ALS Canada Ltd.

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

Finalized Date: 12-APR-2018
Account: NAPEHZEU

CERTIFICATE TB18070715

Project: Gfields

P.O. No.: 178845

This report is for 78 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 29-MAR-2018.

The following have access to data associated with this certificate:

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

SAMPLE PREPARATION

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

ANALYTICAL PROCEDURES

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

To: **NORTH AMERICAN PALLADIUM EXPLORATION**
ATTN: DAVID BENSON
556 TENTH AVE.
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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 TB18070715

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
X101378		0.04	62.6	16.10	5.98	6.55	2.71	3.28	1.50	<0.01	0.49	0.12	0.14	0.06	0.07	1.00
X101379		0.08	42.4	9.04	14.75	15.55	10.90	0.63	0.23	0.11	0.70	0.14	0.13	<0.01	0.03	3.88
X101380		2.18	53.2	21.7	5.98	9.95	1.80	3.39	0.46	<0.01	0.41	0.09	0.05	0.05	0.02	1.60
X101381		2.23	54.0	22.2	5.85	11.00	1.77	3.68	0.58	<0.01	0.39	0.09	0.07	0.05	0.02	2.11
X101382		2.17	51.8	21.3	6.68	10.45	2.16	4.40	0.63	<0.01	0.41	0.08	0.06	0.03	0.02	3.69
X101383		2.16	52.1	21.8	6.01	9.11	1.91	3.81	0.70	<0.01	0.43	0.08	0.08	0.05	0.03	2.82
X101384		2.18	53.9	21.5	6.70	10.80	1.93	3.47	0.43	0.01	0.48	0.10	0.06	0.05	0.02	1.71
X101385		2.17	54.6	21.6	6.76	10.95	1.95	3.59	0.41	0.01	0.47	0.10	0.08	0.05	0.02	0.88
X101386		2.10	55.8	22.0	6.35	10.00	1.97	3.76	0.41	0.01	0.48	0.09	0.06	0.05	0.02	0.98
X101387		2.34	52.4	22.2	7.03	10.25	1.98	3.85	0.41	<0.01	0.47	0.10	0.07	0.05	0.02	1.08
X101388		2.26	55.2	21.9	6.18	10.10	1.92	3.72	0.41	<0.01	0.45	0.09	0.07	0.05	0.02	0.97
X101389		2.18	54.6	22.2	6.52	10.35	1.85	3.66	0.39	0.01	0.43	0.09	0.06	0.05	0.03	0.85
X101390		2.23	54.7	22.3	6.00	10.25	1.71	3.72	0.46	<0.01	0.41	0.08	0.05	0.05	0.02	1.24
X101391		1.86	54.6	22.3	6.37	10.25	1.81	3.68	0.44	<0.01	0.42	0.09	0.06	0.05	0.02	1.16
X101392		2.55	54.3	22.1	5.99	10.05	1.75	3.72	0.47	<0.01	0.41	0.09	0.06	0.05	0.03	0.88
X101393		2.23	53.5	21.6	6.18	9.94	1.75	3.58	0.68	<0.01	0.40	0.08	0.08	0.05	0.03	2.55
X101394		2.15	54.0	21.9	5.87	9.93	1.74	3.64	0.70	0.01	0.43	0.09	0.07	0.05	0.03	1.35
X101395		2.25	55.3	22.3	6.03	10.15	1.76	3.74	0.58	<0.01	0.41	0.08	0.07	0.05	0.03	0.93
X101396		2.33	54.7	21.9	5.85	9.97	1.73	3.66	0.63	<0.01	0.42	0.08	0.07	0.05	0.03	0.98
X101397		2.22	54.2	21.6	6.01	9.86	1.78	3.64	0.60	0.01	0.40	0.08	0.08	0.05	0.03	1.21
X101398		0.08	46.8	12.75	21.0	6.32	6.68	2.19	0.64	0.03	1.25	0.20	0.15	0.03	0.03	1.30
X101399		2.11	54.6	21.7	5.99	9.92	1.85	3.67	0.61	<0.01	0.41	0.08	0.07	0.05	0.03	1.09
X101400		2.24	54.6	21.6	5.89	9.74	1.79	3.77	0.74	<0.01	0.39	0.08	0.06	0.05	0.03	1.54
X101401		2.22	54.5	21.7	5.76	9.87	1.78	3.54	0.71	<0.01	0.38	0.08	0.07	0.05	0.03	1.29
X101402		2.31	54.1	21.4	6.49	9.77	1.97	3.45	0.69	0.01	0.42	0.09	0.07	0.05	0.03	1.41
X101403		2.17	54.4	21.8	5.93	9.83	1.76	3.61	0.66	<0.01	0.41	0.09	0.07	0.05	0.03	1.14
X101404		2.14	53.7	21.5	6.28	9.00	1.87	3.87	0.92	0.01	0.43	0.09	0.07	0.04	0.03	2.12
X101405		2.14	53.2	21.2	6.52	9.93	1.94	3.63	0.56	0.01	0.45	0.09	0.06	0.04	0.02	2.19
X101406		2.08	54.1	21.6	6.43	9.86	1.90	3.57	0.65	0.01	0.41	0.09	0.06	0.05	0.03	1.50
X101407		2.05	54.7	22.2	6.15	10.10	1.79	3.59	0.65	<0.01	0.39	0.09	0.06	0.05	0.03	1.10
X101408		1.97	53.8	21.7	6.29	10.25	1.75	3.53	0.71	<0.01	0.41	0.09	0.08	0.05	0.03	1.72
X101409		2.05	54.5	22.0	6.21	10.05	1.71	3.59	0.69	<0.01	0.44	0.09	0.08	0.05	0.03	0.88
X101410		2.07	54.1	21.0	7.83	10.15	2.34	3.43	0.71	0.01	0.50	0.11	0.08	0.05	0.03	1.03
X101411		2.06	52.6	21.0	7.09	9.94	2.03	3.49	0.54	<0.01	0.49	0.10	0.08	0.05	0.03	0.75
X101412		2.15	54.7	21.9	6.46	10.10	1.83	3.63	0.63	<0.01	0.45	0.09	0.08	0.05	0.03	0.96
X101413		2.09	54.6	21.9	6.43	10.05	1.86	3.65	0.60	<0.01	0.46	0.09	0.06	0.05	0.03	0.86
X101414		2.09	54.5	21.9	6.43	10.10	1.84	3.65	0.55	<0.01	0.44	0.09	0.08	0.05	0.02	1.54
X101415		2.06	50.4	22.7	6.34	10.70	1.92	4.01	0.39	<0.01	0.44	0.10	0.08	0.05	0.02	3.55
X101416		2.07	51.9	22.0	6.99	10.30	2.06	3.54	0.69	<0.01	0.46	0.10	0.08	0.05	0.03	2.43
X101417		2.15	54.2	21.9	6.49	10.30	1.89	3.64	0.48	<0.01	0.44	0.09	0.08	0.05	0.02	1.30

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Finalized Date: 12-APR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18070715

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
X101378		100.60	0.08	0.03	539	28.6	10	0.66	3.70	2.26	0.91	15.2	3.44	<5	3.3	0.79
X101379		98.49	0.25	2.50	283	20.6	790	0.38	2.57	1.31	0.79	11.7	2.63	<5	2.0	0.57
X101380		98.70	0.11	0.05	146.0	15.8	30	0.87	1.26	0.86	0.64	22.4	1.49	<5	1.4	0.25
X101381		101.81	0.13	0.05	161.5	15.8	30	1.05	1.25	0.75	0.65	21.3	1.37	<5	1.5	0.29
X101382		101.71	0.20	0.01	187.0	16.2	30	0.98	1.44	0.76	0.63	18.1	1.34	<5	1.2	0.31
X101383		98.93	0.23	0.03	258	18.0	40	1.21	1.66	0.91	0.75	21.9	1.51	<5	1.3	0.33
X101384		101.16	0.17	0.04	167.5	16.3	40	0.66	1.38	0.93	0.68	21.1	1.60	<5	1.3	0.28
X101385		101.47	0.06	0.02	152.0	16.7	30	0.43	1.50	0.97	0.75	21.2	1.46	<5	1.1	0.33
X101386		101.98	0.09	0.01	192.0	19.4	40	0.44	1.85	1.11	0.82	23.7	1.89	<5	1.8	0.36
X101387		99.91	0.10	0.02	183.0	19.4	40	0.35	1.86	1.28	0.70	22.5	1.76	<5	1.8	0.34
X101388		101.08	0.08	0.01	162.0	19.7	40	0.48	1.82	1.17	0.77	23.0	1.75	<5	1.5	0.39
X101389		101.09	0.07	0.02	226	19.5	30	0.54	1.66	1.07	0.71	23.2	1.93	<5	1.6	0.39
X101390		100.99	0.12	0.01	223	19.5	30	0.71	1.74	1.06	0.82	24.0	1.48	<5	1.5	0.34
X101391		101.25	0.14	0.03	215	19.8	30	0.79	1.69	1.09	0.89	23.1	1.93	<5	1.5	0.36
X101392		99.90	0.07	0.02	235	17.8	30	0.53	1.60	0.89	0.84	23.0	1.62	<5	1.5	0.36
X101393		100.42	0.28	0.02	223	19.0	30	0.94	1.88	0.91	0.80	23.7	1.63	<5	1.4	0.37
X101394		99.81	0.12	0.01	268	19.1	40	0.57	1.54	0.92	0.73	23.4	1.66	<5	2.2	0.33
X101395		101.43	0.08	0.01	259	19.7	30	0.77	1.81	0.99	0.79	22.5	1.63	<5	1.8	0.34
X101396		100.07	0.09	0.01	266	21.1	30	0.86	1.77	0.96	0.59	23.6	1.89	<5	1.7	0.42
X101397		99.55	0.12	0.02	244	19.6	30	0.77	1.58	1.03	0.68	22.9	1.71	<5	2.0	0.36
X101398		99.37	0.08	1.73	217	26.6	240	0.90	2.74	1.34	1.00	17.3	3.10	<5	2.5	0.50
X101399		100.07	0.09	0.03	258	20.0	30	0.93	1.64	1.02	0.75	23.3	1.76	<5	1.9	0.39
X101400		100.28	0.16	0.01	306	19.6	30	0.70	1.80	0.88	0.68	23.2	1.76	<5	2.1	0.43
X101401		99.76	0.08	0.03	239	22.5	30	0.95	1.73	1.17	0.75	22.2	1.93	<5	1.5	0.42
X101402		99.95	0.16	0.05	250	19.7	40	1.19	1.69	0.92	0.72	22.7	1.61	<5	2.0	0.41
X101403		99.78	0.09	0.03	242	20.3	30	1.03	1.50	1.02	0.65	23.4	1.69	<5	1.9	0.36
X101404		99.93	0.09	0.05	246	19.9	30	1.14	1.53	0.97	0.74	22.9	1.76	<5	1.8	0.37
X101405		99.84	0.18	0.04	178.5	19.0	40	0.89	1.64	0.86	0.70	23.4	1.54	<5	1.2	0.37
X101406		100.26	0.14	0.05	247	18.4	40	1.04	1.73	0.94	0.73	23.3	1.80	<5	1.4	0.34
X101407		100.90	0.08	0.03	237	19.2	30	1.01	1.41	0.89	0.66	23.7	1.80	<5	1.5	0.39
X101408		100.41	0.19	0.03	234	20.1	30	0.75	1.50	0.95	0.77	24.3	1.88	<5	1.5	0.37
X101409		100.32	0.08	0.03	274	21.2	30	0.87	1.65	0.96	0.72	24.2	1.80	<5	1.5	0.37
X101410		101.37	0.12	0.12	282	20.7	50	0.65	1.76	1.18	0.84	23.9	2.05	<5	2.5	0.41
X101411		98.19	0.06	0.02	252	19.3	30	0.66	2.10	1.07	0.82	24.0	2.00	<5	1.4	0.40
X101412		100.91	0.08	0.05	243	21.3	30	0.95	1.80	0.98	0.74	24.4	1.77	<5	1.8	0.44
X101413		100.64	0.07	0.04	227	20.1	30	0.96	1.92	0.96	0.76	24.3	1.61	<5	1.7	0.37
X101414		101.19	0.17	0.04	197.0	19.4	30	0.94	1.75	0.84	0.78	23.0	1.92	<5	2.0	0.35
X101415		100.70	0.57	0.01	195.0	20.5	30	0.78	1.65	0.98	0.78	24.4	1.81	<5	1.6	0.37
X101416		100.63	0.31	0.05	285	19.2	30	1.12	1.88	1.05	0.71	24.0	1.72	<5	1.5	0.37
X101417		100.88	0.15	0.03	214	18.6	30	0.72	1.54	0.79	0.75	24.7	1.68	<5	1.6	0.35

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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
X101378		12.9	0.34	2.5	17.4	3.83	25.6	4.00	1	471	0.2	0.58	2.70	0.31	1.22	142
X101379		9.9	0.21	5.6	10.9	2.62	5.1	2.53	2	67.0	0.4	0.47	1.99	0.20	0.93	187
X101380		7.9	0.11	1.4	7.3	1.90	10.8	1.50	<1	465	0.2	0.21	1.43	0.10	0.42	141
X101381		7.8	0.11	1.2	7.6	1.85	13.8	1.26	<1	420	0.2	0.19	1.32	0.09	0.40	131
X101382		7.6	0.12	1.2	7.9	1.90	18.2	1.32	<1	290	0.1	0.24	1.35	0.12	0.34	125
X101383		9.0	0.10	1.4	8.4	2.18	18.9	1.57	2	448	0.2	0.22	1.59	0.13	0.45	139
X101384		8.0	0.13	1.3	8.2	1.98	9.2	1.47	1	438	0.2	0.21	1.37	0.13	0.37	143
X101385		8.1	0.13	1.4	8.2	2.06	7.4	1.65	1	436	0.2	0.25	1.50	0.12	0.45	133
X101386		9.6	0.19	1.8	9.3	2.35	9.0	1.71	<1	499	0.2	0.29	1.98	0.16	0.63	149
X101387		9.3	0.16	1.7	9.4	2.33	7.0	1.98	<1	464	0.2	0.29	1.55	0.16	0.50	132
X101388		9.6	0.14	1.6	9.7	2.38	8.6	1.98	<1	462	0.2	0.28	1.57	0.16	0.43	131
X101389		9.4	0.16	2.2	9.9	2.29	8.7	1.78	1	446	0.2	0.23	1.58	0.18	0.48	125
X101390		9.8	0.13	2.1	9.0	2.29	11.3	1.84	1	445	0.2	0.28	1.58	0.17	0.46	117
X101391		10.1	0.17	2.4	9.7	2.25	9.8	1.74	1	449	0.2	0.25	1.88	0.15	0.45	113
X101392		8.7	0.12	2.7	8.6	2.00	10.1	1.52	<1	436	0.2	0.23	1.73	0.17	0.43	112
X101393		9.2	0.14	2.6	9.4	2.17	19.0	1.93	<1	421	0.2	0.24	1.82	0.15	0.47	112
X101394		9.2	0.15	2.5	8.5	2.29	17.0	1.76	<1	427	0.2	0.25	1.48	0.12	0.47	108
X101395		9.3	0.15	2.4	9.1	2.26	14.0	1.75	1	435	0.2	0.25	1.82	0.16	0.45	106
X101396		10.2	0.16	2.5	9.9	2.49	14.5	2.11	1	422	0.2	0.30	1.69	0.18	0.42	112
X101397		9.8	0.16	2.6	9.2	2.39	13.5	1.92	1	405	0.2	0.29	1.80	0.15	0.49	110
X101398		12.3	0.21	7.1	13.6	3.05	16.5	2.87	3	253	0.5	0.42	1.48	0.20	0.43	122
X101399		9.8	0.15	2.8	9.3	2.30	14.2	2.04	1	417	0.3	0.31	1.82	0.16	0.44	117
X101400		9.6	0.17	2.7	9.8	2.43	17.2	2.07	<1	418	0.2	0.25	1.77	0.14	0.44	111
X101401		10.9	0.15	2.8	10.1	2.56	17.3	2.43	1	412	0.2	0.28	2.44	0.15	0.48	104
X101402		9.4	0.13	3.1	9.3	2.22	16.5	1.69	1	412	0.3	0.25	1.61	0.14	0.51	124
X101403		10.0	0.15	2.9	9.6	2.42	15.8	1.98	1	426	0.2	0.26	1.84	0.14	0.53	114
X101404		9.5	0.18	2.6	9.3	2.30	25.3	1.75	<1	385	0.2	0.25	1.49	0.14	0.45	117
X101405		9.1	0.15	2.5	8.8	2.40	13.8	1.68	1	364	0.2	0.23	1.49	0.15	0.45	131
X101406		8.9	0.13	2.4	9.1	2.31	15.5	1.78	1	417	0.2	0.28	1.53	0.13	0.43	125
X101407		9.3	0.14	2.1	9.2	2.19	14.6	1.64	1	427	0.2	0.28	1.40	0.13	0.41	115
X101408		9.4	0.16	2.2	9.9	2.37	16.8	2.22	1	427	0.1	0.25	1.28	0.18	0.44	122
X101409		9.9	0.17	2.4	10.5	2.53	15.2	2.20	1	429	0.2	0.30	1.39	0.19	0.46	123
X101410		10.0	0.17	2.5	10.2	2.43	14.4	2.35	<1	419	0.2	0.31	1.23	0.19	0.37	139
X101411		9.1	0.15	2.2	10.3	2.39	9.6	2.30	<1	424	0.1	0.32	0.97	0.16	0.24	128
X101412		10.1	0.16	2.8	10.8	2.49	14.1	2.04	2	441	0.2	0.29	1.28	0.17	0.36	121
X101413		9.8	0.18	2.5	10.3	2.45	13.8	2.40	<1	435	0.2	0.22	1.24	0.12	0.34	124
X101414		9.6	0.16	2.6	9.8	2.41	12.5	2.15	1	429	0.2	0.30	1.50	0.13	0.44	124
X101415		9.9	0.19	2.4	10.0	2.42	8.6	2.23	<1	460	0.2	0.25	1.41	0.13	0.31	133
X101416		9.1	0.14	2.5	10.2	2.36	16.2	1.84	<1	424	0.2	0.25	1.39	0.14	0.36	144
X101417		8.7	0.19	2.3	9.0	2.31	11.2	1.95	<1	435	0.2	0.27	1.39	0.15	0.44	141

***** 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: 12-APR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18070715

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
X101378		12	22.0	2.37	121	0.9	0.04	0.014	0.010	<0.001	0.16	<0.2	<0.01	0.06	<0.5	<0.5
X101379		<1	14.6	1.40	79	41.1	0.30	0.118	0.045	0.013	1.40	11.0	1.26	0.08	2.7	0.6
X101380		14	7.4	0.76	54	0.4	<0.01	0.005	0.006	<0.001	<0.05	<0.2	<0.01	0.02	<0.5	<0.5
X101381		1	7.3	0.67	58	0.4	0.01	0.012	0.005	<0.001	<0.05	0.2	<0.01	0.02	<0.5	<0.5
X101382		1	7.8	0.87	42	0.2	<0.01	0.014	0.006	<0.001	<0.05	<0.2	<0.01	<0.02	<0.5	<0.5
X101383		1	8.7	0.89	52	0.5	<0.01	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	<0.02	<0.5	<0.5
X101384		47	8.0	0.88	47	0.3	0.01	0.011	0.006	<0.001	<0.05	<0.2	<0.01	<0.02	<0.5	<0.5
X101385		<1	8.7	0.95	44	0.3	<0.01	0.006	0.006	<0.001	<0.05	0.2	<0.01	<0.02	<0.5	<0.5
X101386		<1	10.0	1.07	73	0.2	<0.01	0.012	0.007	<0.001	<0.05	<0.2	<0.01	<0.02	<0.5	<0.5
X101387		<1	10.1	1.08	66	0.6	<0.01	0.009	0.008	<0.001	<0.05	<0.2	<0.01	<0.02	<0.5	<0.5
X101388		<1	9.8	1.05	60	0.3	0.01	0.009	0.005	<0.001	<0.05	0.2	<0.01	0.03	<0.5	<0.5
X101389		1	9.8	0.96	64	0.4	0.02	0.007	0.007	<0.001	<0.05	<0.2	<0.01	0.04	<0.5	<0.5
X101390		1	9.3	0.95	62	0.3	0.01	0.008	0.006	<0.001	<0.05	<0.2	<0.01	0.03	<0.5	<0.5
X101391		1	9.3	0.87	51	0.4	0.01	0.009	0.006	<0.001	<0.05	<0.2	<0.01	0.03	<0.5	<0.5
X101392		1	8.8	0.93	57	0.1	0.01	0.006	0.007	<0.001	<0.05	<0.2	<0.01	0.03	<0.5	<0.5
X101393		1	8.9	0.91	55	0.2	0.02	<0.005	0.007	<0.001	<0.05	<0.2	<0.01	0.03	<0.5	<0.5
X101394		1	8.8	0.89	80	0.1	0.01	<0.005	0.007	<0.001	<0.05	<0.2	<0.01	0.02	<0.5	<0.5
X101395		1	9.5	0.88	70	<0.1	0.01	<0.005	0.009	<0.001	<0.05	<0.2	<0.01	0.04	<0.5	<0.5
X101396		1	10.0	0.95	64	0.1	0.01	<0.005	0.006	<0.001	<0.05	0.2	<0.01	0.04	<0.5	<0.5
X101397		1	9.9	1.11	79	0.1	0.02	<0.005	0.006	<0.001	<0.05	<0.2	<0.01	0.04	<0.5	<0.5
X101398		4	13.0	1.02	98	4.0	1.40	0.016	0.076	0.005	0.37	4.9	0.64	0.10	1.8	0.6
X101399		1	9.9	1.19	74	0.4	0.01	<0.005	0.007	<0.001	<0.05	<0.2	<0.01	0.04	<0.5	<0.5
X101400		1	9.8	1.02	89	0.2	0.01	<0.005	0.006	<0.001	<0.05	<0.2	<0.01	0.02	<0.5	<0.5
X101401		1	9.9	0.89	59	0.5	0.01	<0.005	0.005	<0.001	<0.05	<0.2	<0.01	0.05	<0.5	<0.5
X101402		1	9.6	0.90	82	0.3	0.01	<0.005	0.007	0.001	<0.05	<0.2	0.01	0.07	<0.5	<0.5
X101403		1	9.0	0.82	79	0.3	0.01	<0.005	0.006	<0.001	<0.05	<0.2	0.01	0.04	<0.5	<0.5
X101404		1	9.1	0.80	70	0.4	0.02	<0.005	0.006	0.001	<0.05	<0.2	0.01	0.04	<0.5	<0.5
X101405		1	8.9	0.98	48	0.5	0.02	<0.005	0.007	<0.001	<0.05	0.2	<0.01	0.03	<0.5	<0.5
X101406		1	8.8	1.08	65	0.2	0.01	<0.005	0.006	<0.001	<0.05	<0.2	0.01	0.05	<0.5	<0.5
X101407		1	8.8	0.96	59	0.4	0.01	<0.005	0.005	<0.001	<0.05	<0.2	0.01	0.05	<0.5	<0.5
X101408		1	9.7	0.95	62	0.4	0.01	<0.005	0.007	<0.001	<0.05	<0.2	<0.01	0.04	<0.5	<0.5
X101409		1	9.7	1.00	53	0.3	0.01	<0.005	0.006	<0.001	<0.05	0.2	<0.01	0.04	<0.5	<0.5
X101410		1	10.6	1.08	99	<0.1	0.03	<0.005	0.006	0.001	<0.05	0.3	0.06	0.04	<0.5	<0.5
X101411		1	10.4	1.16	53	0.2	0.01	<0.005	0.006	0.001	<0.05	<0.2	<0.01	0.03	<0.5	<0.5
X101412		1	10.3	1.00	75	0.5	0.01	<0.005	0.006	0.001	<0.05	0.2	<0.01	0.05	<0.5	<0.5
X101413		1	9.9	1.13	64	0.2	0.01	<0.005	0.005	<0.001	<0.05	<0.2	<0.01	0.04	<0.5	<0.5
X101414		1	9.4	0.87	68	0.4	0.01	<0.005	0.006	<0.001	<0.05	0.2	<0.01	0.04	<0.5	<0.5
X101415		1	9.4	1.04	57	0.1	0.01	<0.005	0.008	<0.001	<0.05	<0.2	0.01	0.02	<0.5	<0.5
X101416		1	9.3	1.03	49	0.4	0.03	<0.005	0.005	<0.001	<0.05	<0.2	0.01	0.04	<0.5	<0.5
X101417		1	9.1	0.85	67	0.1	0.01	<0.005	0.005	<0.001	<0.05	<0.2	0.01	0.03	<0.5	<0.5

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

Finalized Date: 12-APR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18070715

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
X101378		13	91	10	3	7	7	17	59	0.002	<0.005	0.002	0.028
X101379		146	5460	40	2	2080	5	25	71	0.155	0.700	0.362	11.15
X101380		19	33	10	<1	15	3	10	48	0.002	<0.005	0.017	0.061
X101381		19	33	20	1	13	<2	10	43	<0.001	0.023	0.013	0.067
X101382		20	3	30	<1	14	<2	11	41	<0.001	<0.005	0.008	0.005
X101383		19	11	20	1	15	2	12	46	<0.001	<0.005	0.010	0.022
X101384		18	18	10	1	14	2	11	44	<0.001	<0.005	0.008	0.037
X101385		20	9	10	<1	15	7	12	46	<0.001	0.009	0.030	0.019
X101386		18	1	10	1	15	6	11	45	<0.001	<0.005	0.011	0.009
X101387		19	6	10	1	15	4	12	43	<0.001	<0.005	0.007	0.016
X101388		17	4	10	<1	14	5	10	44	0.001	<0.005	0.008	0.008
X101389		17	7	10	<1	14	4	10	46	<0.001	<0.005	0.008	0.018
X101390		14	7	10	1	12	6	9	43	<0.001	0.013	0.017	0.012
X101391		17	16	10	1	14	7	9	45	0.001	0.021	0.019	0.033
X101392		16	8	10	1	13	2	9	43	<0.001	<0.005	0.010	0.015
X101393		17	7	20	1	14	4	9	42	<0.001	<0.005	0.010	0.019
X101394		15	4	10	1	12	4	9	40	<0.001	<0.005	0.010	0.011
X101395		17	1	10	1	15	6	9	44	<0.001	0.005	0.020	0.006
X101396		17	<1	10	<1	16	4	10	42	<0.001	<0.005	0.010	0.004
X101397		17	11	10	1	17	4	9	42	<0.001	<0.005	0.009	0.030
X101398		111	4520	20	4	4290	26	12	105	0.104	0.304	0.594	4.36
X101399		18	22	10	<1	18	4	10	44	<0.001	<0.005	0.006	0.039
X101400		14	10	10	<1	15	3	9	39	<0.001	<0.005	0.006	0.012
X101401		16	19	10	<1	16	4	9	42	<0.001	<0.005	0.006	0.037
X101402		20	35	10	1	19	5	10	52	<0.001	<0.005	0.008	0.052
X101403		17	20	10	1	16	3	9	47	<0.001	<0.005	0.007	0.033
X101404		19	30	20	<1	17	6	10	45	<0.001	0.014	0.010	0.057
X101405		19	35	30	1	18	6	10	47	<0.001	<0.005	0.008	0.049
X101406		19	33	10	<1	16	5	10	50	<0.001	<0.005	0.007	0.065
X101407		16	16	10	<1	14	6	9	51	<0.001	<0.005	0.008	0.026
X101408		17	18	10	1	15	5	9	49	<0.001	<0.005	0.010	0.036
X101409		16	17	10	1	14	4	9	53	<0.001	<0.005	0.007	0.036
X101410		25	155	10	1	49	6	13	61	0.017	0.057	0.052	0.233
X101411		19	18	10	1	17	8	12	59	<0.001	<0.005	0.007	0.029
X101412		18	28	10	1	15	2	10	48	<0.001	<0.005	0.006	0.057
X101413		17	18	10	<1	14	5	10	47	<0.001	<0.005	0.006	0.042
X101414		17	20	10	<1	15	5	10	45	<0.001	<0.005	0.007	0.039
X101415		16	<1	20	<1	17	3	10	45	<0.001	<0.005	0.010	0.006
X101416		19	22	20	1	15	4	11	47	<0.001	0.016	0.017	0.041
X101417		18	15	10	<1	15	6	11	48	<0.001	0.012	0.013	0.036

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

Finalized Date: 12-APR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18070715

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
X101418		0.04	60.6	16.10	5.90	6.13	2.63	3.25	1.47	<0.01	0.48	0.12	0.14	0.05	0.07	1.08
X101419		2.09	52.9	21.6	7.16	9.82	2.26	3.55	0.79	0.01	0.47	0.10	0.07	0.05	0.03	1.82
X101420		2.09	53.6	21.7	6.72	10.10	2.04	3.62	0.57	<0.01	0.43	0.10	0.07	0.05	0.03	1.12
X101421		2.11	53.9	22.1	7.16	10.25	2.10	3.63	0.52	<0.01	0.45	0.10	0.09	0.05	0.03	1.14
X101422		2.17	53.0	21.3	7.63	10.10	2.39	3.57	0.59	<0.01	0.50	0.11	0.07	0.05	0.03	1.44
X101423		2.12	53.1	20.9	7.67	9.93	2.51	3.37	0.58	0.01	0.46	0.11	0.06	0.05	0.03	1.14
X101424		2.03	53.8	21.4	7.04	9.29	2.56	3.44	0.56	0.01	0.34	0.11	0.06	0.05	0.03	1.01
X101425		2.11	54.8	17.10	9.70	6.77	4.98	2.64	0.54	0.04	0.29	0.14	0.04	0.03	0.02	2.33
X101426		2.09	53.0	20.2	8.43	8.95	3.28	3.17	0.54	0.01	0.35	0.14	0.06	0.05	0.02	1.46
X101427		1.94	53.3	20.6	8.37	9.48	3.08	3.24	0.51	0.01	0.41	0.13	0.06	0.05	0.03	1.18
X101428		2.16	52.1	20.7	7.62	10.25	2.50	3.49	0.64	0.01	0.45	0.10	0.06	0.05	0.02	2.29
X101429		2.17	51.9	22.9	7.31	9.92	2.42	4.08	0.57	0.01	0.44	0.10	0.06	0.05	0.02	1.22
X101430		2.01	50.5	22.8	7.28	10.40	2.22	4.05	0.43	<0.01	0.50	0.10	0.05	0.06	0.02	1.58
X101431		1.97	49.9	22.5	6.75	10.40	2.14	3.93	0.64	<0.01	0.51	0.10	0.05	0.05	0.02	2.25
X101432		2.00	52.8	22.2	6.48	9.73	2.06	3.69	0.80	<0.01	0.47	0.09	0.06	0.05	0.02	2.12
X101433		2.04	53.1	22.4	6.59	10.20	2.12	3.80	0.60	<0.01	0.47	0.09	0.05	0.05	0.02	1.32
X101434		1.98	53.5	21.9	6.43	9.91	1.98	3.59	0.64	<0.01	0.44	0.09	0.05	0.05	0.03	1.00
X101435		2.00	53.9	21.7	6.60	9.81	2.03	3.54	0.62	<0.01	0.47	0.09	0.05	0.05	0.02	1.16
X101436		2.03	52.5	22.5	6.59	9.94	2.12	3.98	0.52	0.01	0.47	0.09	0.06	0.05	0.02	1.06
X101437		1.89	51.8	23.5	6.11	10.30	1.83	4.50	0.52	<0.01	0.46	0.08	0.06	0.06	0.02	1.17
X101438		0.08	41.4	9.10	15.10	15.80	10.90	0.63	0.23	0.11	0.73	0.15	0.12	<0.01	0.03	4.04
X101439		1.72	53.9	21.4	6.20	9.18	1.82	3.65	0.78	<0.01	0.46	0.08	0.05	0.05	0.03	0.82
X101440		1.40	54.1	22.0	6.48	9.66	2.08	3.68	0.75	<0.01	0.44	0.09	0.06	0.05	0.03	1.22
X101441		1.31	56.4	20.2	5.88	8.41	1.92	3.57	2.21	0.01	0.49	0.09	0.10	0.05	0.05	2.02
X101442		1.63	46.9	16.85	14.55	7.31	7.05	1.89	1.42	0.04	0.46	0.16	0.15	0.03	0.06	2.97
X101443		1.19	52.1	15.20	13.10	9.16	5.39	2.69	0.92	0.02	1.28	0.23	0.20	0.02	0.03	0.99
X101444		1.32	63.8	15.40	8.00	5.56	2.21	3.52	0.97	0.01	0.63	0.12	0.15	0.03	0.03	1.47
X101445		3.61	49.4	14.40	15.15	10.10	6.18	2.46	0.46	0.01	1.48	0.24	0.15	0.02	0.02	0.25
X101446		2.27	49.0	14.35	15.25	9.79	6.43	2.45	0.80	0.01	1.46	0.27	0.15	0.02	0.03	1.39
X101447		2.11	48.5	14.25	15.10	9.83	6.80	2.32	0.64	0.01	1.41	0.27	0.15	0.02	0.02	1.00
X101448		2.34	48.4	14.10	15.30	9.86	6.75	2.38	0.55	0.01	1.42	0.23	0.14	0.02	0.02	0.61
X101449		2.63	49.3	14.25	15.25	10.00	6.51	2.41	0.67	0.01	1.49	0.25	0.15	0.02	0.02	0.54
X101450		1.84	64.6	15.05	5.54	4.00	2.42	4.50	1.45	0.01	0.40	0.09	0.12	0.04	0.04	1.48
X101451		1.75	51.5	14.60	13.50	8.54	6.15	2.63	1.05	0.02	1.26	0.25	0.15	0.02	0.03	1.10
X101452		3.32	62.8	16.30	6.52	6.77	2.51	3.30	1.22	0.01	0.60	0.14	0.16	0.03	0.03	1.04
X101453		2.01	65.1	16.20	5.87	6.18	2.01	3.45	1.05	0.01	0.59	0.10	0.14	0.03	0.03	0.99
X101454		1.96	64.9	15.55	6.04	6.51	2.05	3.17	1.32	0.01	0.60	0.12	0.16	0.03	0.03	0.98
X101455		0.07	46.9	12.95	21.1	6.33	6.79	2.23	0.66	0.03	1.32	0.20	0.16	0.03	0.03	1.16

***** 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: 12-APR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18070715

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
X101418		98.02	0.04	0.02	573	28.9	10	0.66	3.67	2.36	0.99	17.8	3.86	<5	3.7	0.78
X101419		100.63	0.11	0.02	246	17.0	50	0.95	1.57	0.83	0.64	23.2	1.66	<5	1.2	0.34
X101420		100.15	0.08	0.03	231	17.8	30	0.73	1.36	0.90	0.73	24.0	1.71	<5	1.2	0.29
X101421		101.52	0.11	0.05	228	17.8	30	0.85	1.59	0.92	0.81	24.0	1.62	<5	1.3	0.37
X101422		100.78	0.14	0.08	232	15.9	30	1.25	1.29	0.86	0.72	22.7	1.47	<5	1.6	0.36
X101423		99.92	0.08	0.05	256	16.0	30	0.74	1.45	0.89	0.71	23.2	1.76	<5	1.1	0.29
X101424		99.70	0.04	0.03	231	15.4	40	1.03	1.40	0.76	0.74	23.4	1.54	<5	1.1	0.27
X101425		99.42	0.04	0.37	193.5	13.3	310	0.97	0.86	0.58	0.76	19.5	1.17	<5	1.5	0.20
X101426		99.66	0.05	0.07	196.0	15.7	80	1.06	1.18	0.78	0.75	21.9	1.51	<5	1.1	0.29
X101427		100.45	0.05	0.06	224	14.8	70	0.92	1.25	0.89	0.69	21.7	1.23	<5	1.1	0.27
X101428		100.28	0.11	0.06	153.5	15.7	40	0.91	1.31	0.98	0.79	22.5	1.48	<5	0.9	0.27
X101429		101.00	0.07	0.01	218	16.7	40	0.84	1.45	0.89	0.88	25.4	1.68	<5	1.3	0.31
X101430		99.99	0.16	0.02	169.5	16.0	30	0.66	1.38	0.89	0.82	24.6	1.75	<5	1.4	0.31
X101431		99.24	0.24	0.03	176.5	17.6	30	0.79	1.62	0.87	0.68	24.0	1.65	<5	1.3	0.32
X101432		100.57	0.12	0.04	179.5	16.4	30	1.25	1.49	1.03	0.79	24.0	1.58	<5	1.3	0.26
X101433		100.81	0.11	0.02	199.0	18.3	30	0.81	1.56	0.94	0.69	24.2	1.63	<5	1.4	0.33
X101434		99.61	0.07	0.02	225	18.0	30	1.06	1.79	0.92	0.79	23.6	1.64	<5	1.3	0.32
X101435		100.04	0.08	0.04	210	18.6	30	1.11	1.88	0.99	0.71	23.6	1.65	<5	1.6	0.28
X101436		99.91	0.10	0.01	201	20.4	50	0.63	1.68	0.88	0.76	24.5	1.71	<5	1.5	0.31
X101437		100.41	0.11	0.01	169.5	23.1	20	0.44	1.79	1.12	0.78	24.2	1.85	<5	2.1	0.36
X101438		98.34	0.24	2.67	292	20.4	790	0.41	2.64	1.45	0.73	11.4	2.70	<5	2.1	0.49
X101439		98.42	0.06	0.02	282	21.1	30	1.25	1.46	0.98	0.73	21.9	1.66	<5	1.8	0.32
X101440		100.64	0.08	0.02	288	19.5	30	0.84	1.54	1.01	0.67	23.0	1.51	<5	1.7	0.30
X101441		101.40	0.07	0.01	457	28.2	60	1.28	2.39	1.47	0.71	22.3	2.31	<5	3.0	0.46
X101442		99.84	0.06	0.03	505	21.8	310	1.80	1.56	0.90	0.86	19.6	1.85	<5	1.4	0.30
X101443		101.33	0.02	0.07	229	30.5	110	1.72	4.75	2.61	1.40	22.3	4.55	<5	3.1	0.94
X101444		101.90	0.02	0.69	272	27.9	80	0.57	2.45	1.55	1.20	19.6	2.89	<5	2.5	0.56
X101445		100.32	0.01	0.03	153.5	21.0	100	0.96	4.70	3.02	1.42	21.7	5.06	<5	2.8	1.05
X101446		101.40	0.02	0.08	243	20.1	110	0.57	5.23	3.02	1.09	23.0	4.46	<5	2.7	1.06
X101447		100.32	0.02	0.09	183.0	18.9	100	0.85	4.87	2.86	1.26	21.4	4.16	<5	2.4	0.96
X101448		99.79	0.02	0.06	169.5	19.5	100	1.25	4.82	2.59	1.18	21.0	4.35	<5	2.9	0.98
X101449		100.87	0.01	0.04	191.0	20.0	100	1.43	5.49	3.04	1.27	21.8	4.78	<5	3.1	1.02
X101450		99.74	0.03	0.01	380	57.3	90	1.44	2.09	0.93	0.89	19.4	3.03	<5	3.5	0.35
X101451		100.80	0.02	0.03	252	21.1	110	2.27	4.37	2.58	1.21	22.1	4.49	<5	3.1	0.84
X101452		101.43	0.03	0.02	300	33.3	80	0.79	3.39	1.64	1.06	21.4	3.47	<5	3.0	0.58
X101453		101.75	0.03	0.02	242	29.7	70	1.71	2.57	1.39	0.85	20.5	3.09	<5	3.2	0.56
X101454		101.47	0.04	0.02	255	26.3	90	1.63	2.66	1.45	0.95	19.7	2.64	<5	2.9	0.50
X101455		99.89	0.08	1.73	216	25.9	240	1.03	2.70	1.50	1.05	16.5	2.61	<5	2.6	0.48

***** 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: 12-APR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18070715

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
X101418		12.6	0.41	3.2	16.8	3.95	26.5	3.27	2	461	0.2	0.62	2.95	0.34	1.23	147
X101419		8.1	0.14	2.1	8.1	1.97	19.0	1.80	<1	421	0.2	0.26	1.27	0.15	0.35	149
X101420		8.6	0.14	2.1	8.6	2.11	12.8	1.65	1	435	0.2	0.24	1.51	0.15	0.37	134
X101421		8.9	0.14	2.2	9.3	2.22	12.3	1.93	<1	434	0.2	0.24	1.26	0.15	0.37	144
X101422		7.8	0.14	2.1	8.4	1.86	13.7	1.70	1	416	0.1	0.26	1.21	0.11	0.57	160
X101423		7.9	0.14	1.7	8.3	1.93	12.5	1.65	1	423	0.1	0.22	1.38	0.09	0.49	148
X101424		8.4	0.13	1.6	7.4	1.90	13.5	1.48	1	441	0.1	0.21	1.34	0.13	0.43	88
X101425		7.2	0.12	1.5	6.0	1.55	15.4	1.37	1	294	0.1	0.17	1.68	0.08	0.40	156
X101426		8.0	0.15	1.7	7.2	2.02	13.4	1.78	<1	396	0.1	0.22	1.47	0.13	0.39	94
X101427		7.4	0.14	1.5	7.0	1.87	11.6	1.45	<1	412	0.1	0.21	1.35	0.11	0.35	129
X101428		8.0	0.11	1.7	7.9	2.06	21.7	1.52	1	442	0.1	0.24	1.36	0.13	0.35	142
X101429		8.8	0.13	1.9	8.2	2.17	15.1	1.64	<1	478	0.1	0.20	1.32	0.16	0.41	132
X101430		8.0	0.15	2.1	7.5	2.04	9.6	1.46	<1	483	0.1	0.25	1.19	0.16	0.35	162
X101431		8.8	0.11	2.1	8.8	2.11	16.8	1.87	1	451	0.2	0.26	1.43	0.15	0.31	160
X101432		8.6	0.15	2.1	8.3	2.31	25.4	1.75	<1	439	0.2	0.24	1.93	0.11	0.46	139
X101433		9.3	0.15	2.3	9.4	2.28	15.3	2.03	1	460	0.2	0.28	1.75	0.13	0.45	143
X101434		9.2	0.13	2.2	9.4	2.29	17.7	1.78	1	449	0.2	0.25	1.86	0.13	0.58	141
X101435		9.5	0.13	2.2	9.1	2.34	16.4	1.91	1	443	0.2	0.27	2.10	0.15	0.59	145
X101436		10.1	0.12	2.7	9.5	2.49	11.7	1.97	1	464	0.2	0.26	2.40	0.16	0.67	125
X101437		11.1	0.16	2.8	10.6	2.88	10.3	2.12	1	478	0.3	0.31	4.10	0.18	0.93	113
X101438		10.1	0.23	6.4	11.4	2.64	5.7	2.42	2	67.4	0.4	0.44	1.99	0.21	0.95	175
X101439		11.1	0.14	3.1	10.2	2.56	24.2	2.12	1	425	0.3	0.23	2.21	0.13	0.66	137
X101440		9.9	0.15	2.5	9.4	2.33	18.8	1.96	1	443	0.2	0.23	2.03	0.13	0.59	139
X101441		14.2	0.17	5.6	13.2	3.39	60.7	3.23	1	399	0.4	0.39	3.00	0.20	0.83	108
X101442		10.8	0.13	1.9	12.0	2.87	46.3	2.36	<1	230	0.1	0.26	1.40	0.13	0.35	200
X101443		14.3	0.40	13.7	16.5	4.17	31.1	4.08	1	205	0.4	0.76	2.53	0.38	0.54	300
X101444		14.4	0.21	6.8	13.8	3.55	30.4	2.92	1	290	0.4	0.42	1.33	0.22	0.28	105
X101445		9.9	0.39	5.7	12.7	2.97	14.7	3.71	1	165.0	0.3	0.82	1.27	0.45	0.37	368
X101446		9.1	0.40	5.5	12.8	3.09	26.8	3.95	2	216	0.3	0.74	1.28	0.42	0.35	363
X101447		8.6	0.40	5.1	12.3	2.81	21.4	3.63	1	188.0	0.3	0.74	1.27	0.44	0.34	348
X101448		8.6	0.36	5.4	12.7	2.74	18.0	4.25	1	168.0	0.3	0.74	1.21	0.37	0.35	354
X101449		9.2	0.42	5.5	13.8	2.96	22.5	3.42	1	167.5	0.3	0.80	1.35	0.43	0.37	360
X101450		30.3	0.16	7.4	22.8	6.75	47.0	3.89	1	377	0.7	0.34	10.50	0.15	2.46	64
X101451		9.9	0.35	5.6	13.1	2.88	35.1	3.61	1	198.0	0.4	0.70	1.58	0.38	0.56	303
X101452		16.4	0.29	6.7	15.7	4.41	36.9	3.58	1	299	0.5	0.52	2.50	0.27	0.71	116
X101453		15.3	0.22	7.4	15.0	3.77	36.1	3.00	1	252	0.7	0.41	3.58	0.25	1.32	107
X101454		13.5	0.22	6.5	13.2	3.41	44.4	2.49	1	272	0.5	0.39	3.86	0.20	1.54	106
X101455		12.7	0.18	7.0	14.6	3.48	17.1	2.92	4	260	0.5	0.44	1.58	0.19	0.69	122

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

Finalized Date: 12-APR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18070715

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
X101418		6	22.1	2.50	137	0.8	0.05	<0.005	0.010	<0.001	0.13	0.3	<0.01	0.05	<0.5	<0.5
X101419		1	8.6	0.81	58	0.1	0.02	<0.005	0.006	<0.001	<0.05	<0.2	0.01	0.02	<0.5	<0.5
X101420		1	8.5	0.95	46	0.2	0.01	<0.005	0.005	<0.001	<0.05	0.2	<0.01	0.03	<0.5	<0.5
X101421		1	8.9	0.93	48	0.5	0.02	<0.005	0.007	0.001	<0.05	<0.2	0.02	0.04	<0.5	<0.5
X101422		1	8.2	0.83	61	0.5	0.02	<0.005	0.007	<0.001	<0.05	<0.2	0.01	0.03	<0.5	<0.5
X101423		1	8.0	0.66	43	0.4	0.01	<0.005	0.006	<0.001	<0.05	0.2	<0.01	0.03	<0.5	<0.5
X101424		1	7.4	0.82	41	0.7	0.01	<0.005	<0.005	0.001	<0.05	0.3	<0.01	0.05	<0.5	<0.5
X101425		2	5.8	0.95	54	4.5	0.03	<0.005	0.008	0.001	<0.05	0.4	0.07	0.03	<0.5	<0.5
X101426		<1	7.8	1.09	45	0.7	0.02	<0.005	0.007	0.001	<0.05	0.2	0.01	0.03	<0.5	<0.5
X101427		1	7.4	0.82	39	0.8	0.01	<0.005	0.005	<0.001	<0.05	<0.2	0.01	0.03	<0.5	<0.5
X101428		1	8.2	0.86	31	0.7	0.02	<0.005	0.007	<0.001	<0.05	0.2	<0.01	0.03	<0.5	<0.5
X101429		1	8.2	0.95	50	0.2	0.01	<0.005	0.005	<0.001	<0.05	<0.2	0.01	0.02	<0.5	<0.5
X101430		1	8.3	0.90	51	0.3	0.01	<0.005	0.005	<0.001	<0.05	<0.2	0.01	0.02	<0.5	<0.5
X101431		1	8.7	1.02	49	0.3	0.01	<0.005	0.006	<0.001	<0.05	<0.2	<0.01	0.02	<0.5	<0.5
X101432		1	8.3	0.91	46	0.7	0.02	<0.005	0.005	<0.001	<0.05	<0.2	<0.01	0.03	<0.5	<0.5
X101433		1	8.7	0.82	48	0.3	0.01	<0.005	0.005	<0.001	<0.05	<0.2	<0.01	0.03	<0.5	<0.5
X101434		1	8.8	0.87	51	0.6	0.01	<0.005	0.005	<0.001	<0.05	<0.2	<0.01	0.04	<0.5	<0.5
X101435		13	8.8	0.91	64	0.6	0.01	<0.005	0.005	0.001	<0.05	<0.2	<0.01	0.03	<0.5	<0.5
X101436		1	9.1	0.95	56	0.3	0.01	<0.005	0.006	0.001	<0.05	<0.2	<0.01	0.03	<0.5	<0.5
X101437		1	9.7	1.07	72	0.2	0.01	<0.005	0.007	<0.001	<0.05	<0.2	<0.01	0.02	<0.5	<0.5
X101438		1	14.3	1.38	83	45.6	0.31	0.124	0.050	0.016	1.47	11.5	1.25	0.07	2.8	0.9
X101439		1	8.7	0.96	65	0.5	0.01	<0.005	0.007	<0.001	<0.05	<0.2	<0.01	0.06	<0.5	<0.5
X101440		1	8.9	1.00	69	<0.1	0.01	<0.005	0.007	<0.001	<0.05	<0.2	<0.01	0.02	<0.5	<0.5
X101441		1	12.7	1.41	108	0.5	0.02	<0.005	0.007	<0.001	0.10	<0.2	<0.01	0.02	<0.5	<0.5
X101442		1	8.2	0.99	48	0.4	0.01	<0.005	0.007	0.001	0.06	<0.2	<0.01	0.03	<0.5	<0.5
X101443		1	25.4	2.63	123	1.2	0.09	<0.005	0.010	0.002	0.08	0.2	0.01	0.12	<0.5	<0.5
X101444		1	14.0	1.23	117	0.6	0.15	<0.005	0.011	0.001	0.11	0.2	0.02	0.06	<0.5	<0.5
X101445		<1	27.7	2.82	102	1.5	0.10	<0.005	0.006	0.001	<0.05	0.3	0.01	0.06	<0.5	<0.5
X101446		1	27.0	2.64	101	2.5	0.10	<0.005	0.008	0.001	0.09	0.3	0.01	0.03	<0.5	<0.5
X101447		1	25.3	2.69	96	6.5	0.14	<0.005	0.009	0.001	0.10	0.2	0.01	0.04	<0.5	<0.5
X101448		1	26.2	2.83	98	3.3	0.09	<0.005	0.009	0.001	<0.05	0.2	<0.01	0.06	<0.5	<0.5
X101449		1	27.9	2.98	104	2.5	0.07	<0.005	0.007	0.001	0.05	0.3	0.01	0.09	<0.5	<0.5
X101450		1	10.3	1.00	130	0.4	0.02	<0.005	0.007	<0.001	<0.05	<0.2	<0.01	0.10	<0.5	<0.5
X101451		1	23.4	2.58	112	0.8	0.07	<0.005	0.010	<0.001	<0.05	<0.2	<0.01	0.12	<0.5	<0.5
X101452		1	16.9	1.85	117	0.6	0.03	<0.005	0.010	0.001	<0.05	<0.2	<0.01	0.04	<0.5	0.6
X101453		1	14.3	1.63	126	0.1	0.02	<0.005	0.009	<0.001	<0.05	<0.2	<0.01	0.08	<0.5	<0.5
X101454		2	13.7	1.58	114	0.6	0.04	<0.005	0.009	0.001	<0.05	<0.2	<0.01	0.10	<0.5	<0.5
X101455		4	12.8	1.31	109	4.1	0.98	0.011	0.063	0.005	0.33	5.0	0.72	0.10	1.7	1.1

***** 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: 12-APR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18070715

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
X101418		13	89	10	3	6	4	16	60	<0.001	<0.005	0.001	0.020
X101419		22	13	20	1	22	<2	12	50	<0.001	0.006	0.014	0.016
X101420		19	18	10	<1	15	<2	11	49	<0.001	0.005	0.012	0.030
X101421		20	23	10	1	17	<2	12	47	0.021	0.053	0.061	0.055
X101422		25	34	20	<1	21	<2	13	51	<0.001	0.015	0.022	0.088
X101423		25	25	10	<1	22	<2	12	58	<0.001	0.051	0.043	0.046
X101424		22	13	10	<1	16	<2	10	60	<0.001	0.015	0.013	0.027
X101425		43	164	20	1	92	2	19	91	<0.001	0.006	0.010	0.382
X101426		31	43	20	<1	33	<2	13	70	<0.001	0.007	0.019	0.108
X101427		28	57	10	1	47	<2	12	67	0.002	0.016	0.034	0.093
X101428		24	20	30	1	32	<2	14	45	<0.001	0.006	0.015	0.047
X101429		21	4	20	<1	22	<2	10	45	<0.001	0.012	0.008	0.005
X101430		22	2	20	<1	19	<2	12	45	<0.001	<0.005	0.005	0.009
X101431		20	6	20	<1	20	<2	12	44	<0.001	<0.005	0.006	0.014
X101432		21	17	30	1	19	2	11	45	<0.001	<0.005	0.005	0.030
X101433		20	11	10	<1	20	<2	11	48	<0.001	<0.005	0.006	0.019
X101434		20	21	10	1	19	2	11	48	<0.001	<0.005	0.005	0.033
X101435		22	35	20	1	21	2	12	50	<0.001	<0.005	0.007	0.047
X101436		21	9	10	<1	18	<2	10	43	<0.001	<0.005	0.008	0.017
X101437		18	<1	10	<1	16	2	10	32	<0.001	<0.005	0.008	<0.003
X101438		144	5320	40	2	2020	4	24	75	0.134	0.705	0.363	11.00
X101439		18	17	10	1	15	2	10	46	<0.001	<0.005	0.008	0.027
X101440		20	17	10	<1	20	<2	10	45	<0.001	<0.005	0.007	0.026
X101441		15	4	20	1	25	2	11	38	0.013	<0.005	0.006	0.003
X101442		36	13	50	<1	94	<2	21	97	<0.001	<0.005	0.003	0.017
X101443		41	139	20	1	88	<2	28	144	0.001	<0.005	0.016	0.155
X101444		35	255	30	2	55	5	15	101	<0.001	<0.005	0.001	0.200
X101445		49	202	10	1	94	2	36	95	0.003	<0.005	0.022	0.167
X101446		49	231	30	<1	99	<2	35	85	0.003	<0.005	0.021	0.183
X101447		53	235	20	<1	122	<2	34	123	0.003	<0.005	0.020	0.204
X101448		55	215	20	<1	126	<2	34	137	0.002	<0.005	0.021	0.189
X101449		50	219	20	<1	104	<2	35	94	0.001	<0.005	0.022	0.166
X101450		12	15	40	<1	36	5	8	41	<0.001	<0.005	<0.001	0.006
X101451		47	162	30	1	114	<2	31	85	0.001	<0.005	0.016	0.144
X101452		19	4	20	2	41	2	15	61	<0.001	<0.005	<0.001	0.009
X101453		14	1	30	2	29	2	12	46	<0.001	<0.005	<0.001	0.005
X101454		15	13	30	<1	33	4	14	76	<0.001	<0.005	0.001	0.015
X101455		112	4370	20	5	4140	26	12	103	0.066	0.309	0.583	4.29

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CERTIFICATE OF ANALYSIS TB18070715

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		