053	0.014	1.29	10.5	1.21	0.06	3.0	1.7
W870466		6	16.8	1.78	29	1.2	0.01	<0.005	0.009	0.001	<0.05	0.4	0.02	<0.02	<0.5	0.9
W870467		<1	19.4	2.02	25	0.6	0.14	<0.005	0.006	<0.001	<0.05	0.2	0.01	<0.02	<0.5	0.7
W870468		29	12.6	1.05	22	0.4	0.01	<0.005	0.007	0.001	<0.05	<0.2	<0.01	<0.02	<0.5	1.0
W870469		<1	13.2	1.23	27	0.5	0.01	<0.005	0.008	<0.001	<0.05	<0.2	0.01	0.02	<0.5	1.2
W870470		1	14.8	1.55	27	0.7	0.01	<0.005	0.009	<0.001	<0.05	<0.2	0.01	<0.02	<0.5	1.1
W870471		<1	15.1	1.76	20	0.3	0.02	<0.005	0.007	<0.001	<0.05	<0.2	0.01	<0.02	<0.5	1.3
W870472		2	18.0	1.93	27	0.5	0.01	<0.005	0.010	0.001	<0.05	<0.2	0.01	<0.02	<0.5	1.2
W870473		1	19.7	2.15	69	0.4	0.01	<0.005	0.013	0.001	<0.05	<0.2	0.01	<0.02	<0.5	1.4
W870474		1	17.8	2.00	28	0.2	0.01	<0.005	0.010	0.001	<0.05	<0.2	0.01	<0.02	<0.5	1.2
W870475		1	19.6	2.18	44	0.4	0.01	<0.005	0.010	0.001	<0.05	0.2	0.01	<0.02	<0.5	1.0
W870476		2	18.5	2.01	77	0.2	0.01	<0.005	0.012	0.001	<0.05	<0.2	0.01	<0.02	<0.5	1.3
W870477		1	15.1	1.67	23	0.5	0.02	<0.005	0.012	0.002	<0.05	0.7	0.03	<0.02	<0.5	0.6
W870478		1	16.8	1.92	26	0.4	0.01	<0.005	0.013	0.001	<0.05	0.3	0.01	<0.02	<0.5	1.6
W870479		2	17.2	1.87	25	0.8	0.02	0.005	0.010	0.001	<0.05	0.6	0.02	<0.02	<0.5	1.0
W870480		2	18.1	2.02	30	0.5	0.01	<0.005	0.011	0.001	<0.05	0.3	0.01	<0.02	<0.5	0.9
W870481		3	19.0	2.17	36	0.5	0.02	<0.005	0.009	0.001	<0.05	0.3	0.02	<0.02	<0.5	1.0
W870482		5	12.1	1.14	89	4.3	0.84	0.010	0.068	0.005	0.33	5.0	0.63	0.11	1.9	1.3

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

ALS Canada Ltd.

2103 Dollarton Hwy
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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: 7-MAR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18042500

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	PGM-ICP23 Au ppm 0.001	PGM-ICP23 Pt ppm 0.005	PGM-ICP23 Pd ppm 0.001	Se-MS46 Se ppm 0.003
W870445		15	91	10	2	7	7	17	61	<0.001	<0.005	<0.001	0.027
W870446		53	178	20	<1	59	<2	46	108	<0.001	<0.005	<0.001	0.356
W870447		31	75	20	<1	34	<2	27	63	<0.001	<0.005	<0.001	0.276
W870448		53	119	20	<1	68	2	48	111	<0.001	<0.005	<0.001	0.306
W870449		55	141	10	<1	70	<2	50	113	<0.001	<0.005	<0.001	0.370
W870450		53	144	10	<1	65	3	47	110	<0.001	<0.005	<0.001	0.363
W870451		53	146	20	<1	64	2	49	107	<0.001	<0.005	<0.001	0.412
W870452		46	127	20	<1	54	2	41	98	<0.001	<0.005	<0.001	0.342
W870453		54	200	10	1	62	3	46	111	0.001	<0.005	<0.001	0.486
W870454		58	126	10	<1	69	<2	50	121	<0.001	<0.005	<0.001	0.369
W870455		49	116	10	<1	64	2	42	109	<0.001	<0.005	<0.001	0.275
W870456		47	110	10	<1	56	3	42	115	<0.001	<0.005	<0.001	0.196
W870457		51	40	10	1	65	3	46	130	<0.001	<0.005	<0.001	0.128
W870458		60	393	20	<1	64	4	47	105	0.007	<0.005	<0.001	0.809
W870459		56	204	20	<1	60	2	48	130	<0.001	<0.005	<0.001	0.517
W870460		54	157	10	<1	70	3	44	117	0.015	<0.005	<0.001	0.404
W870461		56	169	20	1	71	<2	48	119	0.001	<0.005	<0.001	0.337
W870462		41	15	20	<1	59	2	44	99	<0.001	<0.005	<0.001	0.024
W870463		47	53	20	1	93	10	40	101	<0.001	<0.005	0.002	0.090
W870464		53	64	20	1	129	<2	45	107	<0.001	<0.005	0.001	0.174
W870465		151	5480	40	4	2140	3	24	75	0.099	0.709	0.369	10.15
W870466		56	138	10	<1	123	6	41	91	0.001	<0.005	0.001	0.359
W870467		34	59	10	<1	69	14	30	72	<0.001	<0.005	0.002	0.148
W870468		44	110	10	1	50	3	29	111	<0.001	<0.005	<0.001	0.112
W870469		44	111	10	1	53	5	26	113	<0.001	<0.005	<0.001	0.133
W870470		51	88	10	<1	115	<2	43	103	<0.001	<0.005	<0.001	0.145
W870471		49	75	10	<1	114	<2	44	97	0.001	<0.005	<0.001	0.078
W870472		51	83	20	2	117	2	39	91	<0.001	<0.005	<0.001	0.154
W870473		52	62	20	<1	106	2	41	110	<0.001	<0.005	0.003	0.109
W870474		51	78	10	1	104	4	43	115	<0.001	<0.005	0.001	0.157
W870475		42	90	10	1	85	4	40	97	<0.001	<0.005	<0.001	0.174
W870476		52	163	10	1	113	2	42	117	<0.001	<0.005	<0.001	0.351
W870477		55	237	10	1	134	<2	45	104	0.001	<0.005	<0.001	0.492
W870478		55	158	10	1	132	<2	47	104	<0.001	<0.005	<0.001	0.329
W870479		63	272	20	1	154	2	47	115	0.001	<0.005	<0.001	0.554
W870480		54	196	10	1	135	<2	44	104	0.002	<0.005	<0.001	0.355
W870481		57	133	10	1	152	3	46	108	<0.001	<0.005	<0.001	0.387
W870482		114	4540	20	5	4360	25	12	104	0.057	0.310	0.603	4.19

***** 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: 7-MAR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18042500

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		