ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
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: 12-MAR-2018
Account: NAPEHZEU

CERTIFICATE TB18042514

Project: Gfields

P.O. No.: 178845

This report is for 78 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 26-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

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
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: 12-MAR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18042514

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
W870639		0.04	62.2	16.75	6.03	6.31	2.78	3.37	1.54	<0.01	0.50	0.13	0.16	0.05	0.07	1.07
W870640		0.07	42.4	9.11	14.75	15.85	11.00	0.64	0.24	0.11	0.69	0.15	0.13	<0.01	0.03	4.16
W870641		2.65	47.7	14.80	13.75	12.20	5.73	2.13	0.37	0.03	0.96	0.25	0.05	0.02	0.01	1.96
W870642		1.46	47.1	15.65	13.00	9.96	5.59	2.68	0.63	<0.01	1.00	0.23	0.53	0.03	0.02	2.39
W870643		2.17	46.2	15.00	15.15	13.20	5.92	1.78	0.33	0.03	1.09	0.25	0.09	0.03	0.01	1.97
W870644		2.47	47.6	15.90	14.05	13.00	5.33	2.26	0.33	0.02	1.18	0.22	0.37	0.05	0.01	0.90
W870645		2.59	49.1	15.05	12.90	12.30	5.67	2.46	0.32	0.04	1.02	0.22	0.13	0.02	0.01	1.01
W870646		2.50	47.8	15.05	14.30	12.20	6.10	2.30	0.29	0.03	1.11	0.23	0.18	0.03	0.01	0.75
W870647		1.81	48.4	14.25	15.05	10.45	5.53	2.76	0.56	<0.01	1.40	0.23	0.61	0.04	0.02	0.76
W870648		1.88	48.4	16.00	13.85	10.05	4.91	3.02	0.63	<0.01	1.19	0.21	0.52	0.05	0.03	0.80
W870649		2.44	48.4	15.80	13.90	9.99	4.54	2.95	0.58	<0.01	1.29	0.19	0.23	0.05	0.03	0.51
W870650		2.45	51.0	16.00	12.55	10.95	4.86	3.15	0.47	<0.01	1.24	0.20	0.22	0.05	0.02	0.50
W870651		2.61	50.5	15.50	12.65	10.60	5.42	2.96	0.55	<0.01	1.06	0.21	0.39	0.05	0.03	0.62
W870652		1.91	50.5	15.50	12.40	10.60	5.39	2.87	0.53	<0.01	0.99	0.19	0.12	0.05	0.03	0.51
W870653		1.96	53.8	16.15	9.84	10.10	4.96	3.09	0.47	<0.01	0.65	0.17	0.14	0.05	0.02	0.83
W870654		1.59	48.2	15.85	13.85	12.85	5.51	1.95	0.41	0.03	0.88	0.28	0.06	0.02	0.02	1.35
W870655		1.73	50.2	14.65	12.70	13.85	6.16	2.04	0.21	0.04	0.95	0.25	0.06	0.01	0.01	0.82
W870656		2.52	51.0	14.60	12.90	11.70	6.08	2.05	0.35	0.03	0.87	0.22	0.04	0.01	0.01	1.21
W870657		2.66	49.2	14.80	13.00	13.80	5.83	1.33	0.20	0.03	0.93	0.28	0.05	0.01	0.01	1.53
W870658		2.41	45.9	15.80	14.75	13.75	6.35	1.12	0.30	0.06	1.05	0.39	0.07	<0.01	0.01	1.49
W870659		0.09	47.6	12.75	21.0	6.34	6.74	2.18	0.63	0.03	1.24	0.19	0.15	0.02	0.02	1.18
W870660		2.67	38.8	10.45	15.65	20.1	9.01	0.59	0.15	0.02	0.78	0.30	0.10	<0.01	<0.01	4.03
W870661		2.52	42.8	15.15	13.90	15.00	6.82	0.93	0.30	0.04	1.06	0.27	0.13	0.01	0.01	1.73
W870662		2.49	44.8	14.05	13.60	15.35	6.84	1.26	0.25	0.04	0.96	0.28	0.11	0.01	0.01	1.77
W870663		2.78	42.5	11.80	12.80	18.40	8.47	0.64	0.27	0.03	0.86	0.29	0.13	<0.01	0.01	2.37
W870664		2.68	42.4	13.30	12.40	18.80	8.14	0.50	0.24	0.03	0.89	0.30	0.15	<0.01	0.01	2.63
W870665		2.65	35.1	10.35	15.45	20.6	8.87	0.50	0.29	0.02	0.75	0.31	0.17	<0.01	0.01	8.51
W870666		2.65	32.7	8.80	12.65	22.0	10.40	0.44	0.16	0.02	0.58	0.29	0.07	<0.01	0.01	10.85
W870667		2.55	46.0	15.15	14.50	11.45	8.01	1.50	0.40	0.04	1.01	0.24	0.06	0.01	0.01	2.21
W870668		2.45	47.2	13.70	13.45	15.60	5.82	1.50	0.26	0.04	0.95	0.27	0.06	0.02	0.01	1.68
W870669		2.46	48.1	15.60	13.55	12.45	5.78	2.54	0.32	0.04	1.02	0.25	0.04	0.02	0.01	0.96
W870670		2.42	49.4	15.50	12.75	12.15	5.93	2.62	0.40	0.04	1.02	0.23	0.04	0.02	0.01	0.74
W870671		2.84	46.8	14.00	15.50	11.10	6.58	2.00	0.22	0.03	1.16	0.23	0.06	0.01	<0.01	0.66
W870672		1.54	75.8	13.60	1.51	1.51	0.39	4.08	3.66	<0.01	0.11	0.05	0.04	<0.01	0.08	0.31
W870673		2.37	52.6	14.20	11.95	9.12	5.06	2.37	1.04	0.02	0.88	0.19	0.04	<0.01	0.01	0.99
W870674		2.49	49.3	14.60	13.10	11.25	5.76	2.41	0.38	0.03	1.08	0.21	0.06	0.01	0.01	0.89
W870675		2.76	47.5	14.20	14.55	13.40	5.42	1.70	0.44	0.03	1.08	0.25	0.09	0.01	0.01	1.14
W870676		2.05	69.4	13.70	4.46	3.29	1.70	3.84	3.13	0.01	0.30	0.11	0.04	0.01	0.04	0.72
W870677		2.59	46.5	14.85	13.35	13.85	4.55	2.32	0.28	0.03	0.98	0.29	0.07	0.01	0.01	1.84
W870678		2.65	48.3	14.85	13.20	14.45	4.57	2.37	0.26	0.03	0.90	0.28	0.19	0.02	0.01	0.87

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

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
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: 12-MAR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18042514

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
W870639		100.96	0.04	0.01	600	30.3	20	0.69	3.95	2.36	1.08	16.9	3.96	<5	3.5	0.87
W870640		99.26	0.25	2.60	294	20.1	780	0.47	2.43	1.47	0.82	11.9	2.86	<5	2.0	0.56
W870641		99.96	0.22	0.10	86.2	5.9	260	0.85	2.66	1.71	0.73	18.7	2.64	<5	1.0	0.72
W870642		98.81	0.11	0.26	155.0	29.4	10	1.69	2.78	1.39	1.08	19.2	3.52	<5	1.1	0.56
W870643		101.05	0.21	0.05	78.4	7.6	200	0.66	2.93	1.92	0.89	19.1	2.76	<5	1.2	0.63
W870644		101.22	0.11	0.13	134.0	22.5	120	0.64	3.21	1.77	1.22	20.5	4.23	<5	1.0	0.69
W870645		100.25	0.17	0.18	109.0	12.5	280	0.55	3.00	1.73	0.95	19.6	3.10	<5	1.1	0.69
W870646		100.38	0.11	0.13	112.0	14.4	200	0.23	3.08	1.69	0.98	20.3	2.98	<5	0.9	0.65
W870647		100.06	0.08	0.10	203	51.0	20	0.91	4.20	2.43	1.26	21.4	6.27	<5	2.4	1.00
W870648		99.66	0.08	0.17	242	40.4	20	1.46	3.39	1.75	1.26	20.5	4.73	<5	1.4	0.69
W870649		98.46	0.05	0.10	242	31.2	20	1.06	3.45	1.81	1.01	21.2	4.12	<5	1.9	0.71
W870650		101.21	0.06	0.03	204	29.9	20	0.64	3.57	1.76	1.18	21.0	4.18	<5	1.8	0.62
W870651		100.54	0.06	0.04	242	29.4	10	1.01	3.04	1.49	1.11	19.7	3.49	<5	1.4	0.55
W870652		99.68	0.05	0.05	226	18.8	20	1.12	2.74	1.48	1.04	19.8	2.79	<5	1.1	0.54
W870653		100.27	0.09	0.06	174.0	19.3	20	0.87	2.11	1.06	0.80	17.9	2.29	<5	2.0	0.40
W870654		101.26	0.19	0.18	152.0	7.4	230	1.01	3.24	1.81	0.86	19.7	2.46	<5	1.0	0.66
W870655		101.95	0.11	0.08	67.0	5.5	260	0.33	3.47	2.23	0.78	18.3	2.76	<5	1.0	0.68
W870656		101.07	0.13	0.05	63.2	7.6	230	1.49	3.00	1.80	0.71	18.8	2.48	<5	1.1	0.60
W870657		101.00	0.18	0.03	62.0	6.1	250	0.44	3.23	2.04	0.73	18.5	2.52	<5	1.0	0.70
W870658		101.04	0.12	0.10	72.9	6.2	460	0.84	3.42	2.19	0.87	20.6	2.77	<5	0.9	0.70
W870659		100.07	0.08	1.70	205	26.6	250	0.96	2.75	1.46	1.00	16.6	2.78	<5	2.4	0.56
W870660		99.98	1.04	0.39	36.3	12.0	150	0.45	3.53	2.28	0.84	15.4	3.23	<5	2.0	0.74
W870661		98.15	0.17	0.35	78.5	8.6	290	1.07	3.47	2.17	0.94	19.7	2.90	<5	1.1	0.74
W870662		99.33	0.18	0.19	49.7	7.8	280	0.88	3.34	2.06	0.81	18.0	3.16	<5	1.0	0.72
W870663		98.57	0.44	0.31	56.1	12.1	180	0.64	4.18	2.43	0.76	15.2	3.51	<5	1.5	0.76
W870664		99.79	0.38	0.30	45.9	10.6	240	0.50	3.91	2.51	0.75	17.2	3.22	<5	1.4	0.82
W870665		100.93	2.10	0.17	61.8	9.7	170	1.11	3.35	2.15	0.76	13.9	3.13	<5	1.1	0.74
W870666		98.97	2.52	0.12	103.0	6.3	170	0.25	2.18	1.48	0.61	12.3	1.90	<5	0.7	0.50
W870667		100.59	0.08	0.08	71.8	6.8	300	1.32	2.69	1.80	0.79	18.7	2.23	<5	0.8	0.57
W870668		100.56	0.18	0.09	48.4	8.7	260	0.56	3.16	2.18	0.75	17.5	2.69	<5	1.4	0.70
W870669		100.68	0.13	0.07	79.0	4.5	310	0.82	2.86	1.84	0.81	19.8	2.50	<5	0.8	0.62
W870670		100.85	0.13	0.07	84.4	5.2	320	1.15	2.88	1.85	0.72	18.6	2.29	<5	0.9	0.63
W870671		98.35	0.11	0.06	38.0	4.7	210	0.50	3.27	2.13	0.83	18.6	2.45	<5	0.7	0.70
W870672		101.14	0.04	0.01	702	28.0	20	4.68	1.50	0.77	0.28	19.3	1.74	<5	2.6	0.26
W870673		98.47	0.10	0.05	127.0	8.8	160	2.63	2.71	1.65	0.63	18.2	2.17	<5	1.1	0.53
W870674		99.09	0.14	0.07	68.3	6.4	200	0.74	3.24	1.92	0.83	17.7	2.68	<5	0.9	0.67
W870675		99.82	0.12	0.08	93.3	9.2	190	0.69	3.44	2.13	0.86	18.7	2.75	<5	1.2	0.71
W870676		100.75	0.12	0.03	349	20.1	50	5.04	2.06	1.08	0.36	20.3	1.61	<5	1.9	0.34
W870677		98.93	0.37	0.16	72.1	7.5	240	0.58	3.43	2.06	0.76	18.7	2.56	<5	1.4	0.78
W870678		100.30	0.16	0.06	101.5	14.8	210	0.37	4.10	2.28	0.86	19.1	3.53	<5	1.6	0.82

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

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
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: 12-MAR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18042514

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
W870639		13.2	0.45	4.6	17.3	4.08	27.0	4.28	1	483	0.2	0.70	3.17	0.36	1.38	152
W870640		9.5	0.22	6.9	10.3	2.41	5.1	2.65	2	64.2	0.4	0.48	2.03	0.22	0.92	173
W870641		2.1	0.28	1.4	5.4	1.01	9.4	1.93	<1	225	0.1	0.45	0.14	0.26	0.14	358
W870642		11.9	0.19	2.2	20.0	4.04	22.1	4.25	<1	314	0.2	0.55	0.79	0.18	0.23	367
W870643		2.9	0.31	1.4	6.5	1.30	9.9	2.00	<1	289	0.1	0.52	0.19	0.29	0.12	368
W870644		8.8	0.24	2.1	15.6	3.26	6.4	3.91	<1	427	0.2	0.58	0.36	0.25	0.17	394
W870645		4.9	0.31	1.8	9.5	1.82	9.3	2.81	<1	272	0.1	0.48	0.52	0.26	0.25	372
W870646		5.3	0.26	1.4	10.0	2.04	3.5	2.72	1	297	0.1	0.49	0.19	0.25	0.06	406
W870647		20.0	0.31	5.8	30.7	6.91	12.1	6.94	1	362	0.4	0.87	1.47	0.34	0.51	325
W870648		16.7	0.26	3.9	22.8	5.24	18.5	5.26	2	462	0.2	0.65	1.43	0.26	0.41	340
W870649		12.9	0.24	4.6	19.4	4.23	15.0	3.84	1	441	0.2	0.54	1.27	0.25	0.31	368
W870650		11.7	0.25	4.1	18.2	3.97	9.1	3.99	1	435	0.2	0.59	1.41	0.27	0.36	309
W870651		12.9	0.18	2.8	16.5	3.86	14.0	3.31	1	450	0.1	0.50	1.57	0.20	0.46	339
W870652		8.4	0.18	2.6	12.1	2.52	13.6	2.80	1	465	0.1	0.41	1.05	0.18	0.25	401
W870653		9.2	0.19	2.6	10.7	2.47	12.9	2.29	<1	435	0.2	0.34	1.12	0.17	0.38	235
W870654		3.1	0.27	1.3	5.5	1.15	12.4	1.73	<1	188.5	<0.1	0.45	0.73	0.26	0.20	314
W870655		1.8	0.32	1.0	5.7	1.03	3.1	1.94	<1	167.5	<0.1	0.48	<0.05	0.31	<0.05	325
W870656		3.0	0.26	1.8	5.5	1.13	12.5	1.73	<1	123.5	0.1	0.40	1.33	0.27	0.60	291
W870657		2.5	0.27	1.1	5.2	0.90	4.1	1.90	<1	108.0	<0.1	0.43	0.48	0.29	0.10	318
W870658		2.4	0.32	2.3	5.5	0.97	9.0	2.07	<1	92.4	0.1	0.48	0.09	0.33	<0.05	370
W870659		12.2	0.17	7.1	13.8	3.39	16.3	2.94	4	250	0.3	0.41	1.65	0.22	0.48	123
W870660		4.8	0.37	3.5	8.6	1.75	2.8	2.63	1	74.4	0.1	0.53	0.41	0.31	0.10	223
W870661		3.4	0.31	3.4	6.8	1.27	10.8	2.17	<1	108.0	0.1	0.47	0.31	0.32	0.11	338
W870662		3.0	0.32	2.4	6.1	1.23	6.8	2.10	<1	124.0	0.1	0.49	0.15	0.31	0.09	326
W870663		4.7	0.36	3.8	9.0	1.89	7.1	2.79	1	80.7	0.2	0.56	1.08	0.34	0.61	250
W870664		4.2	0.34	4.3	7.6	1.57	7.6	2.16	1	89.6	0.1	0.52	0.43	0.32	0.27	290
W870665		3.9	0.32	4.0	7.3	1.46	9.3	2.30	<1	83.9	0.1	0.48	0.13	0.35	0.07	204
W870666		2.6	0.21	2.1	4.8	0.95	2.8	1.33	<1	74.1	<0.1	0.36	0.22	0.21	0.21	204
W870667		2.9	0.26	1.9	5.1	1.00	13.0	1.59	<1	148.5	0.1	0.37	0.31	0.27	0.12	331
W870668		3.3	0.31	2.3	6.6	1.28	4.7	1.96	<1	189.0	0.1	0.47	0.33	0.27	0.17	294
W870669		1.6	0.26	0.9	4.9	0.79	6.4	1.78	<1	181.5	<0.1	0.43	<0.05	0.24	0.11	343
W870670		1.8	0.25	0.7	4.7	0.85	9.2	1.73	<1	165.5	<0.1	0.39	0.34	0.24	0.08	343
W870671		1.6	0.33	1.1	5.4	0.84	4.4	1.81	1	102.0	<0.1	0.48	<0.05	0.28	<0.05	353
W870672		13.8	0.10	9.2	10.7	3.12	118.5	2.33	1	77.2	1.0	0.25	7.89	0.10	3.37	19
W870673		3.8	0.25	3.0	5.3	1.20	42.0	1.69	<1	80.9	0.3	0.34	1.59	0.22	1.02	271
W870674		2.6	0.28	1.4	5.3	0.95	11.4	1.78	<1	108.5	0.1	0.50	0.68	0.26	0.60	337
W870675		3.7	0.28	1.8	7.1	1.39	13.0	2.39	1	128.5	0.1	0.49	0.66	0.28	0.17	320
W870676		9.7	0.15	8.7	8.6	2.21	101.0	1.65	1	66.0	1.3	0.26	6.06	0.16	4.60	79
W870677		2.8	0.33	1.6	6.5	1.19	5.8	2.33	<1	144.0	0.1	0.48	0.17	0.31	<0.05	318
W870678		5.7	0.35	2.0	11.5	2.21	3.9	2.85	1	184.0	0.1	0.56	0.44	0.32	0.13	289

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

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
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: 12-MAR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18042514

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
W870639		6	22.8	2.65	127	0.7	0.04	0.005	0.009	<0.001	0.14	<0.2	<0.01	0.04	<0.5	<0.5
W870640		1	14.1	1.59	79	49.0	0.28	0.121	0.049	0.015	1.45	13.1	1.35	0.06	2.8	1.2
W870641		2	16.0	1.89	28	0.5	0.02	<0.005	0.010	0.001	<0.05	0.4	0.02	<0.02	<0.5	<0.5
W870642		2	14.6	1.18	42	0.9	0.02	<0.005	0.008	0.002	<0.05	0.5	0.01	<0.02	<0.5	<0.5
W870643		3	17.5	2.00	32	0.3	0.01	<0.005	0.008	0.001	<0.05	0.2	<0.01	<0.02	<0.5	0.6
W870644		1	17.4	1.88	32	0.4	0.01	<0.005	0.011	0.001	<0.05	0.4	0.01	0.02	<0.5	<0.5
W870645		1	16.5	1.70	32	0.5	0.04	<0.005	0.010	0.001	<0.05	0.5	0.05	<0.02	<0.5	<0.5
W870646		4	15.7	1.68	25	0.3	0.01	<0.005	0.009	0.001	<0.05	0.3	0.02	<0.02	<0.5	0.6
W870647		1	24.8	2.42	82	0.9	0.03	<0.005	0.014	0.001	<0.05	0.2	0.01	0.03	<0.5	<0.5
W870648		1	17.7	1.67	41	0.6	0.03	<0.005	0.011	0.001	<0.05	0.4	0.02	0.06	<0.5	<0.5
W870649		2	17.1	1.61	74	0.5	0.02	<0.005	0.013	0.001	<0.05	0.2	0.01	0.04	<0.5	0.5
W870650		1	17.0	1.74	63	0.6	0.02	<0.005	0.014	<0.001	<0.05	<0.2	<0.01	<0.02	<0.5	<0.5
W870651		1	14.5	1.31	51	0.5	0.02	<0.005	0.010	<0.001	<0.05	<0.2	<0.01	0.03	<0.5	<0.5
W870652		3	12.2	1.15	39	0.4	0.02	<0.005	0.011	<0.001	<0.05	<0.2	0.01	0.03	<0.5	<0.5
W870653		1	10.1	1.05	86	0.5	0.02	<0.005	0.006	<0.001	<0.05	0.2	<0.01	0.03	<0.5	<0.5
W870654		1	16.1	1.89	30	0.2	0.03	<0.005	0.007	0.001	<0.05	0.5	0.02	0.02	<0.5	<0.5
W870655		1	17.9	2.03	28	0.1	0.01	<0.005	0.006	0.001	<0.05	0.2	0.01	<0.02	<0.5	<0.5
W870656		2	15.1	1.81	27	0.3	0.32	<0.005	0.007	0.002	<0.05	0.2	0.01	0.02	<0.5	0.5
W870657		<1	16.3	1.84	31	0.4	0.01	<0.005	0.005	0.001	<0.05	<0.2	0.01	<0.02	<0.5	0.5
W870658		4	18.7	2.28	27	0.3	0.01	<0.005	0.007	0.001	<0.05	0.4	0.02	<0.02	<0.5	<0.5
W870659		13	12.9	1.20	98	4.1	0.76	0.012	0.059	0.003	0.30	5.3	0.56	0.08	1.8	0.8
W870660		1	19.7	2.17	77	0.7	0.12	0.011	0.013	0.001	<0.05	1.3	0.23	0.03	1.2	<0.5
W870661		3	18.2	2.27	39	0.7	0.05	<0.005	0.009	0.002	<0.05	1.0	0.07	0.02	<0.5	0.6
W870662		15	17.9	1.91	35	0.6	0.08	<0.005	0.010	0.001	<0.05	0.5	0.15	<0.02	<0.5	0.7
W870663		9	21.3	2.19	56	0.6	0.18	0.022	0.011	<0.001	<0.05	1.1	0.27	0.02	0.9	0.7
W870664		13	20.9	2.31	55	0.8	0.13	0.012	0.008	0.001	0.05	1.1	0.29	<0.02	0.6	<0.5
W870665		9	19.1	2.18	41	0.4	0.05	<0.005	0.007	0.001	<0.05	0.6	0.06	<0.02	<0.5	0.7
W870666		4	13.2	1.33	27	0.6	0.07	<0.005	0.009	<0.001	<0.05	0.7	0.15	<0.02	<0.5	0.7
W870667		2	14.2	1.71	25	0.1	0.02	<0.005	0.010	0.001	<0.05	0.3	0.01	0.02	<0.5	0.6
W870668		3	18.0	1.94	49	0.4	0.03	<0.005	0.008	<0.001	<0.05	0.3	0.01	<0.02	<0.5	0.8
W870669		1	15.2	1.60	20	0.3	0.02	<0.005	0.008	<0.001	<0.05	0.3	0.01	0.02	<0.5	0.5
W870670		15	15.2	1.65	23	0.4	0.02	<0.005	0.009	<0.001	<0.05	0.2	0.01	0.03	<0.5	0.7
W870671		2	17.4	2.05	23	0.1	0.01	<0.005	0.008	<0.001	<0.05	0.2	0.01	0.02	<0.5	0.5
W870672		2	7.9	0.69	68	0.4	0.18	<0.005	0.007	<0.001	<0.05	<0.2	<0.01	0.16	<0.5	<0.5
W870673		1	13.4	1.62	29	0.4	0.95	<0.005	0.010	0.001	<0.05	0.3	0.44	0.10	<0.5	0.8
W870674		1	16.2	1.90	28	0.3	0.01	<0.005	0.008	<0.001	<0.05	0.2	<0.01	0.02	<0.5	<0.5
W870675		1	17.7	2.02	36	0.2	0.02	<0.005	0.009	<0.001	<0.05	0.3	0.01	<0.02	<0.5	<0.5
W870676		1	10.1	1.06	44	0.4	0.44	<0.005	0.010	<0.001	<0.05	<0.2	<0.01	0.11	<0.5	<0.5
W870677		1	19.1	2.04	47	0.3	0.04	<0.005	0.009	0.001	<0.05	0.4	0.02	<0.02	<0.5	0.5
W870678		1	20.8	2.31	56	0.4	0.02	<0.005	0.009	0.001	<0.05	0.3	0.01	<0.02	<0.5	<0.5

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

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
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: 12-MAR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18042514

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
W870639		15	99	10	3	8	8	18	68	0.003	<0.005	<0.001	0.028
W870640		153	5700	40	3	2180	8	25	79	0.176	0.734	0.375	11.10
W870641		59	118	20	<1	123	4	43	114	<0.001	<0.005	0.001	0.272
W870642		50	137	30	1	77	2	29	87	0.001	<0.005	0.001	0.505
W870643		53	74	20	1	100	3	46	107	<0.001	<0.005	0.001	0.115
W870644		49	143	10	1	91	<2	38	108	0.001	0.012	0.025	0.203
W870645		55	200	10	1	135	2	43	106	0.004	0.013	0.109	0.399
W870646		55	131	10	<1	117	2	42	114	0.001	0.005	0.053	0.264
W870647		50	120	20	<1	66	5	39	121	<0.001	<0.005	<0.001	0.178
W870648		47	196	20	1	55	2	32	113	0.001	<0.005	0.001	0.281
W870649		43	115	20	1	52	3	32	115	0.001	<0.005	0.001	0.135
W870650		43	52	10	1	47	3	37	100	0.001	<0.005	0.001	0.048
W870651		45	70	20	<1	53	<2	35	107	<0.001	<0.005	<0.001	0.059
W870652		49	89	20	1	58	<2	37	104	<0.001	<0.005	0.001	0.071
W870653		39	84	10	1	48	3	30	82	<0.001	<0.005	0.001	0.095
W870654		56	202	20	1	117	2	41	113	<0.001	<0.005	<0.001	0.425
W870655		53	105	10	<1	123	<2	43	110	<0.001	<0.005	0.001	0.200
W870656		49	99	10	2	105	<2	39	100	<0.001	<0.005	<0.001	0.120
W870657		49	93	10	1	105	2	41	93	<0.001	<0.005	0.001	0.081
W870658		56	215	20	1	145	2	47	109	0.008	<0.005	0.003	0.260
W870659		119	4680	20	5	4500	22	12	113	0.087	0.280	0.589	4.54
W870660		52	1205	10	1	280	3	27	106	0.070	0.134	0.554	1.105
W870661		64	633	20	1	202	4	43	130	0.021	0.039	0.346	0.946
W870662		60	502	30	<1	202	3	43	132	0.018	0.054	0.246	0.543
W870663		52	1030	20	1	274	3	35	93	0.051	0.127	0.539	0.879
W870664		56	774	20	<1	263	2	36	64	0.039	0.109	0.611	0.927
W870665		48	412	10	1	135	<2	24	86	0.020	0.025	0.119	0.478
W870666		45	305	20	<1	149	<2	25	94	0.010	0.031	0.152	0.365
W870667		60	127	30	1	148	2	39	126	<0.001	<0.005	0.002	0.221
W870668		59	216	20	1	140	<2	42	100	<0.001	<0.005	0.002	0.294
W870669		61	109	20	<1	159	<2	46	119	<0.001	<0.005	0.002	0.193
W870670		59	118	20	<1	149	2	45	120	<0.001	<0.005	0.001	0.186
W870671		57	111	10	1	100	4	43	120	<0.001	<0.005	<0.001	0.184
W870672		3	4	10	<1	8	15	3	26	<0.001	<0.005	<0.001	0.007
W870673		43	112	20	1	83	6	36	102	<0.001	<0.005	<0.001	0.186
W870674		50	103	10	<1	94	<2	41	101	<0.001	<0.005	0.001	0.183
W870675		51	136	20	1	92	<2	42	113	0.003	<0.005	<0.001	0.285
W870676		14	41	10	<1	23	16	11	48	<0.001	<0.005	<0.001	0.073
W870677		56	156	10	1	113	4	44	103	0.001	<0.005	0.001	0.383
W870678		48	138	10	<1	99	2	40	100	<0.001	<0.005	<0.001	0.222

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

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
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: 12-MAR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18042514

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
W870679		0.04	61.3	16.20	5.92	6.16	2.72	3.25	1.47	<0.01	0.48	0.12	0.13	0.05	0.06	0.97
W870680		2.58	48.1	15.30	12.85	13.00	5.07	2.35	0.30	0.03	0.94	0.25	0.09	0.02	0.01	1.41
W870681		2.58	46.1	14.15	14.40	11.80	6.40	1.97	0.44	0.02	1.07	0.24	0.11	0.01	0.01	1.44
W870682		2.60	54.4	14.35	8.63	8.53	6.74	3.69	0.85	0.04	0.62	0.14	0.19	0.05	0.04	1.33
W870683		2.63	55.4	14.65	8.60	7.99	7.00	3.68	1.41	0.04	0.64	0.14	0.20	0.07	0.06	0.81
W870684		2.37	49.2	16.15	13.50	10.35	7.82	2.34	0.31	0.01	1.03	0.19	0.10	0.01	0.01	-0.19
W870685		2.46	49.2	16.15	13.75	10.20	7.96	2.35	0.33	0.01	1.04	0.19	0.11	0.01	0.01	-0.20
W870686		2.31	48.9	15.60	13.95	9.99	8.14	2.32	0.33	0.01	1.11	0.20	0.12	0.01	0.01	-0.10
W870687		2.33	49.3	15.30	14.45	10.00	8.39	2.32	0.34	0.01	1.10	0.20	0.10	0.01	0.01	-0.34
W870688		2.37	49.3	15.60	14.25	10.15	7.66	2.41	0.32	0.01	1.14	0.20	0.11	0.01	0.01	-0.28
W870689		2.43	49.4	15.05	14.60	10.05	7.23	2.39	0.47	0.01	1.24	0.21	0.14	0.01	0.02	0.20
W870690		2.67	49.5	14.70	15.15	9.82	8.59	2.38	0.34	0.01	1.19	0.21	0.12	0.01	0.01	-0.09
W870691		2.56	48.9	13.95	15.30	9.76	7.57	2.36	0.38	0.01	1.32	0.22	0.14	0.02	0.01	-0.06
W870692		3.33	48.4	7.44	11.00	10.90	16.35	0.94	0.62	0.26	0.30	0.19	0.05	0.01	0.02	1.99
W870693		2.74	48.5	7.14	11.50	11.25	16.30	0.94	0.63	0.26	0.32	0.20	0.03	0.01	0.02	2.39
W870694		2.57	49.6	8.22	10.70	11.20	15.60	1.23	0.50	0.26	0.26	0.18	0.03	0.01	0.02	2.15
W870695		2.57	49.7	7.66	10.75	12.00	16.00	1.08	0.62	0.29	0.28	0.19	0.02	0.01	0.02	1.85
W870696		2.48	49.4	7.03	10.65	11.85	15.80	0.93	0.73	0.30	0.29	0.19	0.03	0.01	0.02	1.94
W870697		2.39	48.2	10.25	11.20	11.35	12.30	2.20	1.13	0.16	0.84	0.19	0.57	0.07	0.04	1.47
W870698		2.54	47.6	9.20	11.05	11.50	15.40	1.80	0.81	0.17	0.79	0.20	0.55	0.06	0.03	1.89
W870699		0.08	41.9	8.94	14.95	15.95	10.80	0.63	0.25	0.11	0.70	0.15	0.12	<0.01	0.03	4.30
W870700		2.56	47.2	9.58	11.00	11.25	14.35	1.91	0.94	0.16	0.85	0.20	0.57	0.07	0.04	1.69
W870701		2.49	47.0	9.79	11.15	11.20	13.95	1.94	0.90	0.15	0.85	0.21	0.59	0.06	0.03	1.74
W870702		2.68	46.5	9.70	11.00	11.00	14.60	1.73	0.77	0.15	0.84	0.20	0.60	0.06	0.03	1.87
W870703		2.04	49.2	8.05	11.10	11.20	14.70	1.28	0.90	0.22	0.65	0.21	0.36	0.02	0.03	1.74
W870704		2.67	48.9	8.09	11.10	11.10	14.55	1.11	0.85	0.25	0.48	0.21	0.22	0.02	0.03	2.11
W870705		2.25	48.2	7.36	11.40	11.45	15.80	0.87	0.63	0.31	0.30	0.21	0.02	0.01	0.02	2.45
W870706		2.56	48.0	8.31	11.55	10.80	16.55	1.00	0.51	0.28	0.27	0.18	0.03	<0.01	0.02	2.80
W870707		2.38	47.8	7.76	11.25	10.75	16.25	0.79	0.65	0.28	0.27	0.18	0.03	<0.01	0.02	2.45
W870708		2.41	50.8	7.10	10.85	11.05	15.55	0.74	0.86	0.29	0.34	0.21	0.03	0.01	0.03	2.13
W870709		2.59	51.1	8.23	9.96	10.85	15.00	0.97	0.89	0.26	0.29	0.19	0.02	0.01	0.03	2.51
W870710		2.41	50.1	7.83	10.15	10.10	15.30	0.76	0.86	0.26	0.31	0.19	0.03	0.01	0.02	2.26
W870711		2.39	51.1	9.82	10.80	8.34	14.75	0.88	1.42	0.16	0.25	0.20	0.02	0.02	0.03	2.84
W870712		2.09	49.3	12.00	9.82	7.30	13.85	1.10	1.76	0.11	0.19	0.18	0.02	0.02	0.03	3.44
W870713		2.51	50.7	22.9	4.64	10.10	4.32	3.24	1.79	0.03	0.17	0.07	0.02	0.06	0.03	2.65
W870714		2.35	51.5	28.3	1.63	10.95	0.59	4.61	1.08	<0.01	0.14	0.02	0.02	0.09	0.02	2.21
W870715		2.29	50.5	27.4	1.79	11.20	0.63	4.56	0.64	<0.01	0.15	0.02	0.03	0.08	0.02	1.94
W870716		0.09	47.5	12.75	20.7	6.29	6.73	2.20	0.64	0.03	1.27	0.20	0.16	0.02	0.02	1.24

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

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
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: 12-MAR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18042514

Sample Description	Method	TOT-ICP06	C-IR07	S-IR08	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
	Analyte	Total	C	S	Ba	Ce	Cr	Cs	Dy	Er	Eu	Ga	Gd	Ge	Hf	Ho
	Units	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.01	0.01	0.01	0.5	0.1	10	0.01	0.05	0.03	0.03	0.1	0.05	5	0.2	0.01
W870679		98.83	0.04	0.02	573	27.9	10	0.70	4.11	2.47	0.83	17.4	3.89	<5	4.0	0.87
W870680		99.72	0.30	0.05	108.5	8.9	220	0.44	3.26	2.13	0.81	18.9	2.59	<5	1.0	0.68
W870681		98.16	0.13	0.11	136.0	12.4	190	1.02	3.48	2.15	0.98	19.1	3.04	<5	1.2	0.73
W870682		99.60	0.02	0.05	331	54.8	300	1.56	3.49	1.91	1.44	19.8	4.62	<5	3.4	0.61
W870683		100.69	0.01	0.10	513	56.0	300	1.83	3.49	1.79	1.54	20.7	4.50	<5	3.5	0.63
W870684		100.83	0.01	0.02	107.0	14.4	90	0.46	3.40	2.27	0.92	18.0	3.04	<5	1.9	0.71
W870685		101.11	0.01	0.02	109.0	15.0	80	0.61	3.49	2.24	0.85	18.0	2.96	<5	1.8	0.72
W870686		100.59	<0.01	0.01	113.0	15.7	80	0.63	3.56	2.32	0.95	18.2	3.19	<5	2.0	0.79
W870687		101.19	0.01	0.01	111.5	15.8	80	0.59	3.64	2.27	0.93	17.7	3.18	<5	1.9	0.75
W870688		100.89	0.01	0.01	111.5	15.8	80	0.49	3.72	2.36	0.91	17.7	2.95	<5	2.0	0.79
W870689		101.02	0.02	0.02	139.5	18.0	90	0.99	3.78	2.55	1.01	18.5	3.66	<5	2.2	0.86
W870690		101.94	0.01	0.02	126.5	16.6	90	0.88	3.65	2.52	1.05	17.9	3.44	<5	2.3	0.80
W870691		99.88	0.03	0.02	132.5	18.7	100	1.03	4.43	2.61	1.11	18.4	3.80	<5	2.5	0.91
W870692		98.47	0.07	0.02	159.5	11.3	1890	1.40	1.38	0.82	0.50	8.0	1.63	<5	0.6	0.27
W870693		99.49	0.08	0.02	166.5	8.6	1950	0.98	1.50	0.87	0.42	8.6	1.55	<5	0.7	0.30
W870694		99.96	0.06	0.02	156.0	8.1	1930	1.25	1.27	0.81	0.42	8.4	1.27	<5	0.9	0.24
W870695		100.47	0.05	0.01	167.5	7.6	2180	1.71	1.37	0.93	0.31	8.6	1.31	<5	0.6	0.28
W870696		99.17	0.06	0.01	203	9.4	2220	1.66	1.45	1.08	0.39	8.0	1.58	<5	0.9	0.31
W870697		99.97	0.04	0.03	595	35.6	10	3.27	4.85	3.22	1.08	20.0	4.56	<5	5.4	0.96
W870698		101.05	0.03	0.03	303	135.5	1280	0.91	5.62	2.31	3.39	13.9	10.30	<5	4.7	0.88
W870699		98.83	0.24	2.72	299	19.9	810	0.51	2.60	1.43	0.68	10.2	2.55	<5	1.9	0.48
W870700		99.81	0.03	0.04	417	150.0	1280	1.21	6.21	2.57	3.86	16.0	11.55	<5	5.5	1.06
W870701		99.56	0.03	0.04	314	145.0	1140	1.46	6.09	2.41	3.64	14.7	10.80	<5	5.1	0.93
W870702		99.05	0.06	0.04	248	142.5	1140	0.85	5.86	2.57	3.79	15.0	11.20	<5	5.1	0.92
W870703		99.66	0.03	0.03	279	77.2	1620	0.60	3.91	1.73	2.14	11.4	6.59	<5	3.4	0.64
W870704		99.02	0.03	0.05	258	50.7	1850	0.84	2.84	1.33	1.40	10.3	4.26	<5	2.0	0.49
W870705		99.03	0.05	0.05	205	12.3	2300	0.69	1.41	0.98	0.44	9.4	1.73	<5	0.6	0.31
W870706		100.30	0.06	0.07	166.0	10.1	2140	0.99	1.32	0.80	0.43	9.2	1.34	<5	0.5	0.28
W870707		98.48	0.07	0.03	165.5	7.1	2080	1.16	1.34	0.91	0.39	8.5	1.29	<5	0.6	0.27
W870708		99.99	0.05	0.02	242	9.5	2120	1.67	1.80	1.08	0.42	9.2	1.73	<5	0.8	0.31
W870709		100.31	0.04	0.02	68.3	7.1	130	0.83	3.04	1.83	0.67	15.0	2.44	<5	1.7	0.66
W870710		98.18	0.04	0.02	215	9.6	1950	1.23	1.37	0.76	0.41	9.2	1.50	<5	0.6	0.29
W870711		100.63	0.03	0.02	272	7.7	1350	1.44	1.33	0.89	0.37	11.5	1.28	<5	0.6	0.31
W870712		99.12	0.03	0.01	298	4.2	830	2.22	0.68	0.52	0.23	11.6	0.54	<5	0.3	0.13
W870713		100.72	0.04	0.02	321	8.1	240	7.09	0.55	0.30	0.41	19.4	0.69	<5	0.7	0.11
W870714		101.16	0.05	0.01	215	8.3	10	6.95	0.40	0.20	0.43	22.1	0.51	<5	0.3	0.07
W870715		98.96	0.07	0.05	166.0	7.8	10	4.49	0.43	0.32	0.46	21.9	0.60	<5	0.3	0.10
W870716		99.75	0.08	1.80	229	27.9	240	0.99	2.49	1.47	1.06	16.2	2.87	<5	2.5	0.52

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

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
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: 12-MAR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18042514

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
W870679		12.3	0.41	3.2	17.0	3.62	27.1	3.97	1	467	0.1	0.63	2.71	0.35	1.19	149
W870680		3.6	0.31	1.2	7.1	1.40	5.4	2.05	<1	179.5	<0.1	0.49	0.29	0.28	0.06	302
W870681		5.0	0.32	1.6	9.0	1.85	10.7	2.45	<1	178.5	0.1	0.54	0.52	0.29	0.13	312
W870682		24.5	0.22	5.2	28.4	7.01	21.0	5.62	1	422	0.3	0.64	3.82	0.22	0.94	149
W870683		25.6	0.25	5.2	29.8	7.07	37.8	6.06	1	587	0.3	0.59	3.91	0.24	0.98	153
W870684		6.1	0.31	3.9	9.5	1.91	7.0	2.81	2	152.0	<0.1	0.54	0.97	0.30	0.45	264
W870685		6.6	0.30	3.8	9.9	2.02	7.9	2.76	1	155.0	<0.1	0.56	0.94	0.31	0.25	267
W870686		6.7	0.33	4.2	10.4	2.15	8.3	2.94	1	146.5	<0.1	0.57	0.96	0.30	0.25	279
W870687		6.7	0.30	3.8	10.0	2.14	8.3	2.92	1	145.5	<0.1	0.64	0.90	0.34	0.27	282
W870688		6.8	0.28	4.0	10.4	2.13	7.4	2.90	1	147.0	<0.1	0.59	0.92	0.32	0.25	288
W870689		8.1	0.36	4.3	11.6	2.47	12.1	3.31	1	146.0	<0.1	0.61	1.03	0.37	0.33	310
W870690		7.3	0.32	4.1	11.1	2.30	8.2	3.15	1	141.5	<0.1	0.64	0.98	0.34	0.26	312
W870691		8.3	0.38	4.7	12.3	2.59	9.8	3.50	1	142.5	0.1	0.69	1.18	0.37	0.43	350
W870692		4.6	0.12	0.8	7.7	1.58	17.7	2.06	<1	96.6	<0.1	0.26	0.47	0.11	0.16	199
W870693		3.6	0.13	0.9	5.9	1.25	16.8	1.54	<1	81.8	<0.1	0.24	0.47	0.13	0.16	211
W870694		3.4	0.11	0.6	5.2	1.08	10.8	1.49	<1	127.5	<0.1	0.22	1.99	0.12	0.51	192
W870695		3.2	0.11	0.6	5.1	1.11	16.7	1.45	<1	113.5	<0.1	0.22	0.85	0.12	0.24	197
W870696		3.9	0.12	0.8	6.1	1.23	19.8	1.53	<1	107.5	<0.1	0.25	1.43	0.12	0.36	212
W870697		15.6	0.51	8.7	20.6	4.66	72.8	4.82	1	139.0	0.4	0.82	1.69	0.47	0.41	55
W870698		54.8	0.26	9.9	81.7	18.50	13.4	15.90	1	520	0.2	1.30	6.25	0.29	1.23	187
W870699		9.7	0.21	6.2	11.2	2.49	4.9	2.55	2	63.0	0.1	0.46	1.78	0.20	0.89	189
W870700		60.5	0.26	11.4	91.2	20.4	17.4	17.90	1	640	0.4	1.39	7.02	0.31	1.44	203
W870701		58.6	0.23	10.9	87.5	19.65	16.1	17.55	1	556	0.4	1.34	6.60	0.26	1.47	192
W870702		56.6	0.26	10.8	84.9	19.30	13.7	17.10	1	543	0.3	1.33	6.58	0.28	1.39	181
W870703		31.4	0.19	6.3	48.9	10.65	20.0	9.40	1	226	0.1	0.82	3.68	0.23	0.89	209
W870704		22.3	0.16	3.5	29.7	6.80	19.9	5.80	1	204	<0.1	0.58	2.85	0.18	0.77	203
W870705		6.5	0.12	0.6	6.8	1.49	15.3	1.63	<1	99.3	<0.1	0.26	0.57	0.12	0.22	218
W870706		5.2	0.11	0.4	6.0	1.29	12.5	1.43	<1	92.6	<0.1	0.24	0.25	0.12	0.20	199
W870707		3.2	0.11	0.4	5.1	1.03	19.6	1.21	<1	79.4	<0.1	0.21	0.34	0.13	0.15	196
W870708		3.9	0.13	0.7	6.5	1.38	23.6	1.74	<1	113.0	<0.1	0.30	0.46	0.15	0.17	220
W870709		2.5	0.31	2.3	6.1	1.14	14.3	1.99	1	101.5	<0.1	0.47	0.22	0.31	0.07	244
W870710		3.9	0.11	2.2	6.3	1.35	26.6	1.38	<1	110.0	<0.1	0.23	0.39	0.12	0.11	203
W870711		3.1	0.15	1.1	4.8	1.05	48.0	1.36	<1	203	<0.1	0.21	0.41	0.15	0.16	181
W870712		2.0	0.07	0.7	2.4	0.53	54.2	0.51	<1	238	<0.1	0.09	0.34	0.08	0.15	123
W870713		4.3	0.05	0.7	3.8	0.93	59.9	0.74	<1	559	<0.1	0.11	0.48	0.05	0.13	60
W870714		4.9	0.02	0.6	3.5	0.88	42.0	0.52	<1	789	<0.1	0.06	0.30	0.04	0.18	20
W870715		4.1	0.03	0.7	3.5	0.94	21.5	0.70	<1	723	<0.1	0.09	0.33	0.03	0.14	28
W870716		12.8	0.19	7.3	14.6	3.48	16.6	3.09	4	267	0.2	0.43	1.58	0.20	0.49	123

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

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
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: 12-MAR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18042514

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
W870679		5	22.4	2.61	143	0.9	0.05	0.007	0.008	<0.001	0.13	<0.2	<0.01	0.04	<0.5	<0.5
W870680		1	16.8	1.92	31	0.2	0.02	<0.005	0.007	<0.001	<0.05	0.3	0.01	<0.02	<0.5	<0.5
W870681		1	18.8	2.04	42	0.5	0.01	<0.005	0.010	0.001	<0.05	0.2	0.01	<0.02	<0.5	0.5
W870682		1	16.5	1.58	127	0.3	0.02	<0.005	0.006	<0.001	<0.05	<0.2	<0.01	0.08	<0.5	<0.5
W870683		2	16.5	1.72	132	0.4	0.03	<0.005	0.007	<0.001	<0.05	<0.2	<0.01	0.13	<0.5	<0.5
W870684		1	18.6	2.16	75	0.4	0.01	<0.005	0.012	<0.001	<0.05	0.3	<0.01	0.06	<0.5	0.5
W870685		<1	19.3	2.05	70	0.2	0.01	<0.005	0.012	0.001	<0.05	0.2	<0.01	0.06	<0.5	<0.5
W870686		1	20.0	1.96	73	0.5	0.02	<0.005	0.013	0.001	<0.05	0.3	<0.01	0.07	<0.5	<0.5
W870687		<1	20.1	2.06	73	0.5	0.02	0.005	0.015	0.001	<0.05	0.3	<0.01	0.07	<0.5	<0.5
W870688		<1	20.5	2.06	72	0.4	0.02	<0.005	0.014	<0.001	<0.05	0.3	<0.01	0.06	<0.5	<0.5
W870689		<1	22.3	2.28	84	0.5	0.02	<0.005	0.013	<0.001	<0.05	0.3	<0.01	0.10	<0.5	0.6
W870690		3	21.8	2.10	80	0.6	0.02	<0.005	0.014	0.001	<0.05	0.4	<0.01	0.10	<0.5	<0.5
W870691		<1	24.5	2.47	91	0.4	0.02	<0.005	0.012	0.001	<0.05	0.5	<0.01	0.09	<0.5	0.5
W870692		1	7.5	0.77	22	0.5	0.02	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	0.03	<0.5	0.5
W870693		<1	7.9	0.80	23	3.7	0.02	<0.005	0.005	<0.001	<0.05	<0.2	<0.01	0.03	<0.5	0.6
W870694		<1	7.0	0.67	25	0.4	0.01	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	<0.02	<0.5	0.5
W870695		1	7.4	0.77	18	0.2	0.01	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	0.02	<0.5	0.5
W870696		1	8.0	0.82	30	0.2	0.01	<0.005	<0.005	<0.001	<0.05	0.2	<0.01	0.02	<0.5	<0.5
W870697		5	26.5	3.14	206	0.8	0.04	<0.005	0.010	<0.001	<0.05	<0.2	<0.01	0.02	<0.5	0.5
W870698		1	25.2	1.58	188	0.9	0.06	<0.005	0.008	<0.001	<0.05	<0.2	0.01	<0.02	<0.5	<0.5
W870699		1	14.1	1.30	75	47.0	0.30	0.113	0.052	0.016	1.39	12.3	1.26	0.06	3.0	1.1
W870700		1	27.5	1.83	230	1.4	0.06	<0.005	0.010	0.001	<0.05	<0.2	<0.01	<0.02	<0.5	<0.5
W870701		1	25.9	1.68	209	0.7	0.05	<0.005	0.009	0.001	<0.05	<0.2	<0.01	<0.02	<0.5	0.6
W870702		5	25.6	1.61	208	1.0	0.06	<0.005	0.008	0.002	<0.05	0.2	<0.01	<0.02	<0.5	<0.5
W870703		1	18.8	1.41	133	0.6	0.02	<0.005	0.006	0.001	<0.05	0.2	<0.01	<0.02	<0.5	0.5
W870704		1	13.1	1.14	76	1.0	0.04	<0.005	0.007	0.002	<0.05	0.2	<0.01	0.02	<0.5	<0.5
W870705		1	8.1	0.84	18	0.8	0.02	<0.005	<0.005	0.001	<0.05	0.2	<0.01	0.02	<0.5	<0.5
W870706		<1	7.2	0.73	15	1.1	0.05	<0.005	<0.005	0.001	<0.05	0.2	0.01	0.02	<0.5	<0.5
W870707		1	6.9	0.79	17	0.3	0.02	<0.005	<0.005	0.001	<0.05	<0.2	<0.01	0.03	<0.5	<0.5
W870708		<1	9.2	0.90	26	0.4	0.02	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	0.02	<0.5	<0.5
W870709		4	16.9	2.08	59	0.5	0.02	<0.005	<0.005	0.001	<0.05	<0.2	<0.01	<0.02	<0.5	<0.5
W870710		1	7.1	0.77	19	0.3	0.02	<0.005	<0.005	0.002	<0.05	<0.2	<0.01	0.02	<0.5	<0.5
W870711		1	7.2	0.85	21	0.7	0.02	<0.005	<0.005	0.002	<0.05	0.2	0.02	<0.02	<0.5	<0.5
W870712		<1	3.7	0.48	10	<0.1	0.01	<0.005	<0.005	0.001	<0.05	<0.2	0.02	0.02	<0.5	<0.5
W870713		1	3.1	0.32	29	0.3	0.10	<0.005	<0.005	0.001	<0.05	0.2	0.28	0.03	<0.5	<0.5
W870714		<1	1.9	0.22	11	0.5	0.01	<0.005	<0.005	<0.001	<0.05	<0.2	0.02	0.03	<0.5	<0.5
W870715		1	2.3	0.15	11	0.4	0.06	<0.005	<0.005	<0.001	<0.05	0.2	0.26	0.02	<0.5	<0.5
W870716		6	13.7	1.26	106	3.8	0.72	0.009	0.065	0.006	0.32	5.1	0.53	0.11	2.1	1.0

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

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
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: 12-MAR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18042514

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
W870679		13	86	10	2	7	6	16	58	0.025	<0.005	0.004	0.030
W870680		47	89	10	1	99	3	39	97	<0.001	<0.005	<0.001	0.163
W870681		52	137	20	1	97	<2	40	122	<0.001	<0.005	<0.001	0.214
W870682		39	36	20	<1	146	3	22	90	<0.001	<0.005	0.001	0.061
W870683		40	51	20	1	151	8	22	98	<0.001	<0.005	0.001	0.079
W870684		63	161	10	<1	197	3	27	106	<0.001	0.007	0.014	0.139
W870685		62	167	10	1	204	3	24	101	<0.001	0.007	0.016	0.157
W870686		64	171	10	1	208	2	27	106	0.001	0.006	0.017	0.160
W870687		68	182	10	1	222	2	29	111	0.001	0.008	0.018	0.169
W870688		64	184	10	<1	180	2	29	109	0.002	0.007	0.019	0.185
W870689		59	203	10	1	165	4	31	120	0.001	0.006	0.020	0.220
W870690		65	184	10	1	226	3	28	114	0.001	0.006	0.019	0.181
W870691		59	204	10	1	165	4	32	116	0.002	0.005	0.021	0.200
W870692		73	10	30	<1	389	2	47	69	<0.001	<0.005	0.003	0.019
W870693		71	6	30	<1	368	<2	47	64	<0.001	<0.005	0.003	0.032
W870694		67	3	30	1	382	<2	46	59	<0.001	<0.005	0.004	0.016
W870695		69	5	30	<1	384	<2	48	58	<0.001	<0.005	0.006	0.011
W870696		67	5	30	<1	357	<2	49	55	<0.001	<0.005	0.005	0.006
W870697		59	30	20	<1	273	2	34	77	<0.001	<0.005	0.004	0.028
W870698		63	28	30	<1	454	<2	29	91	<0.001	<0.005	0.001	0.034
W870699		162	5920	40	3	2250	8	25	83	0.121	0.715	0.373	12.00
W870700		70	23	30	<1	444	<2	30	95	<0.001	<0.005	0.001	0.046
W870701		61	19	40	<1	426	3	29	96	<0.001	<0.005	0.003	0.041
W870702		66	22	40	1	465	<2	28	93	<0.001	<0.005	0.002	0.050
W870703		65	20	30	1	402	<2	40	77	<0.001	<0.005	0.003	0.019
W870704		69	25	40	2	427	5	44	70	<0.001	<0.005	0.002	0.022
W870705		75	6	40	<1	483	3	54	59	<0.001	0.005	0.004	0.016
W870706		99	49	50	<1	538	<2	49	52	<0.001	<0.005	0.004	0.041
W870707		81	10	40	<1	516	<2	50	61	<0.001	<0.005	0.001	0.027
W870708		67	9	40	<1	375	<2	52	58	<0.001	<0.005	0.001	0.012
W870709		62	11	40	<1	326	2	47	55	<0.001	<0.005	0.003	0.015
W870710		64	10	40	<1	275	3	52	54	<0.001	0.008	0.010	0.025
W870711		60	9	60	3	178	<2	37	57	<0.001	0.014	0.051	0.009
W870712		56	2	70	1	152	<2	22	43	<0.001	0.013	0.027	<0.003
W870713		25	10	40	<1	68	<2	7	21	0.004	0.075	0.102	0.023
W870714		5	9	30	<1	21	<2	1	5	0.006	0.008	0.008	0.006
W870715		12	50	20	<1	54	2	2	5	<0.001	0.094	0.057	0.068
W870716		113	4450	20	4	4280	22	12	103	0.068	0.285	0.599	5.05

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

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
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: 12-MAR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18042514

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		