ALS Canada Ltd.

2103 Dollarton Hwy
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www.alsglobal.com/geochemistry

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

Finalized Date: 10-APR-2018
Account: NAPEHZEU

CERTIFICATE TB18062402

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-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.
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 TB18062402

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
W871254		0.10	60.9	16.20	5.89	6.12	2.68	3.29	1.43	<0.01	0.48	0.12	0.16	0.05	0.06	1.08
W871255		0.09	42.4	9.15	15.15	16.00	10.90	0.63	0.23	0.11	0.69	0.14	0.13	0.01	0.03	4.11
W871256		2.42	48.6	14.50	13.40	10.50	6.95	1.88	0.33	0.03	0.81	0.22	0.07	0.01	0.01	1.01
W871257		2.41	49.7	15.30	13.05	11.30	5.82	2.27	0.27	0.03	0.87	0.23	0.06	0.01	0.01	0.94
W871258		2.31	51.6	16.40	12.60	10.60	4.56	2.82	0.25	0.04	0.92	0.24	0.07	0.01	0.01	1.34
W871259		2.49	48.6	14.45	13.45	10.25	6.99	1.77	0.40	0.03	0.80	0.22	0.07	0.01	0.01	1.75
W871260		2.37	48.0	14.55	13.45	10.20	7.00	1.49	0.54	0.03	0.81	0.21	0.06	0.01	0.01	3.63
W871261		2.38	49.8	15.30	11.90	10.20	5.15	2.74	0.20	0.04	0.87	0.23	0.07	0.01	0.01	1.79
W871262		2.46	50.1	15.70	11.60	11.85	4.17	2.43	0.21	0.04	0.84	0.21	0.06	0.02	0.01	2.54
W871263		2.36	50.7	15.55	11.10	10.60	4.06	2.92	0.24	0.04	0.86	0.22	0.06	0.01	0.01	1.75
W871264		2.34	51.2	16.20	11.85	11.55	4.65	2.30	0.31	0.05	0.88	0.23	0.07	0.01	0.01	1.84
W871265		2.46	46.8	15.05	12.85	11.25	5.63	2.20	0.43	0.03	0.82	0.25	0.06	0.01	0.01	3.65
W871266		2.34	50.4	15.65	11.80	11.30	4.61	2.17	0.31	0.04	0.84	0.22	0.06	0.01	0.01	1.96
W871267		2.44	49.4	15.35	13.10	12.75	5.40	2.11	0.36	0.03	0.84	0.24	0.05	0.01	0.01	1.75
W871268		2.35	50.2	16.10	12.25	11.65	4.99	2.66	0.29	0.04	0.88	0.23	0.06	0.01	0.01	1.30
W871269		2.49	50.1	15.80	12.55	11.10	4.91	2.17	0.28	0.04	0.87	0.22	0.06	0.01	0.01	1.29
W871270		2.55	49.8	15.65	12.80	11.95	5.05	2.01	0.31	0.04	0.84	0.23	0.06	0.01	0.01	1.27
W871271		2.35	51.4	15.85	11.40	11.40	4.25	2.51	0.18	0.05	0.86	0.22	0.07	0.01	0.01	1.00
W871272		2.34	50.9	15.75	12.00	11.75	4.26	2.58	0.15	0.04	0.85	0.23	0.05	0.02	0.01	0.97
W871273		2.21	50.8	16.10	10.80	11.70	3.81	2.66	0.23	0.03	0.86	0.21	0.06	0.01	0.01	1.23
W871274		0.07	47.5	12.55	20.4	6.12	6.55	2.16	0.63	0.03	1.23	0.19	0.16	0.03	0.02	1.15
W871275		2.18	53.2	15.65	10.70	10.85	4.10	2.79	0.16	0.03	0.87	0.19	0.07	0.01	0.01	1.36
W871276		2.83	50.2	15.90	11.20	11.60	4.23	2.53	0.20	0.03	0.86	0.23	0.05	0.01	0.01	1.71
W871277		2.88	47.8	14.55	13.35	12.05	6.03	1.84	0.20	0.03	0.78	0.23	0.06	0.02	0.01	1.62
W871278		2.81	51.9	16.20	12.15	10.20	4.43	3.63	0.18	0.03	0.89	0.26	0.06	0.01	0.01	1.57
W871279		2.36	53.9	16.35	10.30	8.67	4.16	4.07	0.15	0.04	0.90	0.24	0.07	0.01	0.01	0.96
W871280		2.91	46.3	14.95	14.45	11.55	6.31	2.03	0.29	0.03	0.79	0.26	0.06	0.01	0.01	4.01
W871281		2.42	49.0	15.30	12.90	12.30	4.67	1.52	0.57	0.03	0.84	0.28	0.07	0.01	0.01	2.29
W871282		2.63	51.2	14.80	13.35	9.60	4.97	0.86	1.12	0.03	0.80	0.33	0.06	<0.01	0.01	2.60
W871283		2.80	39.7	7.93	11.70	19.20	8.09	0.70	0.39	0.02	0.43	0.31	0.04	<0.01	<0.01	11.10
W871284		2.79	53.3	14.70	11.65	9.59	5.22	1.03	0.92	0.04	0.86	0.24	0.08	0.01	0.01	1.95
W871285		2.64	55.4	14.95	11.50	8.28	4.67	2.10	0.68	0.04	0.86	0.26	0.08	0.01	0.01	1.79
W871286		2.52	49.8	14.80	13.40	11.70	5.66	2.08	0.25	0.04	0.92	0.26	0.06	0.01	<0.01	1.45
W871287		2.53	51.5	14.40	12.95	9.65	5.26	1.56	0.38	0.04	0.92	0.24	0.08	0.01	0.01	2.25
W871288		2.35	51.3	13.30	12.00	12.90	5.59	1.25	0.38	0.04	0.81	0.22	0.05	0.01	<0.01	3.80
W871289		2.71	47.2	13.20	13.20	13.10	5.70	1.11	0.56	0.04	0.85	0.24	0.07	0.01	0.01	3.18
W871290		2.75	50.7	14.30	12.45	9.79	6.46	2.67	0.18	0.05	0.91	0.25	0.06	0.01	0.01	1.23
W871291		2.34	52.4	15.25	11.80	10.30	5.04	3.61	0.12	0.04	0.94	0.24	0.07	0.01	0.01	1.16
W871292		2.74	49.3	14.85	13.60	12.15	5.42	1.96	0.31	0.05	0.90	0.23	0.06	0.01	0.01	1.73
W871293		2.45	51.7	14.35	12.20	10.55	4.92	2.54	0.21	0.05	0.91	0.23	0.07	0.01	0.01	1.56

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THUNDER BAY ON P7B 2R2

Finalized Date: 10-APR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18062402

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
W871254		98.46	0.03	0.02	556	33.4	20	0.72	3.72	2.38	0.86	16.5	3.74	<5	3.8	0.82
W871255		99.68	0.23	2.63	283	20.4	740	0.44	2.56	1.35	0.65	11.3	2.42	<5	1.9	0.51
W871256		98.32	0.04	0.12	84.1	7.4	220	0.38	2.97	2.00	0.64	16.9	2.50	<5	1.4	0.66
W871257		99.86	0.09	0.11	72.1	8.0	220	0.24	3.17	2.06	0.71	18.2	2.49	<5	1.4	0.72
W871258		101.46	0.18	0.12	86.8	8.3	240	0.27	3.48	2.15	0.72	18.6	2.68	<5	1.5	0.73
W871259		98.80	0.14	0.07	87.2	7.1	210	0.56	2.91	1.90	0.60	17.1	2.29	<5	1.3	0.67
W871260		99.99	0.49	0.07	98.4	7.0	210	1.29	2.93	1.89	0.67	16.9	2.34	<5	1.3	0.62
W871261		98.31	0.26	0.15	64.4	7.6	240	0.27	3.05	1.93	0.70	17.5	2.67	<5	1.4	0.68
W871262		99.78	0.38	0.07	49.0	7.0	270	0.31	2.81	1.87	0.64	19.0	2.55	<5	1.3	0.65
W871263		98.12	0.25	0.09	64.3	7.3	240	0.24	2.92	2.11	0.62	17.7	2.36	<5	1.4	0.68
W871264		101.15	0.23	0.12	82.5	7.9	310	0.36	3.23	2.03	0.75	18.7	2.67	<5	1.4	0.71
W871265		99.04	0.55	0.08	108.5	7.0	210	0.62	2.81	1.97	0.60	17.1	2.31	<5	1.3	0.66
W871266		99.38	0.33	0.13	94.4	7.2	250	0.43	3.06	1.92	0.77	17.5	2.72	<5	1.3	0.66
W871267		101.40	0.34	0.18	101.0	7.3	220	0.41	3.24	2.02	0.58	16.7	2.56	<5	1.4	0.68
W871268		100.67	0.20	0.11	84.4	7.1	230	0.17	3.06	1.95	0.67	16.9	2.40	<5	1.4	0.66
W871269		99.41	0.15	0.19	87.6	7.5	270	0.36	3.11	2.13	0.59	17.1	2.74	<5	1.5	0.70
W871270		100.03	0.17	0.10	88.2	7.3	260	0.33	3.04	2.03	0.73	17.7	2.56	<5	1.5	0.70
W871271		99.21	0.17	0.10	97.2	7.5	310	0.15	2.92	1.95	0.69	18.0	2.55	<5	1.4	0.66
W871272		99.56	0.13	0.11	68.3	7.3	310	0.13	2.99	2.02	0.72	18.0	2.60	<5	1.4	0.65
W871273		98.51	0.26	0.11	82.4	7.5	220	0.14	3.06	2.02	0.73	16.3	2.56	<5	1.3	0.66
W871274		98.72	0.10	1.71	205	25.1	230	0.92	2.43	1.20	1.07	16.1	2.58	<5	2.1	0.47
W871275		99.99	0.25	0.14	61.9	7.9	230	0.15	3.03	2.03	0.63	17.0	2.63	<5	1.5	0.65
W871276		98.76	0.30	0.15	51.7	6.8	220	0.16	2.99	1.92	0.60	16.0	2.28	<5	1.3	0.64
W871277		98.57	0.26	0.08	50.1	6.9	220	0.30	2.96	1.76	0.61	17.1	2.42	<5	1.1	0.63
W871278		101.52	0.27	0.08	61.8	7.4	240	0.27	3.39	2.01	0.67	17.9	2.64	<5	1.6	0.68
W871279		99.83	0.14	0.10	65.3	7.9	240	0.23	3.19	1.95	0.65	17.4	2.63	<5	1.4	0.68
W871280		101.05	0.65	0.06	54.8	7.1	210	0.95	2.81	1.87	0.59	17.8	2.27	<5	1.3	0.60
W871281		99.79	0.37	0.08	66.1	6.7	210	0.84	2.78	1.76	0.59	16.4	2.28	<5	1.3	0.62
W871282		99.73	0.34	0.73	106.0	7.6	210	1.88	2.98	1.89	0.62	17.7	2.47	<5	1.5	0.64
W871283		99.61	3.00	0.81	28.9	7.0	150	0.88	2.01	1.33	0.48	10.0	1.91	<5	0.8	0.49
W871284		99.60	0.19	0.19	107.0	8.3	290	1.84	3.01	1.97	0.66	17.4	2.49	<5	1.5	0.68
W871285		100.63	0.18	0.15	83.7	8.1	290	1.15	2.84	2.01	0.64	17.9	2.54	<5	1.7	0.66
W871286		100.43	0.24	0.10	36.7	8.0	250	0.21	3.13	1.92	0.71	16.5	2.66	<5	1.5	0.68
W871287		99.25	0.30	0.19	60.3	8.1	260	0.70	3.04	2.13	0.61	17.4	2.72	<5	1.5	0.68
W871288		101.65	0.81	0.13	38.7	7.3	230	0.76	2.95	2.07	0.78	14.1	2.64	<5	1.3	0.70
W871289		98.47	0.67	0.17	99.0	8.5	290	0.97	3.18	2.54	0.75	16.7	2.99	<5	1.5	0.78
W871290		99.07	0.13	0.14	60.3	9.0	350	0.22	3.69	2.38	0.87	17.7	3.23	<5	1.6	0.84
W871291		100.99	0.21	0.18	54.2	9.2	300	0.09	3.59	2.57	0.85	17.3	3.06	<5	1.6	0.86
W871292		100.58	0.26	0.07	76.4	8.6	380	0.31	3.57	2.46	0.69	17.7	2.85	<5	1.5	0.79
W871293		99.31	0.24	0.14	45.8	8.8	380	0.20	3.74	2.40	0.83	17.8	3.19	<5	1.6	0.83

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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
W871254		15.7	0.40	6.5	18.1	4.51	24.4	4.29	1	475	0.3	0.67	3.44	0.34	1.42	142
W871255		10.1	0.20	7.1	11.1	2.59	4.7	2.68	2	64.3	0.4	0.46	1.93	0.21	0.93	176
W871256		2.9	0.28	2.2	6.2	1.21	9.7	1.83	<1	117.0	0.1	0.45	0.25	0.32	0.06	268
W871257		3.1	0.33	2.1	6.7	1.18	6.2	1.89	1	120.0	0.1	0.51	0.27	0.33	0.08	285
W871258		3.2	0.32	2.3	6.5	1.32	5.6	2.12	1	114.0	0.1	0.54	0.31	0.29	0.06	306
W871259		2.7	0.24	1.9	5.9	1.12	12.6	2.15	<1	118.5	0.1	0.45	0.25	0.27	0.06	265
W871260		2.7	0.27	1.9	5.5	1.08	20.3	1.93	<1	105.5	0.1	0.45	0.24	0.28	0.07	263
W871261		2.9	0.30	2.0	6.6	1.28	5.0	1.99	1	109.0	0.1	0.51	0.27	0.33	0.07	279
W871262		2.7	0.29	2.0	5.8	1.17	4.6	1.89	1	164.5	0.1	0.48	0.26	0.28	0.05	273
W871263		2.9	0.32	2.0	5.8	1.12	4.7	1.97	1	123.0	0.2	0.46	0.26	0.29	0.06	275
W871264		3.2	0.32	2.0	6.3	1.28	7.9	1.93	1	152.0	0.2	0.53	0.27	0.30	0.07	282
W871265		2.7	0.29	1.8	5.5	1.15	11.5	1.68	<1	93.9	0.1	0.46	0.23	0.30	0.06	262
W871266		2.7	0.27	1.9	5.9	1.11	8.0	2.04	1	122.5	0.1	0.47	0.22	0.31	0.06	270
W871267		2.9	0.29	1.8	5.8	1.11	8.8	1.81	<1	118.0	0.1	0.47	0.22	0.30	0.06	271
W871268		2.8	0.30	1.8	5.7	1.12	5.2	1.92	1	118.0	0.1	0.49	0.23	0.29	0.09	272
W871269		2.9	0.29	2.0	5.6	1.14	6.6	2.06	<1	109.5	0.1	0.49	0.29	0.34	0.28	281
W871270		2.8	0.32	1.9	5.7	1.20	6.7	1.77	2	106.5	0.1	0.46	0.26	0.26	0.13	272
W871271		2.9	0.29	1.9	6.2	1.13	3.7	2.01	1	131.0	0.1	0.52	0.26	0.29	0.10	283
W871272		2.9	0.28	1.9	5.8	1.16	2.9	2.19	1	168.0	0.1	0.49	0.25	0.28	0.06	278
W871273		3.0	0.28	1.7	5.7	1.14	3.4	1.81	1	111.5	0.1	0.48	0.22	0.28	0.07	260
W871274		11.8	0.17	6.6	13.2	3.18	14.9	3.03	4	249	0.5	0.43	1.39	0.18	0.42	113
W871275		3.0	0.31	2.0	6.1	1.18	3.4	2.06	1	109.5	0.2	0.52	0.26	0.33	0.07	285
W871276		2.7	0.28	1.9	5.4	1.06	3.4	1.76	<1	121.0	0.1	0.45	0.24	0.27	0.07	263
W871277		2.7	0.29	1.7	5.4	0.98	5.1	1.81	1	188.0	0.1	0.47	0.23	0.26	0.07	257
W871278		2.8	0.31	2.0	5.9	1.19	2.9	1.96	1	142.0	0.2	0.51	0.28	0.33	0.06	287
W871279		3.1	0.32	1.9	6.3	1.27	2.7	2.03	<1	128.0	0.4	0.51	0.25	0.33	0.08	287
W871280		2.8	0.28	1.7	5.5	1.08	7.9	1.78	1	102.5	0.1	0.44	0.23	0.27	0.06	258
W871281		2.6	0.28	1.8	5.2	1.04	12.7	1.69	<1	97.4	0.1	0.47	0.23	0.25	0.05	251
W871282		3.1	0.28	2.0	5.8	1.19	34.0	1.92	1	71.7	0.2	0.47	0.32	0.29	0.11	260
W871283		3.1	0.18	1.2	4.6	1.02	9.9	1.39	1	34.8	0.1	0.36	0.29	0.19	0.16	137
W871284		3.1	0.33	2.1	6.4	1.22	25.3	1.99	<1	67.4	0.1	0.45	0.29	0.32	0.09	288
W871285		3.2	0.31	2.1	6.4	1.21	14.6	1.87	1	80.3	0.2	0.47	0.30	0.32	0.09	279
W871286		3.1	0.32	2.1	6.3	1.25	4.4	2.18	1	97.4	0.1	0.54	0.29	0.33	0.06	275
W871287		3.3	0.30	2.3	6.1	1.27	9.3	2.04	1	79.9	0.2	0.49	0.31	0.30	0.06	282
W871288		2.9	0.30	2.0	5.7	1.02	8.4	1.86	<1	68.7	0.1	0.45	0.28	0.30	0.06	272
W871289		3.4	0.34	2.4	6.0	1.23	15.2	2.03	1	73.9	0.1	0.49	0.29	0.35	0.08	333
W871290		3.6	0.40	2.5	7.0	1.35	4.5	2.11	1	105.5	0.2	0.55	0.31	0.40	0.09	347
W871291		3.6	0.37	2.6	7.0	1.39	1.6	2.24	1	109.5	0.1	0.53	0.31	0.38	0.10	348
W871292		3.4	0.32	2.4	6.5	1.34	7.8	2.12	1	140.0	0.2	0.51	0.31	0.33	0.08	337
W871293		3.7	0.41	2.5	6.9	1.35	3.8	2.19	1	135.0	0.2	0.52	0.33	0.36	0.22	346

***** 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: 10-APR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18062402

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
W871254		6	20.8	2.43	133	0.8	0.04	<0.005	0.009	<0.001	0.14	<0.2	0.01	0.05	<0.5	<0.5
W871255		3	13.4	1.35	76	44.7	0.29	0.105	0.049	0.013	1.32	12.1	1.18	0.06	2.0	0.8
W871256		1	16.9	1.75	47	0.5	0.02	<0.005	0.009	<0.001	<0.05	0.4	0.02	0.05	<0.5	<0.5
W871257		<1	18.3	1.95	51	0.1	0.01	<0.005	0.007	<0.001	<0.05	0.7	0.02	0.04	<0.5	<0.5
W871258		1	18.8	1.94	54	<0.1	0.01	<0.005	0.012	<0.001	<0.05	0.2	0.02	0.05	<0.5	<0.5
W871259		1	16.6	1.84	47	0.2	0.01	<0.005	0.007	0.001	<0.05	0.3	0.02	0.04	<0.5	<0.5
W871260		<1	16.5	1.89	47	0.4	0.01	0.005	0.011	0.001	<0.05	0.3	0.03	0.04	<0.5	<0.5
W871261		1	18.0	1.96	51	0.1	0.01	<0.005	0.012	0.001	<0.05	0.6	0.02	0.06	<0.5	<0.5
W871262		1	16.8	1.71	49	0.4	0.01	<0.005	0.014	<0.001	<0.05	<0.2	0.01	0.04	<0.5	<0.5
W871263		1	16.9	1.89	50	0.1	0.01	0.010	0.011	0.001	<0.05	0.5	0.01	0.05	<0.5	<0.5
W871264		1	17.7	1.92	51	0.1	0.01	<0.005	0.011	<0.001	<0.05	0.2	0.03	0.07	<0.5	<0.5
W871265		1	16.4	1.83	47	0.2	0.01	<0.005	0.020	<0.001	<0.05	0.5	0.01	0.07	<0.5	<0.5
W871266		1	16.9	1.85	48	0.1	0.01	<0.005	0.011	0.001	<0.05	0.6	0.02	0.06	<0.5	<0.5
W871267		1	17.4	2.06	48	<0.1	0.01	0.008	0.008	<0.001	<0.05	0.5	0.02	0.05	<0.5	<0.5
W871268		<1	17.0	1.86	48	<0.1	<0.01	<0.005	0.009	0.001	<0.05	0.4	0.03	0.06	<0.5	<0.5
W871269		1	17.5	1.98	50	0.1	0.02	0.011	0.010	0.001	<0.05	0.3	0.03	0.08	<0.5	<0.5
W871270		1	17.3	1.99	48	<0.1	<0.01	<0.005	0.009	0.001	<0.05	0.3	0.02	0.05	<0.5	<0.5
W871271		1	17.3	1.88	50	<0.1	<0.01	<0.005	0.010	0.001	<0.05	0.4	0.02	0.05	<0.5	<0.5
W871272		1	17.4	1.80	49	0.1	0.01	<0.005	0.009	<0.001	<0.05	0.4	0.02	0.05	<0.5	<0.5
W871273		1	16.8	1.80	45	<0.1	0.01	<0.005	0.010	<0.001	<0.05	0.5	0.03	0.07	<0.5	0.5
W871274		4	12.1	1.12	89	3.6	0.87	0.010	0.067	0.007	0.33	5.4	0.52	0.09	2.1	0.7
W871275		1	17.9	1.84	50	<0.1	0.01	<0.005	0.009	0.001	<0.05	0.4	0.01	0.05	<0.5	<0.5
W871276		1	16.5	1.66	47	<0.1	0.01	<0.005	0.010	0.001	<0.05	0.7	0.02	0.06	<0.5	0.5
W871277		1	16.0	1.74	45	0.1	<0.01	<0.005	0.007	0.001	<0.05	0.4	0.01	0.03	<0.5	0.5
W871278		1	17.7	1.88	51	0.2	0.01	<0.005	0.009	<0.001	<0.05	0.3	0.02	0.03	<0.5	<0.5
W871279		1	17.6	1.64	52	0.1	0.01	<0.005	0.011	<0.001	<0.05	0.2	0.02	0.06	<0.5	0.5
W871280		1	16.0	1.97	46	0.3	0.01	<0.005	0.015	<0.001	<0.05	0.3	0.03	0.04	<0.5	0.5
W871281		1	15.9	1.72	44	0.2	0.01	<0.005	0.010	0.001	<0.05	0.2	0.02	0.05	<0.5	<0.5
W871282		3	16.4	1.85	51	0.4	0.03	<0.005	0.019	0.001	<0.05	1.0	0.17	0.19	<0.5	<0.5
W871283		1	13.5	1.14	31	1.5	0.02	<0.005	0.011	0.001	<0.05	1.1	0.17	0.07	0.5	0.9
W871284		3	17.7	1.92	53	0.3	0.01	<0.005	0.013	0.001	<0.05	0.5	0.04	0.12	<0.5	0.5
W871285		<1	16.8	2.01	65	0.4	0.01	<0.005	0.022	0.001	<0.05	0.7	0.03	0.08	<0.5	0.6
W871286		1	17.8	1.91	52	0.8	0.01	<0.005	0.010	0.001	<0.05	0.2	0.02	0.03	<0.5	0.5
W871287		1	17.5	2.01	54	0.5	0.01	<0.005	0.016	<0.001	<0.05	0.7	0.02	0.06	<0.5	0.5
W871288		1	16.3	1.83	43	0.2	0.01	<0.005	0.012	0.001	<0.05	0.5	0.02	0.05	<0.5	<0.5
W871289		1	19.5	2.29	51	0.3	0.01	0.006	0.013	0.001	<0.05	0.8	0.03	0.07	<0.5	0.8
W871290		1	19.9	2.35	53	0.3	<0.01	0.012	0.011	0.002	<0.05	0.4	0.01	0.04	<0.5	<0.5
W871291		1	20.7	2.50	55	0.2	0.01	<0.005	0.008	0.001	<0.05	0.6	0.01	0.04	<0.5	0.5
W871292		1	19.1	2.22	52	1.0	<0.01	<0.005	0.010	0.001	<0.05	0.4	0.02	0.04	<0.5	<0.5
W871293		1	19.8	2.39	54	1.1	<0.01	<0.005	0.012	0.001	<0.05	0.6	0.02	0.04	<0.5	0.5

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

Finalized Date: 10-APR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18062402

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
W871254		14	90	10	2	7	6	15	60	0.002	<0.005	0.001	0.026
W871255		141	5230	40	2	1965	5	23	77	0.208	0.705	0.371	10.00
W871256		51	160	20	<1	112	<2	36	109	0.001	0.005	0.004	0.422
W871257		52	150	10	<1	114	<2	36	112	0.001	<0.005	0.003	0.366
W871258		53	136	20	<1	125	<2	37	114	0.001	<0.005	0.004	0.291
W871259		49	113	20	<1	106	<2	33	114	0.002	<0.005	0.004	0.198
W871260		49	133	30	<1	107	<2	35	111	0.001	<0.005	0.003	0.196
W871261		52	157	20	<1	123	<2	37	109	0.001	<0.005	0.004	0.356
W871262		47	129	20	<1	117	<2	36	88	0.002	<0.005	0.004	0.202
W871263		55	136	20	<1	126	<2	37	120	0.001	0.005	0.004	0.269
W871264		52	147	30	1	129	<2	38	133	0.001	0.005	0.004	0.316
W871265		50	116	40	<1	111	<2	36	205	0.002	<0.005	0.004	0.244
W871266		53	145	20	<1	129	<2	36	104	<0.001	0.005	0.004	0.369
W871267		52	151	10	<1	117	<2	36	104	<0.001	<0.005	0.004	0.475
W871268		54	153	10	<1	125	<2	38	114	<0.001	<0.005	0.004	0.368
W871269		54	179	20	<1	127	<2	38	130	0.002	0.006	0.004	0.477
W871270		52	143	10	<1	120	<2	37	107	0.001	<0.005	0.004	0.313
W871271		53	145	10	<1	129	<2	38	104	0.001	<0.005	0.005	0.335
W871272		59	164	10	<1	139	3	42	111	0.001	<0.005	0.005	0.348
W871273		62	156	10	<1	134	<2	41	103	0.001	<0.005	0.005	0.383
W871274		114	4530	20	5	4380	23	12	113	0.072	0.330	0.577	3.85
W871275		56	152	10	<1	131	4	41	102	0.001	0.005	0.004	0.443
W871276		59	165	20	<1	129	<2	40	104	0.002	<0.005	0.004	0.448
W871277		51	144	10	<1	113	<2	36	97	<0.001	<0.005	0.004	0.315
W871278		56	153	20	<1	135	<2	40	114	0.001	0.005	0.004	0.260
W871279		59	125	10	<1	139	<2	40	104	0.001	0.005	0.005	0.278
W871280		53	186	40	<1	119	<2	35	106	0.002	<0.005	0.004	0.224
W871281		56	151	20	<1	123	3	38	116	0.001	<0.005	0.004	0.245
W871282		58	201	40	<1	122	<2	35	156	0.003	<0.005	0.004	0.905
W871283		40	137	20	<1	80	3	19	141	0.003	<0.005	0.002	0.899
W871284		54	129	40	<1	118	4	41	104	0.001	0.006	0.003	0.390
W871285		54	155	30	<1	120	<2	43	112	0.001	<0.005	0.003	0.355
W871286		51	152	20	<1	97	<2	42	105	0.002	<0.005	0.001	0.321
W871287		55	147	30	<1	105	3	43	104	0.001	<0.005	0.001	0.451
W871288		47	133	20	<1	86	<2	39	88	0.001	<0.005	<0.001	0.384
W871289		52	189	20	<1	103	<2	42	111	0.002	<0.005	0.001	0.463
W871290		55	182	10	<1	106	<2	39	107	0.001	<0.005	<0.001	0.460
W871291		53	155	10	<1	103	<2	42	117	<0.001	<0.005	<0.001	0.462
W871292		51	147	20	<1	106	<2	43	105	0.001	<0.005	0.001	0.277
W871293		52	165	20	<1	113	<2	42	99	<0.001	<0.005	0.001	0.413

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

Finalized Date: 10-APR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18062402

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
W871294		0.08	60.7	16.45	6.00	6.22	2.71	3.34	1.45	<0.01	0.48	0.12	0.13	0.05	0.06	1.07
W871295		2.25	48.5	16.10	13.45	9.88	7.70	2.20	0.33	0.01	0.98	0.18	0.10	0.02	0.01	-0.23
W871296		2.29	49.2	15.75	13.75	9.88	7.81	2.26	0.30	0.01	0.97	0.18	0.10	0.01	0.01	-0.26
W871297		2.23	49.4	15.90	13.75	9.80	7.60	2.35	0.34	0.01	1.02	0.19	0.11	0.01	0.01	0.00
W871298		2.29	49.9	15.85	13.80	9.96	7.58	2.32	0.33	0.01	1.05	0.19	0.11	0.01	0.01	-0.10
W871299		2.27	49.4	15.25	14.20	9.74	7.68	2.29	0.33	0.01	1.08	0.20	0.11	0.01	0.01	-0.14
W871300		2.29	49.4	14.95	14.55	9.74	7.66	2.26	0.33	0.01	1.11	0.20	0.11	0.01	0.01	-0.10
W871301		2.22	49.7	15.15	14.50	9.83	7.39	2.32	0.33	0.01	1.13	0.20	0.12	0.01	0.01	-0.17
W871302		2.24	49.7	14.70	14.80	9.80	7.08	2.33	0.38	0.01	1.21	0.20	0.12	0.01	0.01	-0.07
W871303		2.38	50.1	14.15	15.30	9.76	6.80	2.32	0.40	0.02	1.30	0.22	0.13	0.02	0.02	-0.05
W871304		2.32	49.2	14.30	14.60	9.78	6.97	2.38	0.38	0.01	1.21	0.20	0.12	0.02	0.01	0.20
W871305		2.29	74.3	12.45	2.72	2.38	1.13	3.80	1.19	<0.01	0.29	0.04	0.08	0.01	0.03	1.23
W871306		1.99	73.1	12.60	4.00	4.20	1.75	3.38	0.94	0.01	0.31	0.07	0.07	0.01	0.02	1.51
W871307		2.68	46.6	14.50	12.65	10.70	7.54	2.22	1.00	0.05	0.68	0.20	0.04	0.01	0.02	1.93
W871308		2.38	48.1	14.90	11.85	12.55	6.57	2.14	0.89	0.05	0.70	0.20	0.04	0.02	0.02	1.81
W871309		2.26	46.3	14.95	11.85	14.45	6.82	1.87	0.61	0.05	0.68	0.20	0.04	0.01	0.02	2.21
W871310		2.14	48.0	14.90	12.15	11.70	8.37	2.19	0.44	0.05	0.67	0.19	0.04	0.01	0.01	1.45
W871311		2.21	47.6	14.70	11.80	10.70	8.71	2.03	0.48	0.05	0.63	0.19	0.04	0.02	0.01	1.41
W871312		2.24	48.4	14.65	11.55	10.75	8.72	2.14	0.39	0.05	0.62	0.18	0.05	0.01	0.01	1.29
W871313		2.03	49.1	15.05	11.65	10.00	9.37	2.43	0.59	0.05	0.65	0.18	0.05	0.01	0.02	1.74
W871314		0.08	42.1	9.01	15.40	15.65	10.95	0.59	0.24	0.11	0.70	0.14	0.12	0.01	0.03	4.35
W871315		2.35	48.3	14.70	11.95	9.53	9.61	2.31	0.50	0.05	0.62	0.19	0.05	0.01	0.02	1.58
W871316		2.29	48.2	14.85	11.70	11.50	9.28	2.12	0.32	0.06	0.60	0.19	0.05	0.02	0.01	1.43
W871317		2.28	48.4	15.35	11.60	11.35	9.20	2.10	0.26	0.06	0.61	0.19	0.04	0.01	0.01	1.31
W871318		2.35	48.7	14.85	11.80	10.40	8.94	2.38	0.30	0.05	0.64	0.18	0.05	0.01	0.01	1.36
W871319		2.26	49.4	15.00	11.95	10.60	8.93	2.41	0.30	0.05	0.65	0.19	0.04	0.01	0.01	1.30
W871320		2.12	49.5	14.85	12.25	8.92	10.25	2.55	0.39	0.05	0.68	0.18	0.04	0.01	0.01	1.70
W871321		2.37	49.3	15.20	13.10	8.43	9.82	2.16	0.66	0.05	0.71	0.20	0.05	0.01	0.02	1.63
W871322		2.13	48.9	14.65	12.35	10.10	8.72	2.27	0.51	0.05	0.69	0.20	0.04	0.01	0.01	1.60
W871323		2.25	47.8	14.95	12.25	10.95	8.02	2.16	0.48	0.05	0.70	0.20	0.04	0.01	0.01	1.61
W871324		2.20	47.7	14.70	12.15	10.80	8.40	2.33	0.41	0.05	0.70	0.21	0.04	0.01	0.01	1.30
W871325		2.32	48.3	14.90	11.90	10.60	8.81	2.18	0.37	0.05	0.68	0.20	0.04	0.01	0.01	1.26
W871326		2.16	48.9	15.20	11.80	10.70	9.14	2.39	0.34	0.05	0.68	0.19	0.04	0.01	0.01	1.35
W871327		2.12	47.6	14.90	11.25	11.40	8.83	2.36	0.30	0.05	0.69	0.18	0.05	<0.01	0.01	1.53
W871328		2.20	47.4	14.75	12.20	10.50	8.27	2.33	0.38	0.05	0.70	0.25	0.03	0.01	0.01	1.13
W871329		2.09	65.7	13.15	7.50	6.05	2.89	3.69	0.33	0.02	0.41	0.20	0.08	0.01	0.02	1.29
W871330		2.19	54.0	14.95	10.80	9.10	6.34	3.14	0.47	0.03	0.76	0.21	0.07	0.01	0.02	1.66
W871331		0.08	47.5	13.15	21.1	6.48	6.86	2.23	0.66	0.03	1.30	0.20	0.15	0.03	0.02	1.30

***** 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: 10-APR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18062402

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
W871294		98.78	0.06	0.01	575	28.6	20	0.84	3.97	2.66	0.93	17.0	3.90	<5	4.0	0.88
W871295		99.23	0.02	0.01	101.5	12.9	90	0.59	3.15	2.06	0.83	18.7	3.18	<5	1.7	0.69
W871296		99.97	0.02	0.01	102.5	13.9	80	0.50	3.78	2.42	0.98	19.3	3.29	<5	2.0	0.79
W871297		100.49	0.02	0.01	115.0	14.1	80	1.02	3.70	2.28	0.95	19.6	3.33	<5	1.7	0.79
W871298		101.02	0.01	0.01	124.0	14.7	90	0.78	3.62	2.14	1.04	19.7	3.54	<5	1.7	0.77
W871299		100.17	0.02	0.01	123.5	15.2	90	0.71	3.99	2.53	1.10	19.4	3.56	<5	2.2	0.89
W871300		100.24	0.03	0.01	122.5	15.7	90	0.86	4.05	2.59	1.06	19.3	3.69	<5	2.2	0.93
W871301		100.53	0.02	0.01	111.0	14.9	90	0.73	3.93	2.49	1.10	19.3	3.70	<5	2.1	0.88
W871302		100.28	0.02	0.01	130.0	16.7	90	0.82	4.26	2.69	1.15	20.2	3.95	<5	2.2	0.95
W871303		100.49	0.03	0.01	148.5	18.5	110	0.86	4.83	2.88	1.18	20.7	4.47	<5	2.5	0.99
W871304		99.38	0.02	0.06	120.5	17.0	90	0.82	4.47	2.91	1.22	18.6	3.87	<5	2.2	0.90
W871305		99.65	0.04	0.06	250	41.4	20	0.51	0.89	0.43	0.67	16.3	1.56	<5	3.1	0.21
W871306		101.97	0.05	0.13	192.0	42.2	50	0.80	1.17	0.61	0.58	16.4	1.47	<5	3.1	0.24
W871307		98.14	0.07	0.21	225	5.3	360	4.18	2.79	1.96	0.56	14.8	2.35	<5	1.0	0.63
W871308		99.84	0.06	0.06	195.5	6.0	360	3.34	2.63	1.71	0.66	15.0	2.46	<5	1.0	0.62
W871309		100.06	0.10	0.11	165.5	5.5	380	3.46	2.74	1.96	0.53	14.9	2.19	<5	1.0	0.61
W871310		100.17	0.04	0.12	123.5	4.5	390	3.91	2.68	1.62	0.57	14.8	2.19	<5	0.9	0.58
W871311		98.37	0.04	0.09	126.0	4.3	410	3.50	2.49	1.70	0.53	14.3	1.97	<5	0.9	0.58
W871312		98.81	0.05	0.08	116.5	4.3	380	2.74	2.35	1.59	0.60	14.5	2.14	<5	0.8	0.55
W871313		100.89	0.04	0.07	157.0	4.5	400	3.29	2.57	1.76	0.56	14.5	2.11	<5	0.9	0.54
W871314		99.40	0.24	2.61	281	18.8	780	0.43	2.44	1.53	0.69	10.9	2.85	<5	2.0	0.53
W871315		99.42	0.04	0.08	163.0	4.2	390	3.22	2.44	1.68	0.52	14.5	2.05	<5	0.9	0.56
W871316		100.33	0.04	0.06	123.5	3.8	380	2.72	2.18	1.72	0.52	13.4	2.01	<5	0.9	0.51
W871317		100.49	0.03	0.07	106.0	4.1	410	1.61	2.20	1.52	0.51	13.9	1.89	<5	0.9	0.49
W871318		99.67	0.04	0.08	125.0	7.9	390	2.52	2.60	1.81	0.64	14.7	2.30	<5	0.9	0.61
W871319		100.84	0.04	0.08	129.0	5.5	380	2.97	2.42	1.71	0.51	14.5	2.16	<5	1.0	0.59
W871320		101.38	0.04	0.10	129.5	4.8	360	2.93	2.50	1.68	0.64	14.8	2.13	<5	0.9	0.60
W871321		101.34	0.03	0.08	180.0	4.7	360	2.48	2.53	1.70	0.55	14.8	2.11	<5	0.9	0.62
W871322		100.10	0.04	0.12	111.5	4.8	350	1.53	2.58	1.80	0.53	15.1	2.17	<5	1.1	0.57
W871323		99.23	0.04	0.09	100.5	5.1	340	2.43	2.59	1.88	0.64	16.0	2.11	<5	1.2	0.55
W871324		98.81	0.04	0.10	113.5	5.0	330	1.50	2.49	1.65	0.48	15.1	2.11	<5	0.9	0.51
W871325		99.31	0.04	0.08	119.5	4.6	350	1.20	2.49	1.60	0.65	16.3	1.91	<5	0.9	0.54
W871326		100.80	0.03	0.14	115.5	4.4	370	1.20	2.36	1.96	0.52	15.4	2.14	<5	1.0	0.52
W871327		99.15	0.03	0.10	97.1	5.2	340	1.97	2.54	1.71	0.56	15.8	2.16	<5	0.9	0.57
W871328		98.01	0.03	0.11	112.5	4.7	340	1.40	2.55	1.77	0.59	15.3	2.17	<5	1.0	0.55
W871329		101.34	0.08	0.26	164.0	34.4	130	0.71	1.54	0.99	0.66	15.8	1.93	<5	2.3	0.29
W871330		101.56	0.05	0.17	140.5	14.3	180	2.30	2.64	1.80	0.71	16.6	2.25	<5	1.7	0.54
W871331		101.01	0.09	1.73	208	25.5	220	1.00	2.48	1.38	1.03	16.6	2.89	<5	2.1	0.46

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

Finalized Date: 10-APR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18062402

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
W871294		13.2	0.44	3.4	16.7	3.84	28.7	3.85	1	486	0.2	0.61	3.06	0.37	1.36	163
W871295		5.8	0.29	3.3	8.7	1.85	7.2	2.24	1	145.0	0.2	0.54	0.85	0.31	0.24	273
W871296		6.2	0.32	3.5	8.9	1.96	7.0	2.50	1	152.0	0.2	0.54	0.88	0.33	0.28	280
W871297		6.4	0.31	3.8	9.1	1.94	9.1	2.65	2	153.0	0.2	0.59	0.88	0.34	0.33	281
W871298		6.7	0.32	3.7	9.4	2.00	7.9	2.72	1	154.0	0.2	0.59	0.89	0.35	0.25	302
W871299		6.8	0.34	4.1	10.3	2.12	8.1	2.85	1	152.0	0.2	0.59	1.02	0.35	0.28	313
W871300		7.3	0.35	4.1	11.0	2.18	8.3	2.74	1	149.0	0.2	0.62	1.10	0.38	0.33	320
W871301		6.8	0.33	4.0	9.8	2.04	8.0	3.05	1	143.0	1.2	0.63	0.99	0.32	0.31	314
W871302		7.5	0.40	4.5	10.8	2.26	9.7	3.19	1	147.0	0.3	0.75	1.09	0.40	0.35	349
W871303		8.3	0.39	4.7	12.0	2.54	10.8	3.42	1	147.0	0.3	0.72	1.22	0.43	0.47	373
W871304		7.8	0.36	4.1	11.1	2.29	9.7	2.96	1	139.0	0.3	0.67	1.08	0.36	0.78	332
W871305		23.4	0.07	4.0	15.1	4.38	27.2	2.12	1	115.5	0.3	0.22	4.54	0.08	0.90	38
W871306		23.6	0.07	3.7	14.8	4.35	19.9	2.40	1	114.5	0.3	0.22	4.00	0.09	0.88	56
W871307		2.2	0.27	1.5	4.3	0.89	23.0	1.50	1	126.0	0.1	0.43	0.23	0.28	0.12	288
W871308		2.6	0.25	1.4	4.7	0.92	18.7	1.59	<1	122.5	0.1	0.39	0.26	0.27	0.09	285
W871309		2.5	0.27	1.3	4.3	0.73	11.7	1.61	1	100.5	0.1	0.38	0.16	0.26	0.37	300
W871310		1.7	0.27	1.3	4.0	0.75	8.2	1.55	<1	104.5	0.1	0.41	0.15	0.26	0.05	284
W871311		1.6	0.25	1.3	3.9	0.67	10.1	1.40	1	128.5	0.1	0.34	0.13	0.25	<0.05	277
W871312		1.6	0.24	1.3	3.8	0.63	8.3	1.49	<1	107.5	0.1	0.39	0.11	0.25	0.05	273
W871313		1.6	0.24	1.2	3.8	0.71	14.2	1.50	1	123.5	0.1	0.37	0.11	0.28	0.06	278
W871314		9.4	0.22	5.9	9.9	2.35	4.6	2.45	2	61.8	0.3	0.39	1.81	0.21	1.01	193
W871315		1.5	0.24	1.3	3.5	0.68	11.9	1.26	<1	120.0	0.1	0.34	0.11	0.26	<0.05	272
W871316		1.5	0.25	1.0	3.4	0.66	5.5	1.31	<1	120.0	0.1	0.32	0.09	0.23	<0.05	243
W871317		1.6	0.20	1.1	3.4	0.63	4.0	1.32	<1	95.7	<0.1	0.32	0.17	0.21	<0.05	256
W871318		3.6	0.24	1.6	5.6	1.12	5.6	1.67	<1	109.0	0.1	0.41	0.84	0.25	<0.05	279
W871319		2.3	0.23	1.3	4.4	0.81	5.6	1.65	<1	105.5	0.1	0.40	0.30	0.24	<0.05	281
W871320		1.8	0.26	1.3	3.8	0.76	8.3	1.53	1	110.5	0.1	0.39	0.14	0.24	0.09	278
W871321		1.7	0.24	1.4	4.3	0.77	16.6	1.48	<1	117.0	0.1	0.37	0.17	0.24	<0.05	292
W871322		1.8	0.25	1.4	4.1	0.74	12.4	1.38	<1	103.5	0.1	0.41	0.17	0.24	0.05	283
W871323		2.0	0.32	1.5	4.4	0.84	13.2	1.62	1	114.0	0.1	0.39	0.15	0.25	0.20	264
W871324		1.8	0.26	1.3	4.4	0.80	9.9	1.37	<1	103.0	0.1	0.37	0.18	0.26	0.07	254
W871325		1.7	0.25	1.3	3.9	0.77	8.9	1.42	<1	109.0	0.1	0.38	0.13	0.24	<0.05	250
W871326		1.7	0.25	1.4	4.3	0.79	7.6	1.41	1	108.5	0.1	0.38	0.14	0.27	0.07	256
W871327		2.1	0.26	1.4	4.3	0.81	6.1	1.56	1	87.0	0.1	0.37	0.12	0.26	0.10	251
W871328		1.8	0.27	1.5	4.0	0.77	7.3	1.47	1	97.0	0.1	0.40	0.15	0.25	<0.05	256
W871329		19.8	0.16	2.9	12.8	3.54	5.8	1.93	1	98.7	0.2	0.26	3.00	0.13	0.68	108
W871330		7.2	0.26	2.3	7.4	1.77	9.5	1.86	<1	107.5	0.2	0.43	1.13	0.27	0.23	233
W871331		12.2	0.18	7.2	13.3	3.21	15.7	2.78	4	245	0.4	0.43	1.36	0.20	0.46	115

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

Finalized Date: 10-APR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18062402

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
W871294		7	22.1	2.68	145	1.1	0.06	<0.005	0.010	0.001	0.13	<0.2	0.01	0.05	<0.5	<0.5
W871295		1	17.9	1.77	58	0.6	0.01	<0.005	0.014	0.001	<0.05	0.3	<0.01	0.08	<0.5	<0.5
W871296		1	18.3	2.09	70	0.5	0.01	<0.005	0.015	0.001	<0.05	0.5	<0.01	0.07	<0.5	0.5
W871297		1	19.0	2.18	64	0.4	0.02	<0.005	0.015	<0.001	<0.05	0.3	<0.01	0.11	<0.5	<0.5
W871298		1	19.3	2.03	61	0.4	0.02	<0.005	0.014	0.001	<0.05	0.2	0.01	0.08	<0.5	<0.5
W871299		1	20.8	2.30	75	0.5	0.02	<0.005	0.015	<0.001	<0.05	0.3	<0.01	0.07	<0.5	0.6
W871300		1	21.0	2.30	72	0.6	0.02	<0.005	0.018	0.001	<0.05	0.3	0.01	0.09	<0.5	0.7
W871301		1	20.6	2.30	70	0.4	0.02	<0.005	0.014	0.002	<0.05	0.2	<0.01	0.08	<0.5	0.5
W871302		1	22.4	2.53	80	0.7	0.02	<0.005	0.017	0.001	<0.05	0.4	<0.01	0.22	<0.5	<0.5
W871303		11	24.6	2.77	83	0.6	0.02	<0.005	0.015	<0.001	<0.05	0.4	<0.01	0.07	<0.5	<0.5
W871304		1	22.2	2.38	76	0.5	0.02	<0.005	0.014	0.001	<0.05	0.3	<0.01	0.38	<0.5	<0.5
W871305		2	4.9	0.48	117	0.7	0.03	<0.005	0.008	<0.001	<0.05	<0.2	<0.01	0.03	<0.5	<0.5
W871306		1	5.8	0.57	122	0.6	0.04	<0.005	0.010	<0.001	<0.05	0.5	0.01	0.03	<0.5	<0.5
W871307		1	14.9	1.80	33	0.3	0.04	<0.005	0.012	0.001	<0.05	0.3	0.03	0.03	<0.5	<0.5
W871308		1	14.7	1.79	33	0.3	0.03	<0.005	0.012	<0.001	<0.05	0.4	0.04	0.02	<0.5	<0.5
W871309		1	15.0	1.63	33	0.5	0.05	<0.005	0.013	0.001	<0.05	0.4	0.04	0.02	<0.5	<0.5
W871310		1	14.0	1.82	31	0.1	0.04	<0.005	0.008	0.001	<0.05	0.3	0.02	<0.02	<0.5	<0.5
W871311		1	13.5	1.61	30	0.6	0.03	<0.005	0.008	<0.001	<0.05	0.6	0.03	0.02	<0.5	<0.5
W871312		1	13.3	1.68	30	0.2	0.02	0.005	0.009	0.001	<0.05	0.4	0.03	<0.02	<0.5	<0.5
W871313		1	13.8	1.66	30	0.4	0.03	<0.005	0.009	0.001	<0.05	0.6	0.03	<0.02	<0.5	<0.5
W871314		2	13.3	1.43	76	49.1	0.31	0.146	0.058	0.019	1.45	13.5	1.41	0.06	2.2	0.6
W871315		1	13.4	1.77	29	0.2	0.03	0.005	0.008	0.001	<0.05	0.5	0.03	<0.02	<0.5	<0.5
W871316		1	12.7	1.54	25	0.3	0.02	<0.005	0.009	0.001	<0.05	0.5	0.04	<0.02	<0.5	<0.5
W871317		<1	12.3	1.37	26	0.1	0.02	<0.005	0.008	0.001	<0.05	0.6	0.03	<0.02	<0.5	<0.5
W871318		<1	14.2	1.80	31	0.3	0.02	<0.005	0.008	0.001	<0.05	0.5	0.04	<0.02	<0.5	<0.5
W871319		<1	14.2	1.65	31	0.2	0.01	<0.005	0.009	0.001	<0.05	0.4	0.03	<0.02	<0.5	<0.5
W871320		1	13.1	1.58	31	0.7	0.05	<0.005	0.013	0.001	<0.05	0.5	0.03	<0.02	<0.5	<0.5
W871321		1	13.9	1.65	34	0.3	0.03	<0.005	0.010	0.001	<0.05	0.4	0.04	0.02	<0.5	<0.5
W871322		1	14.5	1.74	33	<0.1	0.02	<0.005	0.008	0.001	<0.05	0.4	0.04	<0.02	<0.5	<0.5
W871323		1	15.3	1.76	37	0.3	0.03	<0.005	0.010	0.001	<0.05	0.6	0.02	<0.02	<0.5	<0.5
W871324		1	14.6	1.65	35	0.1	0.03	<0.005	0.008	0.001	<0.05	0.3	0.04	<0.02	<0.5	<0.5
W871325		1	14.0	1.75	34	0.6	0.04	<0.005	0.006	0.001	<0.05	0.3	0.01	0.02	<0.5	<0.5
W871326		1	14.2	1.73	35	1.3	0.05	<0.005	0.006	0.001	<0.05	0.6	0.02	0.02	<0.5	<0.5
W871327		1	14.9	1.63	34	1.1	0.07	<0.005	0.009	0.001	<0.05	0.4	0.02	0.03	<0.5	<0.5
W871328		1	14.4	1.78	36	0.1	0.01	<0.005	0.008	0.001	<0.05	0.4	0.03	0.07	<0.5	<0.5
W871329		<1	8.7	0.97	92	0.2	0.05	<0.005	0.011	<0.001	<0.05	0.3	0.03	0.05	<0.5	<0.5
W871330		1	14.6	1.54	63	0.2	0.03	<0.005	0.009	0.001	0.06	0.5	0.01	0.03	<0.5	<0.5
W871331		4	12.3	1.26	100	3.8	0.85	0.011	0.069	0.005	0.35	5.7	0.61	0.11	1.8	0.6

***** 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: 10-APR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18062402

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
W871294		14	92	10	2	7	6	17	62	0.001	<0.005	0.001	0.028
W871295		60	156	20	1	186	3	24	100	0.004	0.008	0.018	0.151
W871296		59	158	10	<1	195	<2	23	101	0.003	0.007	0.016	0.154
W871297		57	158	10	<1	186	<2	24	98	0.002	0.007	0.016	0.147
W871298		61	164	10	<1	186	3	23	113	0.003	0.006	0.016	0.141
W871299		58	176	10	<1	183	3	24	116	0.003	0.006	0.017	0.158
W871300		58	170	10	<1	179	2	26	110	0.003	0.006	0.018	0.155
W871301		58	184	10	<1	173	<2	26	109	0.003	0.006	0.018	0.162
W871302		56	195	10	<1	155	5	29	114	0.003	0.006	0.019	0.139
W871303		54	205	10	<1	135	6	32	126	0.004	0.005	0.021	0.159
W871304		58	237	20	<1	172	<2	29	148	0.005	0.008	0.021	0.279
W871305		12	28	40	1	12	17	4	51	<0.001	<0.005	0.001	0.101
W871306		14	35	40	<1	27	7	7	279	<0.001	<0.005	0.002	0.125
W871307		50	131	40	<1	154	2	37	80	0.003	0.013	0.016	0.218
W871308		44	80	40	<1	145	<2	39	77	0.001	0.013	0.016	0.146
W871309		46	134	40	<1	156	<2	38	58	0.001	0.013	0.016	0.232
W871310		48	137	20	<1	161	<2	37	76	0.002	0.015	0.017	0.310
W871311		47	149	30	<1	162	<2	36	82	0.003	0.015	0.018	0.267
W871312		47	146	20	<1	155	<2	36	82	0.003	0.014	0.017	0.289
W871313		45	128	30	<1	157	<2	35	64	0.003	0.013	0.017	0.291
W871314		143	5340	40	3	2010	5	23	71	0.127	0.740	0.377	10.10
W871315		46	172	30	<1	163	<2	36	73	0.003	0.015	0.016	0.302
W871316		48	159	20	<1	162	<2	35	75	0.003	0.016	0.019	0.278
W871317		47	144	20	<1	166	<2	37	80	0.003	0.017	0.018	0.331
W871318		49	154	20	<1	159	<2	36	88	0.004	0.014	0.016	0.335
W871319		46	173	20	<1	158	<2	35	100	0.005	0.015	0.017	0.335
W871320		48	109	30	<1	157	<2	34	79	0.002	0.013	0.016	0.300
W871321		48	117	30	<1	153	<2	33	70	0.002	0.013	0.015	0.300
W871322		45	141	20	<1	149	<2	38	80	0.002	0.010	0.011	0.335
W871323		52	153	20	<1	158	<2	38	77	0.006	0.012	0.016	0.353
W871324		50	164	20	<1	154	<2	39	76	0.004	0.013	0.016	0.335
W871325		51	143	20	<1	158	<2	35	72	0.004	0.013	0.015	0.337
W871326		50	170	20	<1	160	2	36	75	0.003	0.014	0.017	0.349
W871327		45	94	20	<1	144	<2	36	63	<0.001	0.012	0.014	0.287
W871328		43	151	20	<1	151	4	36	82	0.001	0.013	0.015	0.325
W871329		21	71	20	<1	57	2	16	47	<0.001	<0.005	0.005	0.189
W871330		40	103	30	<1	99	<2	33	64	<0.001	<0.005	<0.001	0.272
W871331		112	4470	20	5	4300	21	12	106	0.107	0.266	0.610	3.97

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CERTIFICATE OF ANALYSIS TB18062402

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		