ALS Canada Ltd.

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www.alsglobal.com/geochemistry

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

Finalized Date: 8-FEB-2018
Account: NAPEHZEU

CERTIFICATE TB18014784

Project: Gfields

P.O. No.: 178845

This report is for 78 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 21-JAN-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 TB18014784

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
W443625		1.03	17.90	0.09	0.11	27.0	20.9	0.04	0.02	<0.01	<0.01	0.05	0.03	0.02	0.05	32.1
W443626		0.04	42.4	8.97	15.20	16.05	10.40	0.60	0.21	0.10	0.67	0.14	0.11	0.01	0.03	3.54
W443627		3.31	8.86	0.36	35.4	2.28	1.36	0.02	0.02	<0.01	0.02	0.03	<0.01	<0.01	<0.01	28.9
W443628		3.28	9.71	1.14	33.4	2.07	1.29	0.05	0.08	<0.01	0.05	0.06	0.01	<0.01	<0.01	28.7
W443629		2.40	43.1	9.82	26.1	2.61	2.70	0.93	1.21	0.01	0.35	0.10	0.03	<0.01	0.02	13.00
W443630		2.01	72.1	14.70	2.45	3.01	2.04	2.98	1.72	<0.01	0.24	0.05	0.07	0.01	0.03	1.74
W443631		2.00	62.6	15.30	6.37	4.79	4.70	1.95	1.40	0.02	0.54	0.17	0.06	0.01	0.02	2.77
W443632		2.37	52.3	15.95	10.20	11.35	6.15	1.80	0.65	0.04	0.91	0.28	0.08	0.01	0.01	1.26
W443633		2.12	51.6	16.10	10.90	9.64	8.00	2.06	0.40	0.04	0.92	0.29	0.08	0.01	0.01	1.68
W443634		2.21	48.4	15.50	10.35	8.83	9.21	0.98	0.64	0.04	0.90	0.25	0.08	0.01	0.01	3.14
W443635		2.19	32.8	9.24	29.7	7.33	4.94	0.77	0.34	0.02	0.52	0.16	0.04	0.01	0.01	13.10
W443636		2.50	43.9	7.59	6.31	15.10	7.58	0.60	1.19	<0.01	0.13	0.22	0.04	0.01	0.02	8.39
W443637		2.12	71.4	13.55	3.25	2.98	1.96	0.80	2.74	<0.01	0.25	0.11	0.08	<0.01	0.05	2.03
W443638		2.15	73.7	13.35	3.09	3.01	1.53	1.22	2.24	<0.01	0.24	0.12	0.07	<0.01	0.04	1.67
W443639		1.47	74.4	14.15	2.85	2.72	0.97	1.54	2.94	<0.01	0.26	0.10	0.08	0.01	0.06	1.81
W443640		1.64	75.1	13.25	2.86	3.18	1.16	1.62	2.38	<0.01	0.24	0.11	0.07	<0.01	0.04	1.70
W443641		1.59	49.8	14.35	13.35	8.75	9.30	1.42	0.54	0.04	0.74	0.22	0.06	0.01	0.01	2.19
W443642		1.78	49.0	11.20	11.25	12.45	9.70	0.71	0.84	0.02	0.67	0.25	0.05	<0.01	0.01	2.17
W443643		2.39	49.3	14.35	12.90	11.10	8.03	0.85	1.42	0.04	0.70	0.21	0.05	0.01	0.02	2.20
W443644		2.20	49.2	14.55	13.30	9.36	9.16	1.28	1.15	0.04	0.78	0.19	0.07	0.01	0.02	2.02
W443645		0.04	48.3	12.85	21.1	6.45	6.80	2.20	0.65	0.04	1.24	0.20	0.16	0.03	0.02	1.13
W443646		2.28	48.8	13.80	12.60	9.98	9.12	1.69	0.69	0.04	0.72	0.21	0.06	0.01	0.01	1.62
W443647		2.41	50.1	14.35	13.40	11.15	7.90	1.97	0.39	0.04	0.72	0.22	0.05	0.01	0.01	1.09
W443648		3.08	47.9	13.90	13.20	10.15	7.83	1.74	0.36	0.03	0.73	0.22	0.05	0.01	0.01	2.63
W443649		1.42	78.2	11.05	2.35	2.65	0.93	3.45	0.71	0.01	0.27	0.06	0.06	0.02	0.02	1.28
W443650		1.82	78.9	10.90	2.90	1.84	1.01	2.98	1.23	<0.01	0.23	0.08	0.07	0.01	0.03	1.28
W443651		2.24	78.7	11.10	2.12	1.58	0.65	3.38	1.19	<0.01	0.20	0.06	0.06	0.01	0.03	0.79
W443652		1.99	77.7	10.70	2.62	2.84	0.98	2.60	1.47	<0.01	0.24	0.05	0.06	0.01	0.03	1.60
W443653		2.17	81.3	10.80	1.67	1.55	0.74	1.69	2.22	<0.01	0.20	0.04	0.08	0.01	0.04	1.31
W443654		1.85	78.0	11.65	2.24	1.73	0.72	2.40	1.92	<0.01	0.21	0.06	0.06	0.01	0.04	1.31
W443655		2.06	78.8	10.95	1.81	1.59	0.71	1.78	1.94	<0.01	0.19	0.04	0.05	0.01	0.04	1.54
W443656		1.44	79.1	11.75	1.58	1.62	0.68	1.67	2.26	<0.01	0.21	0.04	0.06	0.01	0.04	1.59
W443657		1.47	78.8	10.60	2.39	3.31	1.15	1.83	1.51	<0.01	0.21	0.06	0.07	0.01	0.04	1.92
W443658		1.46	48.8	15.30	14.30	9.48	6.27	2.13	0.37	0.03	0.96	0.23	0.10	0.03	0.01	1.53
W443659		2.28	49.2	14.70	14.50	9.59	7.08	2.25	0.24	0.03	1.00	0.23	0.08	0.02	0.01	1.05
W443660		2.48	48.2	14.35	14.45	9.15	7.03	2.24	0.24	0.03	0.98	0.22	0.10	0.02	0.01	0.99
W443661		3.05	48.5	14.95	14.30	9.59	7.07	1.74	0.31	0.03	0.99	0.21	0.10	0.01	0.01	1.37
W443662		1.62	49.2	14.60	14.90	8.87	9.09	0.80	0.62	0.03	0.95	0.25	0.09	0.01	0.03	1.69
W443663		2.36	48.9	14.50	14.90	8.43	8.88	0.55	0.70	0.03	1.00	0.23	0.08	0.02	0.02	1.64
W443664		2.24	47.4	14.60	15.05	7.52	9.92	0.56	0.75	0.03	1.00	0.26	0.09	0.02	0.02	2.37

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Finalized Date: 8-FEB-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18014784

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
W443625		98.31	9.16	0.02	441	1.7	<10	0.42	0.11	0.07	<0.03	<0.1	0.11	<5	<0.2	0.02
W443626		98.43	0.25	2.60	289	21.8	770	0.46	2.64	1.42	0.79	10.8	2.76	<5	2.0	0.53
W443627		77.25	0.15	44.0	3.4	0.8	10	0.08	0.10	0.14	0.06	0.8	0.12	<5	<0.2	0.03
W443628		76.56	0.10	42.3	16.1	2.6	10	0.14	0.35	0.29	0.11	2.1	0.22	<5	0.3	0.07
W443629		99.98	0.05	19.05	184.5	11.4	110	2.84	1.36	0.79	0.44	11.8	1.37	<5	1.5	0.29
W443630		101.14	0.17	0.09	279	22.0	10	2.01	0.84	0.34	0.48	19.5	1.18	<5	3.1	0.14
W443631		100.70	0.21	0.33	201	15.7	140	3.18	2.16	1.27	0.71	19.0	1.90	<5	2.7	0.43
W443632		100.99	0.10	0.48	102.5	8.8	310	1.00	3.34	2.13	0.93	18.4	2.89	<5	1.7	0.78
W443633		101.73	0.05	0.29	77.2	8.8	310	1.47	3.62	2.38	0.81	17.8	2.96	<5	1.5	0.76
W443634		98.34	0.44	0.38	85.8	8.7	290	2.09	3.35	2.26	0.82	17.0	2.97	<5	1.6	0.76
W443635		98.98	0.22	19.55	51.1	5.6	170	1.16	2.21	1.33	0.50	9.8	1.49	<5	0.9	0.45
W443636		91.08	4.20	0.90	208	23.3	10	2.22	0.50	0.27	0.38	10.4	0.84	<5	1.9	0.10
W443637		99.20	0.09	0.57	477	48.7	10	2.51	0.73	0.34	0.58	18.8	1.22	<5	3.5	0.14
W443638		100.28	0.09	0.21	405	57.8	10	2.29	0.83	0.43	0.67	18.5	1.47	<5	3.3	0.14
W443639		101.89	0.08	0.20	523	53.7	10	1.79	0.87	0.35	0.64	19.5	1.26	<5	3.5	0.15
W443640		101.71	0.13	0.15	406	53.2	10	1.81	0.75	0.36	0.64	18.1	1.35	<5	3.2	0.14
W443641		100.78	0.06	0.12	97.2	6.3	250	1.96	2.71	1.93	0.69	15.3	2.38	<5	1.2	0.61
W443642		98.32	0.29	0.25	131.0	9.8	180	3.17	2.68	1.80	0.70	14.4	2.54	<5	1.4	0.58
W443643		101.18	0.06	0.15	225	5.5	290	2.88	2.70	1.88	0.64	15.9	2.22	<5	1.2	0.59
W443644		101.13	0.06	0.12	175.0	7.6	270	3.79	3.24	2.06	0.70	16.6	2.40	<5	1.4	0.67
W443645		101.17	0.08	1.52	217	29.0	260	1.06	2.60	1.52	1.19	16.4	2.97	<5	2.7	0.52
W443646		99.35	0.10	0.15	127.5	8.2	300	2.83	2.89	1.87	0.77	16.3	2.32	<5	1.3	0.64
W443647		101.40	0.07	0.19	86.1	6.1	280	0.54	2.89	2.05	0.72	17.1	2.64	<5	1.2	0.68
W443648		98.76	0.44	0.21	66.2	6.3	260	2.08	2.97	2.02	0.67	15.2	2.43	<5	1.2	0.66
W443649		101.06	0.23	0.11	218	40.0	40	1.63	1.04	0.56	0.55	14.3	1.32	<5	2.6	0.21
W443650		101.46	0.16	0.17	291	42.4	30	1.71	1.01	0.59	0.52	15.2	1.41	<5	2.8	0.20
W443651		99.87	0.10	0.15	242	43.9	10	0.90	0.74	0.37	0.55	15.3	1.08	<5	2.7	0.13
W443652		100.90	0.32	0.46	320	40.8	30	1.81	0.70	0.31	0.51	15.3	1.20	<5	2.6	0.12
W443653		101.65	0.11	0.23	424	47.1	30	1.45	0.61	0.28	0.61	16.4	1.15	<5	3.0	0.11
W443654		100.35	0.12	0.31	346	46.9	10	1.45	0.74	0.31	0.52	15.4	1.29	<5	3.0	0.12
W443655		99.45	0.13	0.18	338	41.2	10	1.44	0.61	0.32	0.53	15.1	1.11	<5	2.8	0.11
W443656		100.61	0.12	0.07	409	52.3	10	1.53	0.84	0.35	0.57	17.2	1.30	<5	3.2	0.13
W443657		101.90	0.24	0.03	353	48.1	20	1.82	0.92	0.41	0.71	14.3	1.33	<5	2.5	0.16
W443658		99.54	0.11	0.23	121.5	13.7	200	1.10	3.59	2.41	0.93	17.2	3.19	<5	1.9	0.79
W443659		99.98	0.08	0.13	75.5	11.8	210	0.45	3.83	2.45	1.00	17.7	3.44	<5	1.8	0.82
W443660		98.01	0.10	0.12	68.4	11.3	200	0.33	3.79	2.40	0.86	16.8	3.19	<5	1.7	0.83
W443661		99.18	0.16	0.12	116.5	12.5	190	0.73	3.90	2.41	0.97	17.8	3.38	<5	1.9	0.84
W443662		101.13	0.11	0.15	216	12.4	190	1.90	3.80	2.51	0.96	16.6	3.22	<5	1.7	0.83
W443663		99.88	0.04	0.13	198.0	11.4	200	1.41	3.65	2.32	0.93	16.9	3.38	<5	1.7	0.79
W443664		99.59	0.03	0.19	189.0	12.2	200	2.21	3.82	2.52	0.87	17.5	3.32	<5	1.7	0.85

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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
W443625		0.9	0.01	<0.2	0.7	0.17	1.1	0.16	<1	182.5	<0.1	0.01	0.17	0.01	0.28	<5
W443626		10.5	0.24	6.3	11.3	2.78	5.2	2.81	2	70.3	0.4	0.45	2.01	0.24	0.96	184
W443627		0.4	0.01	0.2	0.5	0.12	0.6	0.11	<1	3.2	<0.1	0.03	0.07	0.02	<0.05	6
W443628		1.2	0.04	0.5	1.3	0.34	1.8	0.34	<1	8.2	<0.1	0.05	0.25	0.04	0.09	16
W443629		5.6	0.12	1.7	5.7	1.40	30.9	1.34	<1	44.9	0.1	0.23	0.89	0.15	0.27	112
W443630		11.9	0.06	2.6	8.8	2.47	41.1	1.53	2	111.0	0.3	0.16	2.17	0.06	0.77	32
W443631		7.8	0.20	2.6	7.8	2.01	35.7	2.00	<1	102.0	0.2	0.33	1.35	0.19	0.42	179
W443632		3.3	0.33	2.5	7.0	1.40	16.3	2.19	<1	123.0	0.2	0.49	0.24	0.34	0.07	374
W443633		3.3	0.35	2.4	7.0	1.39	9.7	2.17	1	108.5	0.1	0.53	0.24	0.34	0.08	374
W443634		3.2	0.36	2.4	6.9	1.40	17.3	2.25	<1	84.7	0.1	0.54	0.23	0.34	0.07	355
W443635		2.3	0.21	1.5	4.4	0.87	9.1	1.35	<1	64.0	0.1	0.32	0.17	0.21	0.06	194
W443636		12.6	0.03	2.0	8.0	2.46	27.7	1.04	<1	54.2	0.2	0.10	2.51	0.04	0.60	19
W443637		26.9	0.05	4.1	16.0	5.03	57.0	2.11	1	56.3	0.4	0.15	5.45	0.05	1.23	29
W443638		31.6	0.06	4.2	19.0	6.04	51.5	2.63	<1	78.3	0.4	0.17	5.51	0.06	1.22	28
W443639		29.4	0.05	4.1	18.1	5.59	55.9	2.16	<1	101.5	0.4	0.18	5.75	0.06	1.19	28
W443640		29.2	0.06	3.9	17.3	5.48	45.9	2.37	<1	81.0	0.3	0.16	5.40	0.05	1.22	27
W443641		2.3	0.31	1.6	5.2	1.00	12.4	1.82	1	86.8	0.1	0.41	0.20	0.30	0.05	308
W443642		4.2	0.28	2.1	6.4	1.39	20.7	1.88	<1	77.5	0.1	0.40	0.50	0.26	0.13	250
W443643		1.9	0.28	1.5	4.5	0.89	34.9	1.55	<1	119.5	0.1	0.39	0.14	0.29	<0.05	323
W443644		2.9	0.33	2.1	6.1	1.19	26.2	1.87	<1	103.5	0.1	0.48	0.25	0.32	0.06	323
W443645		13.3	0.21	7.1	14.9	3.73	17.4	3.07	4	283	0.5	0.43	1.78	0.22	0.50	136
W443646		3.2	0.31	2.0	6.1	1.25	16.1	1.92	<1	156.0	0.1	0.42	0.28	0.30	0.07	315
W443647		2.2	0.33	1.7	5.3	1.01	8.5	1.73	<1	156.5	0.1	0.46	0.16	0.32	<0.05	344
W443648		2.4	0.30	1.6	5.2	0.99	8.9	1.76	1	176.5	0.1	0.44	0.20	0.31	0.08	314
W443649		21.9	0.09	3.0	13.5	4.09	16.7	2.08	<1	221	0.2	0.19	3.94	0.08	0.82	54
W443650		22.5	0.09	3.0	14.8	4.48	24.5	2.23	<1	122.5	0.2	0.19	4.04	0.08	0.94	42
W443651		24.0	0.06	3.3	14.6	4.60	23.5	1.98	<1	140.5	0.3	0.14	4.65	0.06	0.94	23
W443652		22.5	0.05	3.3	12.9	4.17	33.9	1.80	1	156.0	0.3	0.14	4.07	0.06	1.01	48
W443653		25.9	0.05	3.5	15.2	4.82	46.8	2.02	<1	117.0	0.3	0.13	4.90	0.04	0.73	24
W443654		25.6	0.05	3.4	15.3	4.77	38.1	1.98	<1	110.0	0.3	0.14	4.70	0.04	0.80	23
W443655		22.4	0.05	3.3	14.0	4.36	36.7	1.89	1	114.5	0.3	0.14	4.37	0.04	0.91	23
W443656		28.6	0.05	3.7	17.7	5.42	45.8	2.40	1	146.5	0.3	0.17	5.04	0.06	1.16	26
W443657		26.8	0.06	3.4	16.4	5.02	32.7	2.18	<1	152.0	0.3	0.19	4.66	0.06	0.77	26
W443658		5.7	0.39	3.2	8.9	1.93	7.9	2.61	<1	236	0.2	0.55	0.72	0.37	0.13	323
W443659		4.6	0.40	3.3	8.6	1.76	5.1	2.46	<1	175.0	0.2	0.61	0.51	0.37	0.24	350
W443660		4.4	0.37	3.1	8.4	1.74	5.2	2.49	<1	186.0	0.2	0.57	0.45	0.37	0.10	335
W443661		4.7	0.40	3.4	8.5	1.79	8.1	2.41	1	143.5	0.2	0.60	0.52	0.37	0.12	324
W443662		4.9	0.36	3.3	8.9	1.85	16.0	2.57	<1	137.5	0.2	0.61	0.54	0.37	0.12	308
W443663		4.5	0.37	3.2	7.8	1.74	19.1	2.33	<1	193.0	0.2	0.60	0.41	0.36	0.10	339
W443664		4.9	0.39	3.2	8.3	1.75	20.5	2.53	<1	185.5	0.2	0.62	0.46	0.38	0.13	340

***** 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: 8-FEB-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18014784

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
W443625		1	0.8	0.09	4	1.0	0.02	<0.005	<0.005	0.001	0.07	<0.2	0.01	0.06	<0.5	<0.5
W443626		1	15.4	1.51	80	44.2	0.31	0.136	0.050	0.016	1.38	11.9	1.36	0.07	2.8	1.0
W443627		1	0.9	0.06	2	78.9	0.06	0.028	0.008	0.002	0.55	3.3	0.47	0.09	<0.5	<0.5
W443628		1	2.1	0.19	11	76.2	0.06	0.049	0.016	0.002	0.69	4.8	0.63	0.12	<0.5	0.5
W443629		1	7.9	0.83	59	39.4	0.04	0.054	0.010	0.003	0.60	3.2	0.28	0.76	<0.5	0.7
W443630		1	4.2	0.39	127	0.4	0.01	0.007	0.006	<0.001	0.05	<0.2	0.01	0.17	<0.5	<0.5
W443631		1	12.2	1.28	109	0.5	0.02	0.010	0.009	0.001	0.06	0.3	0.02	0.30	<0.5	<0.5
W443632		<1	20.8	2.31	57	1.0	0.01	0.009	0.011	0.002	<0.05	0.6	0.04	0.24	<0.5	0.6
W443633		<1	21.1	2.30	57	0.2	0.01	0.007	0.010	0.001	<0.05	0.3	0.02	0.10	<0.5	0.5
W443634		1	20.9	2.24	54	0.6	0.01	0.008	0.009	0.001	<0.05	0.7	0.02	0.17	<0.5	<0.5
W443635		2	12.2	1.26	33	31.7	0.05	0.006	0.008	0.003	0.05	3.6	0.13	0.10	<0.5	0.5
W443636		1	3.3	0.25	74	1.0	0.02	0.010	<0.005	<0.001	<0.05	0.3	0.04	0.13	<0.5	0.5
W443637		2	3.8	0.31	132	0.9	0.12	0.015	<0.005	<0.001	<0.05	0.3	0.01	0.15	<0.5	0.5
W443638		2	4.4	0.42	139	0.3	0.07	<0.005	<0.005	0.001	<0.05	0.2	0.01	0.14	<0.5	<0.5
W443639		1	4.2	0.38	147	0.2	0.04	<0.005	<0.005	0.001	<0.05	0.2	<0.01	0.08	<0.5	<0.5
W443640		1	4.1	0.35	136	0.3	0.03	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	0.09	<0.5	<0.5
W443641		1	17.4	2.01	42	1.4	0.01	<0.005	0.012	0.001	<0.05	0.6	0.04	0.12	<0.5	0.5
W443642		1	16.8	1.72	50	0.9	0.02	0.008	0.008	0.001	<0.05	0.5	0.04	0.12	<0.5	0.6
W443643		1	16.8	1.77	39	0.4	0.01	<0.005	0.006	0.001	<0.05	0.3	0.06	0.16	<0.5	0.7
W443644		1	18.7	2.01	50	0.3	0.01	<0.005	0.008	0.001	<0.05	0.4	0.05	0.16	<0.5	<0.5
W443645		3	14.3	1.38	108	3.8	0.80	0.012	0.066	0.005	0.31	4.8	0.67	0.09	2.3	1.6
W443646		1	17.9	2.06	49	0.1	0.01	0.008	0.006	0.001	<0.05	0.3	0.04	0.11	<0.5	0.9
W443647		<1	19.0	2.06	44	0.2	0.01	<0.005	0.008	<0.001	<0.05	0.3	0.04	0.05	<0.5	0.6
W443648		1	17.5	1.81	43	0.2	0.02	0.006	0.011	0.001	<0.05	0.4	0.04	0.10	<0.5	0.5
W443649		1	6.0	0.56	104	0.3	0.01	<0.005	0.010	<0.001	<0.05	<0.2	0.01	0.06	<0.5	<0.5
W443650		1	5.7	0.58	112	0.1	0.02	<0.005	0.005	<0.001	<0.05	<0.2	0.01	0.08	<0.5	<0.5
W443651		3	3.7	0.35	113	<0.1	0.03	<0.005	0.006	<0.001	<0.05	<0.2	0.01	0.07	<0.5	<0.5
W443652		1	4.0	0.36	108	0.3	0.08	<0.005	0.008	<0.001	<0.05	0.2	0.04	0.08	<0.5	<0.5
W443653		1	3.1	0.26	122	0.2	0.05	<0.005	<0.005	<0.001	<0.05	<0.2	0.02	0.09	<0.5	<0.5
W443654		<1	3.6	0.32	120	0.3	0.05	<0.005	<0.005	<0.001	<0.05	0.2	0.01	0.08	<0.5	<0.5
W443655		1	3.4	0.28	113	0.1	0.02	<0.005	<0.005	<0.001	<0.05	0.2	0.01	0.07	<0.5	<0.5
W443656		1	4.0	0.42	132	0.1	0.02	<0.005	<0.005	<0.001	<0.05	0.2	0.01	0.04	<0.5	<0.5
W443657		3	5.0	0.39	107	0.2	0.01	<0.005	0.005	<0.001	<0.05	<0.2	<0.01	0.04	<0.5	<0.5
W443658		<1	22.0	2.51	69	0.2	0.01	<0.005	0.011	0.001	<0.05	0.5	0.02	0.10	<0.5	<0.5
W443659		1	23.0	2.42	68	0.3	0.01	<0.005	0.010	0.001	<0.05	0.4	0.02	0.04	<0.5	<0.5
W443660		1	22.7	2.48	65	0.5	0.01	<0.005	0.010	0.001	<0.05	0.5	0.02	0.02	<0.5	0.8
W443661		1	23.8	2.44	69	0.3	0.01	<0.005	0.011	<0.001	<0.05	0.5	0.01	0.05	<0.5	0.8
W443662		1	23.1	2.36	66	0.4	0.01	<0.005	0.012	0.001	<0.05	0.5	0.03	0.13	<0.5	0.5
W443663		1	22.2	2.30	64	0.2	0.01	<0.005	0.008	0.001	<0.05	0.4	0.02	0.14	<0.5	0.6
W443664		1	22.9	2.41	69	0.4	0.01	<0.005	0.013	<0.001	<0.05	0.6	0.02	0.19	<0.5	1.0

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

Finalized Date: 8-FEB-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18014784

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
W443625		2	3	20	<1	1	7	<1	27	<0.001	<0.005	0.001	<0.003
W443626		154	5520	40	3	2130	4	25	76	0.122	0.730	0.379	11.65
W443627		85	65	<10	3	74	4	1	38	<0.001	<0.005	0.002	0.004
W443628		48	69	<10	2	44	7	2	112	<0.001	<0.005	0.002	0.005
W443629		32	56	20	1	55	12	14	145	<0.001	<0.005	0.001	0.014
W443630		5	11	30	<1	7	4	4	44	<0.001	<0.005	<0.001	0.027
W443631		26	62	40	<1	70	<2	19	129	<0.001	<0.005	0.001	0.201
W443632		61	166	20	<1	170	<2	44	252	<0.001	<0.005	0.001	0.429
W443633		50	117	20	<1	139	<2	38	154	<0.001	<0.005	0.001	0.318
W443634		51	150	40	1	145	<2	30	231	<0.001	<0.005	<0.001	0.320
W443635		60	118	20	1	102	<2	26	81	0.004	<0.005	<0.001	0.005
W443636		7	10	20	<1	12	2	2	49	<0.001	<0.005	0.001	0.214
W443637		6	16	30	1	11	7	3	212	<0.001	<0.005	<0.001	0.039
W443638		5	12	30	<1	8	6	3	90	<0.001	<0.005	<0.001	0.033
W443639		5	10	30	<1	9	7	3	89	<0.001	<0.005	<0.001	0.029
W443640		5	15	20	<1	7	2	3	85	<0.001	<0.005	<0.001	0.030
W443641		53	145	20	<1	150	<2	25	104	0.003	0.019	0.022	0.276
W443642		40	116	20	<1	88	<2	28	86	0.005	<0.005	0.004	0.290
W443643		53	148	30	<1	157	<2	33	93	0.006	0.021	0.023	0.293
W443644		53	135	30	<1	125	<2	30	87	0.002	0.019	0.020	0.352
W443645		116	4580	20	4	4390	23	12	106	0.081	0.295	0.598	4.90
W443646		51	141	20	<1	116	<2	38	94	0.005	0.015	0.015	0.161
W443647		51	156	20	<1	144	<2	32	96	0.003	0.021	0.023	0.319
W443648		49	131	20	<1	133	<2	30	90	0.002	0.022	0.025	0.331
W443649		5	12	10	<1	13	4	6	25	<0.001	<0.005	0.001	0.071
W443650		6	15	20	1	9	5	5	42	<0.001	<0.005	0.001	0.095
W443651		3	10	10	<1	4	4	2	40	<0.001	<0.005	<0.001	0.052
W443652		8	20	10	<1	13	6	5	49	<0.001	<0.005	0.001	0.178
W443653		2	5	20	<1	5	5	2	31	<0.001	<0.005	<0.001	0.073
W443654		2	6	10	<1	5	6	2	20	<0.001	<0.005	<0.001	0.079
W443655		3	5	10	1	5	5	2	20	<0.001	<0.005	<0.001	0.058
W443656		2	6	20	2	2	3	2	15	<0.001	<0.005	<0.001	0.077
W443657		3	5	30	<1	6	6	3	20	<0.001	<0.005	0.001	0.054
W443658		48	118	20	<1	97	<2	36	103	<0.001	<0.005	0.003	0.368
W443659		49	129	10	<1	101	<2	34	100	<0.001	<0.005	0.003	0.306
W443660		50	123	10	<1	105	<2	32	107	<0.001	<0.005	0.003	0.307
W443661		53	123	20	<1	109	<2	38	109	0.001	<0.005	0.003	0.309
W443662		45	115	20	<1	99	3	27	99	<0.001	<0.005	0.003	0.300
W443663		51	119	20	<1	110	2	32	109	<0.001	<0.005	0.002	0.267
W443664		50	121	30	<1	107	2	22	121	<0.001	<0.005	0.002	0.290

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

Finalized Date: 8-FEB-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18014784

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
W443665		1.33	17.80	0.39	0.12	25.7	21.3	0.11	0.14	<0.01	0.01	0.05	0.02	0.02	0.04	32.6
W443666		2.67	75.2	10.95	3.31	3.94	2.56	0.52	1.73	<0.01	0.25	0.11	0.06	0.01	0.03	2.37
W443667		2.46	75.9	10.85	2.59	3.28	1.93	0.55	1.92	<0.01	0.20	0.08	0.06	0.01	0.03	2.65
W443668		2.45	72.3	13.65	4.02	2.18	2.25	0.62	2.70	<0.01	0.25	0.11	0.08	0.01	0.04	3.00
W443669		2.44	72.8	14.30	3.17	2.06	1.97	0.69	2.97	<0.01	0.26	0.11	0.07	0.01	0.05	2.97
W443670		2.44	71.7	12.05	2.73	3.96	1.68	0.62	2.21	<0.01	0.22	0.11	0.06	0.02	0.03	2.93
W443671		2.40	72.8	13.90	3.35	2.95	1.50	1.15	2.45	<0.01	0.26	0.15	0.08	0.01	0.04	2.61
W443672		2.24	74.3	13.10	2.90	3.28	1.42	0.85	2.45	<0.01	0.24	0.15	0.07	0.01	0.04	2.52
W443673		2.53	73.7	11.60	4.55	2.44	1.88	0.34	2.78	<0.01	0.21	0.10	0.07	<0.01	0.04	3.30
W443674		2.54	75.3	11.65	4.06	2.71	1.88	1.06	1.82	<0.01	0.22	0.14	0.07	0.01	0.04	2.83
W443675		2.49	76.6	11.25	4.18	2.33	0.73	0.84	2.36	<0.01	0.21	0.12	0.07	0.01	0.06	2.83
W443676		3.25	58.4	9.21	17.15	1.69	0.70	0.56	2.13	<0.01	0.19	0.06	0.06	<0.01	0.04	9.59
W443677		2.40	71.5	13.45	4.17	3.21	1.73	1.50	1.88	<0.01	0.23	0.09	0.07	0.01	0.04	2.84
W443678		2.87	72.6	15.00	2.36	3.46	1.20	3.60	1.25	<0.01	0.25	0.04	0.06	0.02	0.04	1.55
W443679		2.27	41.6	12.75	19.60	7.92	6.46	1.22	0.47	0.03	0.66	0.20	0.05	0.01	0.01	7.21
W443680		2.95	49.8	13.00	11.85	9.39	7.45	1.79	0.39	0.03	0.68	0.21	0.05	0.01	0.01	4.30
W443681		3.08	47.8	13.70	12.05	10.40	7.97	1.88	0.38	0.03	0.71	0.24	0.06	0.01	0.01	3.70
W443682		2.80	48.5	14.25	11.30	10.35	8.16	1.62	0.38	0.04	0.74	0.23	0.05	0.01	0.01	3.36
W443683		2.96	47.6	14.05	12.40	8.37	9.52	2.03	0.24	0.04	0.63	0.24	0.05	0.01	0.01	3.60
W443684		2.89	47.5	13.30	14.05	9.20	8.38	1.75	0.28	0.04	0.93	0.25	0.07	0.01	0.01	2.68
W443685		0.04	42.0	8.94	15.55	15.75	10.75	0.62	0.25	0.11	0.70	0.15	0.13	0.01	0.03	4.01
W443686		3.21	47.3	14.00	12.30	9.65	8.57	1.92	0.51	0.04	0.60	0.26	0.03	0.01	0.01	3.77
W443687		3.54	6.24	0.80	43.8	2.66	1.06	0.05	0.08	<0.01	0.05	0.03	0.01	<0.01	<0.01	29.9
W443688		3.93	1.73	0.18	36.6	1.19	0.44	0.03	0.03	<0.01	0.01	0.01	<0.01	<0.01	<0.01	31.8
W443689		4.22	2.52	0.12	41.3	1.95	0.46	0.03	0.01	<0.01	0.01	0.01	<0.01	<0.01	<0.01	31.7
W443690		4.23	1.11	0.15	47.9	2.08	0.32	0.03	0.03	<0.01	0.01	0.01	0.01	<0.01	<0.01	30.6
W443691		3.07	1.60	0.19	46.0	1.19	0.43	0.03	0.02	<0.01	0.01	0.01	0.01	<0.01	<0.01	31.5
W443692		3.41	42.1	13.90	11.45	11.60	10.30	0.74	0.95	0.05	0.45	0.23	0.03	0.01	0.02	3.65
W443693		3.81	7.70	1.67	38.0	1.40	1.05	0.11	0.19	<0.01	0.07	0.03	0.02	<0.01	<0.01	29.3
W443694		3.63	17.90	4.28	33.6	0.76	1.11	0.26	0.71	<0.01	0.20	0.04	0.04	<0.01	0.01	24.7
W443695		2.63	61.4	14.25	8.97	3.28	5.38	0.53	1.82	0.01	0.76	0.12	0.18	<0.01	0.03	3.71
W443696		2.18	60.4	15.05	8.54	3.55	5.50	0.69	1.60	0.01	0.79	0.12	0.19	<0.01	0.02	3.68
W443697		2.09	59.9	14.60	8.57	4.26	5.53	0.79	1.54	0.01	0.83	0.13	0.21	<0.01	0.02	3.64
W443698		4.54	13.00	2.60	47.0	1.33	1.14	0.15	0.30	0.01	0.15	0.04	0.03	<0.01	0.01	26.7
W443699		1.12	61.6	14.40	9.49	4.47	3.77	1.34	1.43	0.01	0.74	0.11	0.18	<0.01	0.02	3.48
W443700		3.53	11.50	2.35	40.6	0.68	0.84	0.15	0.32	<0.01	0.12	0.04	0.02	<0.01	0.01	27.7
W443701		3.85	5.82	0.74	40.1	2.41	0.95	0.06	0.03	<0.01	0.03	0.04	<0.01	<0.01	<0.01	29.3
W443702		0.04	46.8	12.65	20.7	6.30	6.92	2.12	0.64	0.03	1.22	0.19	0.15	0.03	0.02	1.01

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

Finalized Date: 8-FEB-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18014784

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
W443665		98.30	8.98	<0.01	374	1.4	<10	1.05	0.11	0.07	<0.03	0.3	0.09	<5	<0.2	0.02
W443666		101.04	0.16	0.22	291	40.3	20	2.25	0.90	0.45	0.54	14.7	1.31	<5	2.5	0.16
W443667		100.05	0.16	0.67	229	43.5	10	2.06	0.64	0.26	0.67	14.8	1.15	<5	2.6	0.11
W443668		101.21	0.05	1.19	331	51.9	10	3.54	0.69	0.34	0.73	17.8	1.34	<5	3.3	0.12
W443669		101.43	0.10	0.71	432	54.7	10	3.75	0.73	0.30	0.73	19.1	1.29	<5	3.3	0.10
W443670		98.32	0.33	0.55	314	47.0	10	3.38	0.69	0.30	0.86	16.6	1.23	<5	3.0	0.11
W443671		101.25	0.14	0.54	382	54.8	10	3.31	0.65	0.36	0.77	18.9	1.36	<5	3.2	0.13
W443672		101.33	0.24	0.12	392	49.1	10	3.58	0.54	0.30	0.66	17.1	1.16	<5	3.1	0.10
W443673		101.01	0.42	1.10	352	46.2	10	3.37	0.69	0.33	0.65	15.2	1.13	<5	2.8	0.12
W443674		101.79	0.13	0.97	345	46.8	10	2.78	0.74	0.34	0.61	15.6	1.51	<5	3.0	0.13
W443675		101.59	0.09	1.94	542	46.0	10	3.46	0.72	0.40	0.65	14.9	1.23	<5	2.7	0.14
W443676		99.78	0.10	13.15	377	39.0	10	2.93	0.74	0.31	0.45	12.6	1.10	<5	2.4	0.13
W443677		100.72	0.20	1.19	310	29.6	10	2.55	0.82	0.42	0.51	17.6	1.23	<5	2.9	0.14
W443678		101.43	0.18	0.06	354	22.0	20	1.73	0.85	0.37	0.50	18.4	1.30	<5	2.9	0.15
W443679		98.19	0.20	8.10	73.0	6.4	220	2.08	2.45	1.57	0.55	14.1	2.15	<5	1.1	0.54
W443680		98.96	0.18	3.76	56.0	8.3	230	1.38	2.69	1.68	0.62	14.1	2.31	<5	1.0	0.58
W443681		98.94	0.20	2.22	63.7	5.4	240	1.10	2.75	1.92	0.70	15.3	2.31	<5	1.2	0.62
W443682		99.00	0.20	1.62	69.0	5.7	250	1.07	2.88	1.88	0.65	16.0	2.37	<5	1.1	0.62
W443683		98.79	0.12	2.23	42.7	5.5	260	0.95	2.63	1.76	0.66	14.9	2.14	<5	1.0	0.59
W443684		98.45	0.11	1.38	44.3	7.2	250	1.59	3.49	2.30	0.79	15.7	3.00	<5	1.4	0.79
W443685		99.00	0.25	2.66	284	20.8	730	0.45	2.48	1.45	0.76	10.9	2.71	<5	1.9	0.52
W443686		98.97	0.14	2.60	74.4	4.6	270	1.92	2.22	1.57	0.59	14.2	1.92	<5	0.9	0.53
W443687		84.68	0.43	47.9	14.0	2.1	10	0.25	0.33	0.22	0.08	0.9	0.34	<5	0.2	0.07
W443688		72.02	0.19	>50	0.9	0.5	<10	0.07	0.08	0.07	0.03	0.2	0.12	<5	<0.2	0.02
W443689		78.11	0.35	>50	0.5	0.5	<10	0.04	0.07	0.04	<0.03	0.1	0.07	<5	<0.2	0.02
W443690		82.25	0.45	>50	1.1	0.3	<10	0.07	0.05	0.04	<0.03	0.1	0.09	<5	<0.2	0.02
W443691		80.99	0.22	>50	0.7	0.7	10	0.05	0.08	0.06	0.04	0.1	0.12	<5	<0.2	0.02
W443692		95.48	0.61	2.54	194.0	4.0	340	2.31	1.45	1.03	0.44	11.9	1.32	<5	0.6	0.31
W443693		79.54	0.14	47.9	22.6	4.0	20	0.29	0.40	0.21	0.11	2.7	0.34	<5	0.4	0.07
W443694		83.61	0.02	39.8	124.0	11.5	20	1.07	0.97	0.59	0.26	6.8	1.07	<5	1.4	0.19
W443695		100.44	0.14	1.18	245	44.2	50	3.74	3.34	2.04	0.82	20.9	3.52	<5	4.8	0.68
W443696		100.14	0.18	0.47	175.0	49.4	60	3.60	3.86	2.19	0.86	21.8	4.27	<5	4.6	0.79
W443697		100.03	0.16	1.02	169.0	49.2	60	3.04	3.79	2.06	1.09	20.4	4.26	<5	4.7	0.71
W443698		92.46	0.10	42.7	44.1	9.2	30	0.44	0.86	0.45	0.17	4.4	0.86	<5	0.9	0.17
W443699		101.04	0.19	2.45	185.0	46.3	50	4.16	3.59	1.85	1.00	20.1	3.93	<5	4.7	0.70
W443700		84.33	0.02	45.7	44.1	9.1	20	0.33	0.75	0.43	0.16	4.0	0.71	<5	1.0	0.13
W443701		79.48	0.29	48.7	2.6	2.1	10	0.08	0.28	0.13	0.08	1.4	0.23	<5	0.2	0.04
W443702		98.78	0.07	1.82	212	26.5	240	0.92	2.53	1.42	1.00	16.5	2.85	<5	2.4	0.50

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

Finalized Date: 8-FEB-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18014784

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
W443665		0.9	0.01	0.7	0.4	0.12	6.3	0.07	<1	166.5	0.1	0.01	0.10	0.01	0.23	<5
W443666		22.2	0.07	3.2	13.7	4.13	38.6	1.91	<1	63.5	0.3	0.18	4.08	0.07	0.76	42
W443667		23.8	0.05	3.3	14.4	4.49	43.6	1.94	2	78.0	0.3	0.15	4.34	0.04	0.81	23
W443668		28.4	0.06	4.1	16.3	5.13	57.7	2.17	<1	103.5	0.4	0.17	5.47	0.05	1.06	30
W443669		29.9	0.04	5.6	17.7	5.67	69.1	2.34	<1	102.5	0.4	0.16	5.68	0.05	0.98	30
W443670		26.4	0.03	4.5	15.6	4.83	56.3	2.01	1	148.5	0.3	0.16	5.23	0.04	1.09	30
W443671		30.4	0.05	4.5	17.2	5.57	58.0	2.21	<1	149.5	0.4	0.16	5.47	0.05	0.97	31
W443672		27.2	0.05	4.2	15.3	4.92	58.1	1.96	<1	149.0	0.4	0.12	5.24	0.05	0.62	28
W443673		25.4	0.04	3.6	14.7	4.64	60.3	2.03	<1	59.2	0.3	0.14	4.62	0.06	1.06	26
W443674		25.5	0.07	3.6	15.4	4.81	45.7	2.01	<1	87.1	0.3	0.18	4.80	0.06	1.00	25
W443675		25.1	0.07	3.5	15.6	4.75	58.4	2.06	<1	114.5	0.3	0.17	4.49	0.05	1.05	26
W443676		21.2	0.05	2.9	13.1	4.04	50.4	1.77	<1	79.8	0.3	0.14	3.70	0.05	0.88	25
W443677		15.7	0.07	2.9	11.0	3.21	43.8	1.77	<1	108.5	0.3	0.19	2.92	0.07	0.84	32
W443678		11.8	0.04	2.6	8.9	2.38	27.6	1.60	<1	161.5	0.2	0.17	2.26	0.05	0.73	32
W443679		2.5	0.24	1.7	4.8	1.00	14.8	1.53	<1	120.0	0.1	0.38	0.33	0.27	0.12	272
W443680		3.3	0.28	1.5	5.5	1.27	13.1	1.71	<1	118.5	0.1	0.44	0.18	0.27	0.06	287
W443681		2.0	0.29	1.6	4.9	0.90	12.1	1.74	<1	114.0	0.1	0.44	0.17	0.30	<0.05	309
W443682		2.0	0.27	1.6	5.2	0.95	11.9	1.63	1	117.5	0.1	0.47	0.14	0.27	<0.05	317
W443683		1.9	0.27	1.4	4.7	0.91	6.9	1.66	<1	112.0	0.1	0.41	0.74	0.25	<0.05	276
W443684		2.5	0.35	2.0	6.0	1.17	7.5	2.00	<1	112.5	0.1	0.54	0.21	0.35	0.06	336
W443685		9.9	0.20	6.1	11.0	2.60	5.0	2.56	2	66.5	0.4	0.46	1.95	0.23	0.99	189
W443686		1.7	0.25	1.3	3.8	0.75	17.9	1.27	<1	121.0	0.1	0.37	0.12	0.23	<0.05	270
W443687		1.0	0.03	0.5	1.2	0.27	1.6	0.37	<1	5.0	<0.1	0.06	0.28	0.03	0.10	14
W443688		0.2	0.01	<0.2	0.3	0.07	<0.2	0.09	<1	1.7	<0.1	0.02	0.34	0.01	<0.05	6
W443689		0.2	0.01	<0.2	0.2	0.07	<0.2	0.03	<1	1.8	<0.1	0.01	<0.05	0.01	<0.05	<5
W443690		0.2	0.01	<0.2	0.2	0.04	0.2	0.05	<1	2.1	<0.1	0.01	0.05	0.01	0.07	<5
W443691		0.3	0.01	<0.2	0.4	0.08	<0.2	0.09	<1	1.2	<0.1	0.01	<0.05	0.01	<0.05	5
W443692		1.6	0.15	1.0	3.2	0.61	27.2	0.93	<1	93.9	0.1	0.26	0.11	0.13	<0.05	173
W443693		1.9	0.03	0.6	1.9	0.51	5.2	0.43	<1	8.4	<0.1	0.05	0.31	0.03	0.10	13
W443694		5.3	0.10	2.2	5.4	1.40	15.9	1.09	<1	20.1	0.1	0.17	0.94	0.10	0.28	30
W443695		20.0	0.29	10.2	20.2	5.16	43.0	3.96	1	40.7	0.7	0.54	4.24	0.32	1.13	102
W443696		22.7	0.33	11.0	22.9	5.83	38.1	4.72	1	45.5	0.7	0.64	4.30	0.33	1.09	110
W443697		22.3	0.31	11.3	22.7	5.91	35.2	4.65	1	50.1	0.7	0.64	4.31	0.32	1.14	106
W443698		4.1	0.07	1.9	4.6	1.14	6.5	0.97	<1	10.5	0.1	0.12	0.65	0.07	0.19	21
W443699		21.3	0.30	10.2	20.5	5.55	38.0	4.21	1	78.2	0.7	0.57	4.22	0.30	1.10	101
W443700		4.0	0.08	1.8	4.2	1.12	6.3	0.83	<1	9.4	0.1	0.12	0.64	0.06	0.22	15
W443701		0.9	0.02	0.3	1.1	0.25	0.5	0.23	<1	5.3	<0.1	0.04	0.14	0.02	0.20	9
W443702		11.9	0.20	7.2	13.2	3.30	15.3	2.91	4	246	0.4	0.43	1.43	0.22	0.44	121

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

Finalized Date: 8-FEB-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18014784

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
W443665		345	0.7	0.06	3	1.0	0.02	0.006	<0.005	<0.001	0.07	0.3	0.01	0.07	<0.5	<0.5
W443666		1	4.8	0.45	107	0.2	0.04	0.015	0.005	<0.001	<0.05	0.2	0.02	0.07	<0.5	<0.5
W443667		2	3.3	0.24	109	1.2	0.05	0.011	<0.005	<0.001	<0.05	<0.2	0.01	0.05	<0.5	<0.5
W443668		1	3.4	0.32	131	1.4	0.05	0.006	<0.005	0.001	<0.05	0.3	0.02	0.10	<0.5	<0.5
W443669		1	3.5	0.31	137	1.2	0.06	<0.005	<0.005	<0.001	<0.05	<0.2	0.01	0.07	<0.5	<0.5
W443670		14	3.3	0.26	125	1.3	0.05	0.009	<0.005	<0.001	<0.05	<0.2	0.03	0.07	<0.5	<0.5
W443671		2	3.4	0.28	131	0.5	0.07	<0.005	<0.005	<0.001	<0.05	<0.2	0.02	0.08	<0.5	<0.5
W443672		1	3.1	0.27	125	0.1	0.03	<0.005	<0.005	<0.001	<0.05	<0.2	0.01	0.09	<0.5	<0.5
W443673		20	3.5	0.29	118	0.4	0.09	<0.005	<0.005	<0.001	<0.05	<0.2	0.03	0.07	<0.5	<0.5
W443674		1	4.1	0.37	123	0.9	0.02	0.006	<0.005	<0.001	<0.05	0.2	0.01	0.08	<0.5	<0.5
W443675		2	4.2	0.32	116	2.2	0.06	0.030	0.005	0.001	0.08	0.2	0.04	0.10	<0.5	<0.5
W443676		1	3.6	0.31	95	8.5	0.07	0.019	<0.005	0.001	0.06	1.0	0.07	0.12	<0.5	<0.5
W443677		1	4.5	0.45	115	1.0	0.03	0.019	<0.005	<0.001	<0.05	0.2	0.02	0.07	<0.5	<0.5
W443678		1	4.0	0.36	113	0.4	0.03	0.019	0.006	<0.001	<0.05	<0.2	0.01	0.11	<0.5	<0.5
W443679		1	15.2	1.52	40	4.9	0.13	0.049	0.009	0.002	0.38	0.8	1.07	0.14	0.9	<0.5
W443680		1	16.4	1.68	36	5.5	0.02	0.032	0.011	0.001	0.43	0.5	0.22	0.09	<0.5	<0.5
W443681		1	17.0	1.69	39	4.7	0.02	0.044	0.015	<0.001	0.42	0.4	0.58	0.09	<0.5	0.5
W443682		1	17.3	1.84	39	3.7	0.02	0.059	0.010	<0.001	0.43	0.4	0.52	0.13	<0.5	<0.5
W443683		1	16.3	1.61	35	4.7	0.02	0.075	0.009	<0.001	0.46	0.5	0.59	0.12	<0.5	<0.5
W443684		1	21.2	2.25	50	3.8	0.01	0.062	0.011	<0.001	0.46	0.5	0.20	0.26	<0.5	0.5
W443685		1	14.5	1.39	75	38.5	0.28	0.107	0.044	0.014	1.30	10.5	1.28	0.05	2.5	0.8
W443686		1	14.4	1.54	32	3.5	0.02	0.091	0.009	<0.001	0.47	0.5	0.63	0.17	0.7	<0.5
W443687		1	2.0	0.25	9	74.0	0.08	0.035	0.008	0.001	0.46	2.8	0.38	0.27	<0.5	<0.5
W443688		<1	0.7	0.06	2	87.7	0.09	0.086	0.009	0.001	2.70	2.3	0.55	0.13	<0.5	<0.5
W443689		1	0.5	0.05	<2	111.5	0.07	0.092	0.007	<0.001	2.86	4.1	0.44	0.12	<0.5	<0.5
W443690		3	0.5	0.04	2	111.5	1.19	0.188	0.009	<0.001	7.50	2.6	1.34	0.22	0.9	<0.5
W443691		1	0.5	0.03	2	106.0	0.11	0.146	0.006	0.001	6.42	3.2	0.97	0.25	0.8	<0.5
W443692		2	8.8	0.79	23	10.3	0.01	0.065	0.008	<0.001	0.37	0.5	0.18	0.40	<0.5	<0.5
W443693		1	1.9	0.24	21	56.2	0.03	0.095	0.018	0.002	0.62	2.3	0.17	0.15	<0.5	<0.5
W443694		1	5.3	0.62	56	35.9	0.03	0.055	0.009	0.002	0.40	3.1	0.26	0.20	<0.5	<0.5
W443695		2	17.3	1.98	200	1.6	0.01	0.012	0.013	<0.001	0.12	0.3	0.06	0.35	<0.5	<0.5
W443696		2	20.2	1.95	200	1.1	0.01	0.009	0.016	<0.001	0.10	<0.2	0.02	0.31	<0.5	<0.5
W443697		1	19.7	1.99	196	1.9	0.01	0.018	0.014	<0.001	0.14	0.2	0.07	0.25	<0.5	<0.5
W443698		1	4.5	0.53	40	49.4	0.25	0.040	0.022	0.002	0.20	3.2	0.29	0.13	<0.5	0.7
W443699		2	18.5	1.91	195	3.8	0.05	0.022	0.018	0.001	0.14	0.6	0.08	0.82	<0.5	<0.5
W443700		1	3.7	0.45	39	45.4	0.31	0.063	0.018	0.002	0.20	4.1	0.49	0.12	<0.5	<0.5
W443701		2	1.5	0.17	9	49.8	0.44	0.045	0.016	0.001	0.12	2.3	0.60	0.07	<0.5	<0.5
W443702		4	12.7	1.36	102	4.0	0.72	0.014	0.057	0.003	0.29	4.3	0.54	0.08	2.1	0.8

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

ALS Canada Ltd.

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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: 8-FEB-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18014784

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
W443665		<1	1	40	<1	<1	5	<1	39	<0.001	<0.005	<0.001	<0.003
W443666		6	25	30	1	17	7	5	116	<0.001	<0.005	0.001	0.079
W443667		5	3	20	<1	4	4	3	98	<0.001	<0.005	<0.001	0.046
W443668		5	6	30	<1	10	8	3	57	<0.001	<0.005	<0.001	0.047
W443669		4	6	20	<1	9	5	3	46	<0.001	<0.005	0.001	0.038
W443670		5	9	20	<1	9	7	3	67	<0.001	<0.005	<0.001	0.049
W443671		7	14	30	<1	10	5	3	64	<0.001	<0.005	0.001	0.039
W443672		3	4	30	<1	6	2	3	44	<0.001	<0.005	<0.001	0.016
W443673		6	12	30	<1	9	2	3	44	<0.001	<0.005	<0.001	0.073
W443674		3	8	30	1	8	4	3	72	<0.001	<0.005	<0.001	0.061
W443675		7	8	20	<1	14	6	3	129	<0.001	<0.005	0.001	0.089
W443676		21	11	20	<1	24	7	3	77	0.006	<0.005	0.001	0.008
W443677		6	7	30	<1	9	4	4	84	<0.001	<0.005	0.001	0.073
W443678		5	12	20	<1	6	<2	4	47	<0.001	<0.005	0.001	0.020
W443679		39	94	30	<1	127	11	36	125	0.002	0.017	0.021	0.621
W443680		39	28	20	<1	100	8	38	101	0.004	0.018	0.019	0.457
W443681		46	39	40	<1	142	8	40	112	0.001	0.020	0.027	0.424
W443682		37	70	30	<1	144	9	39	129	<0.001	0.021	0.026	0.339
W443683		55	53	30	<1	139	6	38	141	0.001	0.021	0.024	0.334
W443684		40	101	20	<1	105	5	40	128	<0.001	0.020	0.022	0.419
W443685		145	5340	40	2	2030	10	24	77	0.084	0.686	0.367	11.05
W443686		25	67	40	<1	109	7	39	133	0.004	0.022	0.019	0.467
W443687		89	79	<10	2	56	10	2	26	0.004	<0.005	0.003	0.004
W443688		108	36	<10	2	51	15	1	38	0.016	<0.005	0.006	<0.003
W443689		87	29	<10	1	47	15	<1	21	0.015	0.007	0.008	<0.003
W443690		90	30	<10	2	54	25	<1	18	0.022	<0.005	0.006	0.003
W443691		108	51	<10	2	61	22	<1	4	0.015	<0.005	0.003	0.003
W443692		41	54	40	<1	201	5	23	158	<0.001	0.006	0.007	0.330
W443693		63	34	10	2	54	11	2	150	0.005	<0.005	0.001	0.006
W443694		36	65	10	2	39	12	4	93	<0.001	<0.005	0.002	<0.003
W443695		12	27	40	1	34	4	13	100	<0.001	<0.005	<0.001	0.167
W443696		18	24	40	<1	36	3	12	94	<0.001	<0.005	0.002	0.068
W443697		14	50	40	<1	38	3	13	133	<0.001	<0.005	<0.001	0.144
W443698		56	70	10	3	52	7	3	121	<0.001	<0.005	0.001	0.005
W443699		18	27	30	1	44	11	12	123	<0.001	<0.005	<0.001	0.443
W443700		39	74	10	2	43	11	2	183	<0.001	<0.005	0.001	0.005
W443701		44	87	<10	2	33	5	1	174	0.002	<0.005	0.002	0.004
W443702		113	4450	20	4	4270	26	12	102	0.062	0.280	0.626	4.66

***** 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: 8-FEB-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18014784

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		