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: 8-MAR-2018
Account: NAPEHZEU

CERTIFICATE TB18037054

Project: Gfields

P.O. No.: 178845

This report is for 78 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 18-FEB-2018.

The following have access to data associated with this certificate:

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

SAMPLE PREPARATION

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

ANALYTICAL PROCEDURES

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

To: **NORTH AMERICAN PALLADIUM EXPLORATION**
ATTN: DAVID BENSON
556 TENTH AVE.
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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 TB18037054

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
W870249		0.04	62.0	16.40	6.03	6.19	2.78	3.28	1.49	<0.01	0.49	0.12	0.14	0.06	0.06	1.00
W870250		0.08	42.0	9.03	15.35	15.80	11.00	0.60	0.24	0.11	0.71	0.14	0.10	<0.01	0.03	3.79
W870251		2.37	47.6	14.55	13.45	11.55	5.92	2.32	0.30	0.03	1.11	0.33	0.08	0.01	0.01	0.89
W870252		2.31	50.3	15.35	12.70	11.75	5.35	2.26	0.34	0.03	1.07	0.27	0.09	0.01	0.01	1.18
W870253		2.51	47.6	15.00	13.10	12.00	5.84	2.19	0.45	0.04	1.15	0.31	0.08	0.02	0.01	1.45
W870254		2.30	50.2	14.50	12.30	11.50	5.23	2.64	0.45	0.04	1.09	0.28	0.08	0.02	0.01	1.53
W870255		2.36	47.3	14.95	12.50	12.50	5.39	2.10	0.44	0.03	1.15	0.31	0.10	0.01	0.01	1.26
W870256		2.21	42.0	15.35	18.55	10.85	6.55	0.72	1.41	0.04	1.21	0.46	0.10	0.01	0.03	2.45
W870257		2.04	56.3	13.80	9.85	8.85	3.89	2.54	1.29	0.03	0.79	0.23	0.05	0.01	0.07	0.72
W870258		2.51	49.5	14.50	12.40	11.70	4.89	2.51	0.57	0.03	0.98	0.25	0.08	0.03	0.02	0.84
W870259		2.43	53.5	15.35	11.30	8.99	4.89	3.66	0.60	0.03	1.01	0.22	0.08	0.02	0.03	0.80
W870260		2.37	51.9	14.50	11.75	9.96	4.96	3.21	0.82	0.03	0.88	0.21	0.06	0.02	0.03	1.01
W870261		2.70	47.6	14.20	14.85	12.00	6.01	2.56	0.55	0.03	0.92	0.29	0.07	0.01	0.01	1.22
W870262		2.35	51.0	15.35	14.25	7.74	5.88	3.48	0.57	0.04	1.08	0.32	0.06	0.02	0.02	1.22
W870263		2.28	54.3	13.75	11.75	8.16	7.10	2.65	0.97	0.06	0.70	0.23	0.04	0.01	0.02	1.20
W870264		2.62	50.3	14.15	12.15	10.75	7.22	1.88	0.69	0.03	0.71	0.20	0.02	0.01	0.01	1.09
W870265		2.46	52.7	13.60	11.40	10.55	6.71	2.38	0.93	0.07	0.72	0.20	0.04	0.01	0.02	1.25
W870266		2.71	51.0	12.95	14.15	10.90	6.68	2.45	0.77	0.03	0.83	0.28	0.06	0.01	0.01	0.71
W870267		2.42	48.3	13.75	13.70	10.30	7.59	2.58	0.40	0.06	0.93	0.27	0.04	0.01	0.01	1.23
W870268		2.70	48.6	12.00	12.30	14.80	8.06	1.78	0.42	0.06	0.65	0.26	0.06	0.01	0.01	1.35
W870269		0.09	46.5	12.55	20.9	6.17	6.70	2.15	0.64	0.03	1.22	0.19	0.15	0.03	0.02	1.26
W870270		2.47	48.5	13.45	13.45	11.75	7.81	2.02	0.44	0.03	0.84	0.24	0.05	0.01	0.01	1.38
W870271		2.30	50.7	13.55	13.85	10.35	7.09	2.32	0.43	0.03	0.86	0.23	0.04	0.01	0.01	0.76
W870272		2.37	47.9	13.70	14.60	11.20	7.37	2.06	0.35	0.03	0.91	0.23	0.03	0.01	0.01	1.10
W870273		2.35	48.7	13.30	13.95	11.85	7.16	1.86	0.36	0.03	0.88	0.23	0.04	0.01	0.01	1.25
W870274		2.41	47.7	13.80	14.90	11.50	7.96	1.92	0.27	0.03	0.92	0.25	0.04	0.01	0.01	1.07
W870275		2.63	48.2	13.90	15.00	9.84	8.63	1.97	0.30	0.03	0.89	0.24	0.02	0.01	0.01	1.48
W870276		2.66	47.1	13.25	15.05	9.87	8.65	1.85	0.33	0.03	0.91	0.25	0.03	0.01	0.01	1.54
W870277		2.60	47.3	13.50	14.90	12.30	7.27	1.72	0.25	0.03	0.91	0.25	0.04	0.01	0.01	1.34
W870278		2.53	51.8	13.90	12.50	9.98	6.26	2.38	0.49	0.03	0.84	0.22	0.04	0.01	0.01	1.74
W870279		2.52	48.2	13.65	14.40	10.95	7.55	1.92	0.31	0.03	0.88	0.26	0.03	0.01	0.01	1.05
W870280		2.11	48.4	13.85	14.15	11.05	6.90	1.91	0.63	0.03	0.86	0.24	0.07	0.02	0.01	1.77
W870281		2.16	57.4	14.65	8.66	7.66	4.86	3.29	1.04	0.02	0.66	0.15	0.15	0.05	0.05	0.83
W870282		2.74	46.6	12.00	12.35	13.35	7.91	1.87	0.48	0.05	0.76	0.28	0.07	0.01	0.01	2.35
W870283		2.53	50.0	13.70	14.10	10.60	7.16	2.33	0.63	0.03	0.99	0.29	0.05	0.02	0.02	1.11
W870284		1.72	70.4	10.25	6.34	5.62	2.90	2.33	0.66	0.02	0.49	0.12	0.10	0.04	0.04	1.09
W870285		1.69	60.5	15.10	6.13	5.75	3.58	4.12	1.32	0.02	0.57	0.10	0.21	0.08	0.07	1.30
W870286		2.29	61.7	15.55	6.29	5.67	3.69	4.18	1.81	0.02	0.59	0.10	0.21	0.08	0.08	1.24
W870287		2.09	70.0	11.10	5.11	4.83	2.60	2.72	0.90	0.01	0.43	0.08	0.15	0.05	0.05	0.77
W870288		2.22	62.0	15.45	6.20	5.47	3.73	4.00	1.89	0.02	0.59	0.10	0.22	0.08	0.09	0.94

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556 TENTH AVE.
THUNDER BAY ON P7B 2R2

Finalized Date: 8-MAR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18037054

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
W870249		100.04	0.03	0.01	625	29.6	10	0.70	4.03	2.56	0.88	17.0	4.12	<5	3.9	0.86
W870250		98.90	0.24	2.62	304	20.0	770	0.43	2.53	1.53	0.73	11.3	2.67	<5	1.9	0.55
W870251		98.15	0.10	0.07	65.3	8.4	230	0.64	3.54	2.30	0.89	18.0	3.07	<5	1.3	0.74
W870252		100.71	0.17	0.12	54.0	9.0	230	0.91	3.35	2.26	0.85	18.4	2.98	<5	1.2	0.75
W870253		99.24	0.16	0.07	74.5	7.4	330	0.99	3.51	2.30	0.86	18.6	2.94	<5	1.2	0.75
W870254		99.87	0.23	0.07	72.3	8.1	290	0.91	3.46	2.23	0.78	17.1	2.90	<5	1.3	0.73
W870255		98.05	0.22	0.07	89.4	7.9	240	0.86	3.55	2.33	0.87	18.6	2.95	<5	1.2	0.78
W870256		99.73	0.15	0.35	320	7.9	300	2.99	3.60	2.16	0.85	19.7	2.93	<5	1.2	0.80
W870257		98.42	0.08	0.10	626	12.0	180	1.07	2.88	1.84	0.67	16.1	2.42	<5	1.9	0.61
W870258		98.30	0.11	0.10	146.0	12.3	240	0.64	3.66	2.30	0.79	18.8	3.14	<5	1.4	0.85
W870259		100.48	0.09	0.12	320	11.3	250	0.55	3.31	2.14	0.87	18.0	2.70	<5	1.1	0.75
W870260		99.34	0.15	0.15	310	14.5	210	0.39	3.34	2.25	0.84	18.6	2.93	<5	1.7	0.74
W870261		100.32	0.22	0.50	103.5	11.8	220	0.46	3.61	2.43	0.95	20.3	3.06	<5	1.8	0.77
W870262		101.03	0.06	0.64	151.0	10.3	260	0.93	3.81	2.31	0.95	18.1	3.09	<5	1.8	0.82
W870263		100.94	0.06	0.34	186.0	12.1	410	1.44	2.79	1.87	0.67	16.3	2.33	<5	2.4	0.63
W870264		99.21	0.08	0.07	129.0	7.5	220	0.84	2.48	1.65	0.62	15.5	2.09	<5	1.0	0.53
W870265		100.58	0.12	0.13	183.0	14.0	520	1.36	3.24	2.02	0.72	16.9	2.87	<5	2.0	0.68
W870266		100.83	0.11	0.48	116.5	13.3	190	1.13	3.48	2.35	0.83	16.7	3.06	<5	1.3	0.73
W870267		99.17	0.11	0.12	88.0	7.0	420	0.63	3.19	2.03	0.75	15.7	2.34	<5	1.0	0.68
W870268		100.36	0.19	0.13	88.3	12.1	370	0.31	3.10	2.04	0.72	14.6	2.72	<5	1.5	0.70
W870269		98.51	0.07	1.71	203	24.0	220	0.86	2.42	1.28	0.96	14.8	2.51	<5	2.1	0.46
W870270		99.98	0.10	0.09	86.0	10.5	190	0.59	3.27	2.10	0.77	16.8	2.78	<5	1.6	0.74
W870271		100.23	0.05	0.05	86.6	8.4	180	0.77	2.88	1.93	0.69	16.2	2.38	<5	1.2	0.66
W870272		99.50	0.10	0.14	63.9	4.7	210	0.30	2.82	1.79	0.68	16.2	2.16	<5	0.7	0.59
W870273		99.63	0.14	0.08	61.5	4.5	210	0.29	2.72	1.90	0.62	16.1	2.37	<5	0.7	0.61
W870274		100.38	0.08	0.10	51.1	3.9	220	0.41	2.74	1.86	0.59	15.6	2.18	<5	0.7	0.56
W870275		100.52	0.07	0.13	56.6	3.7	230	0.80	2.54	1.66	0.58	15.7	2.22	<5	0.7	0.55
W870276		98.88	0.11	0.09	58.3	4.2	230	0.88	2.78	1.73	0.64	16.7	2.13	<5	0.8	0.64
W870277		99.83	0.22	0.09	49.3	5.9	200	0.38	2.90	1.86	0.71	16.0	2.42	<5	0.9	0.59
W870278		100.20	0.08	0.07	95.5	8.4	170	0.53	3.06	1.83	0.71	16.6	2.42	<5	1.2	0.59
W870279		99.25	0.08	0.11	62.8	5.7	230	0.65	2.89	1.80	0.71	16.8	2.23	<5	1.0	0.60
W870280		99.89	0.23	0.13	123.5	9.6	210	2.07	2.71	1.65	0.74	17.4	2.48	<5	1.0	0.59
W870281		99.47	0.06	0.05	503	44.4	150	2.19	2.83	1.57	1.16	18.5	3.59	<5	3.0	0.56
W870282		98.09	0.45	0.11	115.0	9.9	310	0.64	3.16	2.05	0.79	15.4	2.69	<5	1.1	0.63
W870283		101.03	0.09	0.22	135.0	8.3	230	1.18	3.35	2.29	0.83	15.2	2.90	<5	1.2	0.75
W870284		100.40	0.18	0.02	315	34.5	120	1.35	2.09	1.19	0.87	13.4	2.68	<5	2.2	0.43
W870285		98.85	0.15	0.05	626	70.4	120	2.59	2.79	1.24	1.53	20.2	4.20	<5	3.8	0.48
W870286		101.21	0.18	0.04	723	73.1	120	3.86	2.85	1.35	1.60	20.6	4.53	<5	4.0	0.52
W870287		98.80	0.07	0.04	461	53.1	90	1.41	2.05	0.98	1.10	14.1	3.21	<5	2.7	0.38
W870288		100.78	0.07	0.06	796	71.4	120	2.98	2.73	1.36	1.58	20.1	4.54	<5	4.0	0.48

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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
W870249		13.7	0.41	3.3	18.0	4.11	27.1	4.42	1	498	0.1	0.67	3.56	0.39	1.55	149
W870250		10.1	0.21	6.4	11.1	2.59	4.9	2.55	2	65.7	0.2	0.43	1.94	0.23	1.00	171
W870251		3.1	0.37	2.6	6.8	1.31	7.1	2.31	<1	126.0	0.2	0.53	0.41	0.35	0.13	364
W870252		3.5	0.33	2.4	6.8	1.40	9.7	2.25	<1	142.5	0.2	0.52	0.72	0.33	0.16	362
W870253		2.8	0.33	2.4	6.2	1.22	14.0	2.25	1	148.5	0.2	0.52	0.14	0.35	0.05	382
W870254		3.1	0.34	2.2	6.4	1.29	11.1	2.24	<1	142.0	0.2	0.54	0.77	0.35	0.14	370
W870255		2.9	0.34	2.7	6.7	1.26	13.7	2.18	<1	119.0	0.2	0.56	0.18	0.32	0.06	377
W870256		3.3	0.36	3.1	6.7	1.26	53.5	2.07	1	110.5	<0.1	0.53	0.10	0.34	<0.05	384
W870257		5.4	0.27	2.6	7.3	1.66	24.6	2.15	4	108.5	0.1	0.46	0.88	0.27	0.25	239
W870258		5.2	0.34	2.7	9.0	1.83	14.1	2.65	1	243	<0.1	0.56	0.81	0.34	0.19	314
W870259		4.7	0.34	2.5	7.9	1.64	9.9	2.52	1	150.5	<0.1	0.50	0.27	0.30	0.09	320
W870260		6.5	0.33	2.4	9.1	2.00	14.8	2.42	1	166.5	<0.1	0.52	0.86	0.32	0.30	271
W870261		4.9	0.39	2.2	8.0	1.67	11.9	2.39	1	137.0	0.2	0.54	0.45	0.36	0.20	328
W870262		4.3	0.36	2.3	8.3	1.59	13.1	2.46	1	154.0	<0.1	0.59	0.20	0.33	0.09	359
W870263		5.7	0.27	2.3	7.4	1.64	26.2	2.16	1	113.5	<0.1	0.40	0.94	0.28	0.28	256
W870264		3.3	0.23	1.2	4.7	1.04	20.7	1.53	<1	103.5	0.1	0.36	0.73	0.25	0.17	288
W870265		6.3	0.29	2.4	8.8	1.99	27.0	2.56	1	113.5	<0.1	0.47	1.30	0.29	0.41	246
W870266		5.7	0.34	1.7	8.3	1.81	19.8	2.47	<1	114.0	0.2	0.53	2.18	0.33	0.36	290
W870267		2.6	0.29	1.8	6.0	1.13	8.0	1.84	<1	132.0	0.1	0.49	0.48	0.28	0.29	300
W870268		4.9	0.30	1.8	7.9	1.73	8.4	2.40	1	90.1	0.2	0.47	1.12	0.27	0.36	213
W870269		11.5	0.17	6.3	12.9	3.03	14.8	2.70	3	238	0.2	0.38	1.42	0.19	0.40	106
W870270		4.3	0.31	2.1	7.4	1.43	9.6	2.19	2	96.4	0.1	0.50	0.87	0.31	0.37	302
W870271		3.4	0.28	1.7	6.0	1.23	8.9	2.16	<1	119.5	0.1	0.48	0.57	0.27	0.21	308
W870272		1.7	0.26	0.9	4.3	0.75	6.6	1.57	<1	105.0	0.1	0.38	0.25	0.24	0.08	332
W870273		1.6	0.26	0.8	4.5	0.76	7.3	1.64	<1	111.0	0.1	0.41	0.15	0.27	0.06	331
W870274		1.2	0.24	0.7	4.0	0.64	4.6	1.72	1	98.1	<0.1	0.39	0.07	0.27	<0.05	339
W870275		1.2	0.25	0.8	4.0	0.64	6.5	1.51	<1	93.3	0.1	0.38	0.07	0.24	<0.05	333
W870276		1.5	0.28	1.0	4.2	0.73	7.7	1.53	<1	96.7	0.1	0.39	0.17	0.25	<0.05	352
W870277		2.4	0.27	1.2	5.2	0.93	5.6	1.84	<1	98.4	0.1	0.44	0.36	0.25	0.08	324
W870278		3.5	0.28	1.6	6.5	1.22	11.3	1.85	<1	121.0	0.1	0.42	0.93	0.24	0.25	299
W870279		2.2	0.25	1.0	5.0	0.91	6.8	1.78	<1	117.0	0.1	0.39	0.14	0.30	0.06	358
W870280		4.1	0.25	1.5	6.7	1.31	17.0	2.00	<1	150.5	0.1	0.44	0.46	0.25	0.15	326
W870281		21.8	0.21	4.3	23.5	5.74	31.3	4.70	1	465	0.2	0.54	3.68	0.23	1.00	162
W870282		4.4	0.27	1.8	6.8	1.32	12.2	1.84	1	139.5	0.1	0.47	0.53	0.29	0.20	254
W870283		3.4	0.32	2.1	6.8	1.35	14.1	2.17	1	166.0	0.1	0.50	0.40	0.33	0.13	323
W870284		16.3	0.17	3.0	17.1	4.26	19.1	3.31	1	317	0.2	0.36	2.88	0.18	0.71	132
W870285		33.5	0.19	5.5	34.3	8.60	39.1	6.12	1	676	0.4	0.51	5.77	0.19	1.46	105
W870286		34.9	0.19	5.6	34.9	8.94	53.1	6.12	1	726	0.4	0.55	6.07	0.18	1.53	107
W870287		25.6	0.15	4.2	25.1	6.44	27.4	4.70	1	444	0.3	0.39	4.70	0.14	1.13	87
W870288		34.1	0.19	5.6	34.8	8.72	47.8	6.36	1	731	0.4	0.55	6.10	0.20	1.53	107

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

Project: Gfields

CERTIFICATE OF ANALYSIS TB18037054

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
W870249		5	23.4	2.61	145	0.8	0.04	<0.005	0.008	<0.001	0.12	<0.2	<0.01	0.05	<0.5	<0.5
W870250		1	14.5	1.39	79	41.6	0.31	0.104	0.047	0.015	1.17	11.7	1.19	0.06	3.1	1.1
W870251		3	20.0	2.32	46	0.4	0.01	<0.005	0.010	0.001	<0.05	<0.2	<0.01	0.02	<0.5	0.5
W870252		1	19.6	2.21	37	0.3	0.01	<0.005	0.011	0.001	<0.05	0.2	0.01	0.03	<0.5	<0.5
W870253		1	19.5	2.24	39	0.2	0.01	<0.005	0.011	0.001	<0.05	0.2	0.01	0.02	<0.5	0.5
W870254		2	19.5	2.21	42	0.3	0.02	<0.005	0.012	0.001	<0.05	0.2	0.01	<0.02	<0.5	<0.5
W870255		4	20.1	2.21	41	0.6	0.01	<0.005	0.010	0.002	<0.05	0.3	0.01	0.02	<0.5	0.5
W870256		1	19.9	2.13	42	0.9	0.01	<0.005	0.017	0.002	<0.05	0.5	0.04	0.13	<0.5	0.9
W870257		<1	16.0	1.70	67	0.7	0.01	<0.005	0.011	0.001	<0.05	<0.2	<0.01	0.06	<0.5	0.5
W870258		1	21.0	2.23	51	0.6	0.01	<0.005	0.012	0.001	<0.05	0.2	0.01	0.05	0.6	<0.5
W870259		1	19.0	2.04	36	0.4	0.01	<0.005	0.012	<0.001	<0.05	0.4	0.01	0.05	<0.5	<0.5
W870260		1	19.1	1.93	59	1.0	0.02	<0.005	0.011	0.001	<0.05	0.3	0.01	0.04	<0.5	<0.5
W870261		3	21.6	2.40	66	0.8	0.03	<0.005	0.017	0.001	<0.05	0.8	0.04	0.05	<0.5	0.6
W870262		<1	20.6	2.19	68	0.6	0.02	<0.005	0.017	0.001	<0.05	1.0	0.04	0.08	<0.5	0.5
W870263		1	16.1	1.75	95	0.5	0.02	<0.005	0.011	0.001	<0.05	0.4	0.02	0.13	<0.5	<0.5
W870264		1	14.1	1.52	36	2.0	0.01	<0.005	0.008	<0.001	<0.05	0.2	0.02	0.05	<0.5	0.5
W870265		<1	18.5	1.93	77	1.3	0.02	<0.005	0.012	<0.001	<0.05	0.4	0.02	0.10	<0.5	0.5
W870266		1	20.3	2.13	44	0.9	0.02	<0.005	0.013	0.002	<0.05	1.0	0.05	0.10	<0.5	<0.5
W870267		<1	17.6	2.10	31	0.3	0.05	<0.005	0.013	0.001	<0.05	0.4	0.10	0.03	<0.5	0.5
W870268		1	19.1	2.10	56	0.4	0.09	<0.005	0.010	<0.001	<0.05	0.3	0.07	<0.02	<0.5	0.6
W870269		3	12.0	1.13	86	3.6	0.82	0.009	0.060	0.006	0.30	5.1	0.45	0.10	2.0	0.9
W870270		2	19.2	1.99	61	0.6	0.03	<0.005	0.013	0.001	<0.05	0.3	0.04	0.02	<0.5	0.7
W870271		<1	17.3	2.08	46	0.4	0.03	<0.005	0.012	0.001	<0.05	<0.2	0.01	0.03	<0.5	0.8
W870272		1	15.8	1.81	21	0.2	0.06	<0.005	0.013	0.001	<0.05	0.6	0.10	<0.02	<0.5	0.9
W870273		<1	16.2	1.82	22	0.3	0.03	<0.005	0.009	0.001	<0.05	0.4	0.04	<0.02	<0.5	0.7
W870274		1	15.4	1.64	21	0.2	0.02	<0.005	0.011	<0.001	<0.05	0.3	0.02	<0.02	<0.5	1.0
W870275		<1	14.7	1.73	17	0.4	0.02	<0.005	0.012	0.001	<0.05	0.3	0.04	0.02	<0.5	0.7
W870276		<1	15.3	1.79	22	0.2	0.02	<0.005	0.012	0.001	<0.05	0.4	0.02	0.02	<0.5	0.9
W870277		1	16.5	1.90	31	0.3	0.01	<0.005	0.010	<0.001	<0.05	0.2	0.02	<0.02	<0.5	0.8
W870278		<1	16.5	1.92	45	0.5	0.02	<0.005	0.011	0.001	<0.05	0.2	0.01	0.02	<0.5	0.6
W870279		2	16.3	1.89	32	0.3	0.02	<0.005	0.011	0.001	<0.05	0.2	0.02	0.02	<0.5	1.0
W870280		<1	15.6	1.83	37	0.6	0.04	<0.005	0.013	0.001	<0.05	0.3	0.03	0.05	<0.5	0.7
W870281		1	15.1	1.33	112	0.3	0.03	<0.005	0.010	0.001	<0.05	<0.2	0.04	0.11	<0.5	<0.5
W870282		2	18.2	1.81	39	0.2	0.06	0.006	0.009	<0.001	<0.05	0.3	0.06	0.02	<0.5	0.7
W870283		1	19.7	2.11	38	0.3	0.05	<0.005	0.013	0.001	<0.05	0.5	0.05	0.03	<0.5	0.8
W870284		1	11.0	1.11	79	0.1	0.02	<0.005	0.009	<0.001	<0.05	0.2	<0.01	0.05	<0.5	0.5
W870285		1	13.5	1.20	142	0.2	0.03	<0.005	0.009	<0.001	<0.05	<0.2	<0.01	0.13	<0.5	<0.5
W870286		1	13.9	1.14	150	0.3	0.03	0.005	0.010	<0.001	<0.05	<0.2	<0.01	0.18	<0.5	<0.5
W870287		<1	10.4	0.91	101	0.3	0.02	<0.005	0.008	<0.001	<0.05	<0.2	0.01	0.08	<0.5	<0.5
W870288		<1	13.8	1.17	150	0.1	0.03	<0.005	0.010	<0.001	<0.05	<0.2	0.01	0.15	<0.5	<0.5

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

Finalized Date: 8-MAR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18037054

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
W870249		14	99	10	2	8	<2	17	58	<0.001	<0.005	0.005	0.025
W870250		154	5680	40	2	2160	<2	25	77	0.110	0.707	0.374	11.05
W870251		53	72	10	<1	116	<2	43	104	<0.001	<0.005	<0.001	0.197
W870252		52	125	10	1	112	<2	42	99	<0.001	<0.005	0.002	0.311
W870253		56	74	20	1	129	<2	45	131	<0.001	<0.005	<0.001	0.189
W870254		51	65	20	<1	116	<2	43	100	<0.001	<0.005	0.001	0.181
W870255		55	93	20	<1	118	<2	46	100	<0.001	<0.005	0.001	0.211
W870256		56	177	50	<1	124	8	50	160	<0.001	<0.005	0.001	0.540
W870257		37	70	20	<1	80	<2	32	78	<0.001	<0.005	0.001	0.184
W870258		46	89	20	<1	100	<2	41	90	<0.001	<0.005	0.002	0.273
W870259		48	99	10	<1	102	<2	38	96	<0.001	<0.005	0.001	0.247
W870260		44	109	10	<1	89	<2	36	103	<0.001	<0.005	<0.001	0.341
W870261		51	368	10	<1	103	<2	39	127	<0.001	<0.005	0.001	0.810
W870262		53	282	10	<1	109	<2	44	104	<0.001	<0.005	0.001	0.869
W870263		44	206	20	<1	142	<2	32	92	0.001	0.009	0.009	0.515
W870264		48	114	20	<1	137	<2	34	85	0.003	0.022	0.027	0.255
W870265		46	158	20	<1	161	<2	33	90	0.002	0.005	0.008	0.284
W870266		55	392	10	<1	113	<2	35	110	<0.001	<0.005	0.028	0.893
W870267		55	285	20	<1	192	<2	42	111	0.009	0.060	0.106	0.359
W870268		46	431	20	<1	143	<2	32	92	0.014	0.034	0.071	0.406
W870269		117	4570	20	4	4440	18	12	102	0.063	0.280	0.624	4.34
W870270		47	265	20	1	115	3	41	96	0.010	0.019	0.042	0.334
W870271		48	151	10	1	94	2	35	105	0.002	0.017	0.021	0.159
W870272		56	449	10	<1	158	3	43	110	0.014	0.042	0.134	0.519
W870273		50	293	10	<1	117	<2	40	106	0.004	0.028	0.054	0.333
W870274		55	215	10	<1	116	<2	39	110	0.002	0.022	0.029	0.342
W870275		53	219	20	<1	116	2	45	104	0.002	0.021	0.028	0.366
W870276		55	194	20	<1	116	5	42	115	0.002	0.023	0.029	0.287
W870277		52	152	10	<1	104	3	43	113	0.001	0.018	0.024	0.235
W870278		44	129	20	<1	90	2	41	101	0.001	0.017	0.022	0.214
W870279		48	170	10	<1	101	<2	47	109	<0.001	0.026	0.029	0.276
W870280		48	177	20	<1	100	7	41	110	0.001	0.018	0.026	0.394
W870281		31	138	20	<1	90	5	23	91	0.002	0.013	0.033	0.105
W870282		47	262	20	<1	129	7	35	125	0.004	<0.005	0.047	0.277
W870283		53	383	20	<1	127	6	39	123	0.010	<0.005	0.022	0.561
W870284		22	32	20	<1	57	4	15	64	<0.001	<0.005	0.001	0.020
W870285		21	37	30	<1	68	8	11	85	<0.001	<0.005	0.001	0.017
W870286		22	45	30	<1	69	10	12	89	<0.001	<0.005	0.002	0.018
W870287		20	32	20	<1	52	5	10	65	0.001	<0.005	0.001	0.023
W870288		22	54	30	<1	66	8	11	87	<0.001	<0.005	<0.001	0.070

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

Finalized Date: 8-MAR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18037054

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
W870289		0.04	63.1	16.65	6.04	6.23	2.76	3.30	1.52	<0.01	0.49	0.12	0.15	0.06	0.07	1.15
W870290		2.32	61.9	15.45	6.18	5.59	3.70	4.23	2.00	0.02	0.59	0.10	0.21	0.08	0.09	0.90
W870291		2.13	59.7	15.30	7.06	6.26	4.15	3.97	1.62	0.02	0.64	0.11	0.20	0.08	0.07	1.13
W870292		2.48	59.5	15.00	7.26	5.94	4.21	3.93	1.71	0.02	0.64	0.12	0.21	0.07	0.07	0.97
W870293		2.14	62.1	15.40	6.23	5.59	3.67	4.33	2.08	0.02	0.60	0.11	0.23	0.09	0.09	0.75
W870294		2.26	61.8	15.55	6.28	5.67	3.70	4.26	2.01	0.02	0.59	0.10	0.22	0.08	0.09	0.66
W870295		1.81	60.5	15.15	6.16	5.51	3.62	4.18	1.82	0.02	0.58	0.10	0.23	0.08	0.08	0.71
W870296		1.80	57.0	14.45	9.62	6.70	4.25	3.54	1.32	0.02	0.75	0.17	0.17	0.06	0.06	0.84
W870297		2.66	48.8	15.10	13.50	11.85	5.45	2.69	0.26	0.03	0.90	0.25	0.07	0.01	0.01	1.18
W870298		2.85	49.6	15.50	14.05	10.65	5.88	3.17	0.22	0.04	0.96	0.27	0.04	0.01	0.01	0.84
W870299		2.46	49.8	15.55	13.80	11.15	5.57	2.92	0.16	0.03	0.94	0.27	0.05	0.01	<0.01	0.67
W870300		2.41	48.3	14.95	13.40	11.90	5.80	2.63	0.21	0.03	0.87	0.25	0.06	0.01	0.01	1.07
W870301		2.37	48.0	15.00	13.20	10.95	5.96	2.91	0.26	0.03	0.86	0.23	0.06	0.01	0.01	1.20
W870302		2.43	49.1	15.40	14.40	9.36	7.07	3.18	0.30	0.04	0.92	0.25	0.07	0.01	0.01	0.88
W870303		2.42	48.1	15.30	13.85	11.40	6.01	2.52	0.33	0.03	1.07	0.24	0.07	0.01	0.01	1.12
W870304		2.54	49.5	15.80	13.00	10.45	6.05	3.00	0.31	0.04	0.93	0.22	0.06	0.01	0.01	1.30
W870305		2.54	48.9	15.25	12.25	10.80	5.47	2.90	0.23	0.03	0.90	0.21	0.06	0.02	0.01	1.05
W870306		2.41	48.2	15.65	12.50	12.00	5.47	2.66	0.21	0.05	0.89	0.21	0.07	0.01	0.01	1.54
W870307		2.21	48.7	14.90	14.20	9.36	7.64	2.94	0.18	0.03	0.87	0.22	0.06	0.01	0.01	1.12
W870308		2.56	49.0	15.10	12.90	9.81	6.44	2.89	0.24	0.03	0.92	0.22	0.05	0.01	0.01	0.90
W870309		0.08	41.8	8.91	14.90	15.60	10.60	0.61	0.23	0.11	0.70	0.15	0.10	<0.01	0.03	4.03
W870310		2.63	45.8	16.50	13.90	13.70	5.63	1.14	0.48	0.04	0.95	0.21	0.06	<0.01	0.01	1.18
W870311		2.61	46.5	14.50	13.85	14.25	6.22	1.11	0.42	0.03	0.95	0.22	0.07	<0.01	0.01	1.36
W870312		2.64	48.1	14.95	14.60	13.40	5.99	1.76	0.18	0.04	1.00	0.23	0.09	0.01	<0.01	0.84
W870313		2.95	47.9	14.40	12.70	14.95	6.13	1.06	0.28	0.04	0.91	0.24	0.08	0.01	0.01	1.31
W870314		2.57	48.7	14.65	13.25	15.25	5.06	1.03	0.18	0.04	1.01	0.25	0.07	0.01	0.01	1.13
W870315		2.56	46.3	14.45	13.90	14.75	5.77	0.91	0.15	0.03	0.97	0.22	0.09	<0.01	<0.01	1.08
W870316		2.56	48.1	14.15	14.55	13.20	7.19	1.05	0.16	0.03	0.99	0.23	0.07	<0.01	<0.01	0.75
W870317		2.50	47.6	14.65	13.90	12.15	6.52	1.82	0.21	0.03	0.91	0.23	0.07	0.01	<0.01	1.28
W870318		2.32	50.5	14.65	13.05	10.70	6.22	3.21	0.18	0.04	0.91	0.22	0.07	0.02	<0.01	1.23
W870319		2.38	49.9	14.85	12.85	10.85	5.53	3.34	0.17	0.05	0.91	0.21	0.06	0.01	0.01	0.99
W870320		2.16	50.6	14.10	13.20	9.17	7.51	2.98	0.21	0.04	0.88	0.22	0.07	0.01	0.01	1.03
W870321		2.52	47.1	14.40	13.80	12.10	6.88	1.56	0.40	0.04	0.90	0.23	0.06	0.01	0.01	2.00
W870322		2.61	48.0	14.30	12.75	14.10	6.58	0.72	0.28	0.04	0.91	0.25	0.09	0.01	<0.01	1.40
W870323		2.46	47.2	15.40	13.55	13.35	6.06	1.07	0.44	0.04	0.92	0.23	0.07	0.01	0.01	1.66
W870324		2.45	49.6	14.65	14.05	11.35	5.82	2.41	0.25	0.04	0.90	0.21	0.08	0.01	0.01	0.90
W870325		2.30	49.3	15.10	13.20	11.95	6.09	2.25	0.23	0.06	0.95	0.24	0.07	0.01	<0.01	1.01
W870326		0.09	47.6	12.90	20.8	6.35	6.72	2.11	0.61	0.03	1.22	0.19	0.14	0.03	0.02	1.19

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

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

Finalized Date: 8-MAR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18037054

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
W870289		101.64	0.03	0.01	609	30.3	10	0.75	3.95	2.66	1.04	16.5	4.03	<5	4.2	0.87
W870290		101.04	0.10	0.05	795	74.9	130	3.02	2.82	1.35	1.63	20.3	4.67	<5	4.0	0.51
W870291		100.31	0.15	0.09	635	71.1	140	3.31	2.98	1.45	1.59	19.8	4.45	<5	3.7	0.54
W870292		99.65	0.05	0.06	654	63.2	140	2.73	3.02	1.47	1.52	19.8	4.39	<5	3.7	0.54
W870293		101.29	0.08	0.06	765	72.8	120	2.81	2.75	1.28	1.57	19.4	4.47	<5	3.9	0.50
W870294		101.03	0.05	0.03	833	74.9	130	2.61	2.87	1.31	1.61	20.6	4.44	<5	4.1	0.51
W870295		98.74	0.05	0.01	752	75.5	120	2.54	2.75	1.26	1.61	20.0	4.35	<5	3.9	0.50
W870296		98.95	0.06	0.12	519	50.9	120	2.05	3.02	1.64	1.34	19.5	3.82	<5	3.4	0.59
W870297		100.10	0.17	0.14	60.7	7.4	250	0.37	3.26	2.10	0.77	16.8	2.80	<5	1.3	0.77
W870298		101.24	0.08	0.07	75.3	7.1	250	0.20	3.46	2.15	0.79	16.2	2.62	<5	1.4	0.71
W870299		100.92	0.07	0.06	34.0	7.0	230	0.17	3.13	2.09	0.69	15.5	2.57	<5	1.4	0.69
W870300		99.49	0.11	0.05	60.3	7.5	240	0.33	3.36	2.17	0.73	17.4	2.70	<5	1.4	0.70
W870301		98.68	0.13	0.10	77.5	7.3	230	0.44	3.15	2.02	0.75	16.7	2.62	<5	1.4	0.70
W870302		100.99	0.06	0.13	94.5	7.7	270	0.54	3.41	2.24	0.77	16.9	2.82	<5	1.5	0.75
W870303		100.06	0.10	0.21	83.6	8.2	250	0.49	3.51	2.25	0.81	16.8	2.91	<5	1.3	0.75
W870304		100.68	0.10	0.13	67.1	7.1	290	0.41	3.35	2.20	0.73	16.9	2.66	<5	1.2	0.71
W870305		98.08	0.14	0.11	55.5	6.5	250	0.29	3.02	2.01	0.73	16.1	2.50	<5	1.1	0.68
W870306		99.47	0.22	0.19	51.6	7.4	410	0.30	3.17	2.12	0.84	17.6	2.81	<5	1.4	0.72
W870307		100.24	0.08	0.12	50.5	7.6	240	0.29	3.20	2.16	0.71	16.3	2.55	<5	1.5	0.70
W870308		98.52	0.06	0.11	47.2	7.1	250	0.29	3.28	2.15	0.70	16.5	2.66	<5	1.3	0.73
W870309		97.77	0.24	2.57	280	19.7	770	0.42	2.54	1.44	0.72	10.7	2.54	<5	2.0	0.49
W870310		99.60	0.09	0.15	103.5	8.8	280	1.22	3.46	2.31	0.84	17.9	2.98	<5	1.5	0.73
W870311		99.49	0.10	0.10	79.5	11.5	220	0.97	3.80	2.35	0.89	16.9	3.22	<5	1.5	0.80
W870312		101.19	0.12	0.11	38.9	8.5	320	0.48	3.59	2.29	0.83	17.6	2.98	<5	1.4	0.76
W870313		100.02	0.17	0.17	62.2	8.0	270	0.68	3.26	2.15	0.81	16.6	2.55	<5	1.4	0.69
W870314		100.64	0.10	0.17	42.3	7.9	280	0.65	3.36	2.14	0.80	16.7	2.71	<5	1.5	0.72
W870315		98.62	0.13	0.09	29.2	8.5	230	0.56	3.74	2.30	0.84	16.7	2.94	<5	1.5	0.78
W870316		100.47	0.11	0.05	24.3	8.1	220	0.49	3.81	2.46	0.81	16.4	2.98	<5	1.4	0.83
W870317		99.38	0.15	0.10	42.1	8.4	250	0.78	3.55	2.21	0.81	17.1	2.82	<5	1.5	0.76
W870318		101.00	0.19	0.08	38.4	8.3	260	0.25	3.32	2.23	0.75	16.6	2.97	<5	1.5	0.71
W870319		99.73	0.20	0.13	45.9	8.5	360	0.44	3.45	2.36	0.72	17.2	2.87	<5	1.6	0.71
W870320		100.03	0.08	0.11	45.4	8.1	260	0.50	3.28	2.30	0.70	16.5	2.84	<5	1.4	0.72
W870321		99.49	0.22	0.10	51.3	6.5	240	0.83	2.84	1.92	0.61	14.0	2.50	<5	1.1	0.60
W870322		99.43	0.14	0.13	40.0	7.1	290	0.99	3.16	2.22	0.75	16.5	2.73	<5	1.2	0.69
W870323		100.01	0.15	0.20	60.7	6.4	230	1.39	2.32	1.64	0.64	16.1	1.85	<5	0.9	0.53
W870324		100.28	0.14	0.13	52.2	9.5	260	0.47	3.28	2.35	0.75	17.2	2.93	<5	1.8	0.72
W870325		100.46	0.16	0.12	40.2	7.9	390	0.60	3.29	2.27	0.77	16.8	2.81	<5	1.5	0.70
W870326		99.91	0.07	1.71	219	26.1	240	0.99	2.65	1.47	1.14	16.7	2.87	<5	2.5	0.49

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

Finalized Date: 8-MAR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18037054

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
W870289		13.7	0.44	3.3	17.9	4.07	27.9	4.11	1	508	0.2	0.61	3.08	0.40	1.47	174
W870290		35.4	0.19	5.8	36.2	9.17	54.9	6.71	1	741	0.4	0.54	6.22	0.20	1.59	107
W870291		34.3	0.20	5.3	34.0	8.69	51.9	6.30	1	709	0.4	0.55	5.57	0.20	1.39	128
W870292		29.4	0.20	5.6	31.0	7.87	48.6	5.99	1	657	0.4	0.52	5.69	0.20	1.37	141
W870293		34.7	0.17	5.6	34.9	8.88	55.1	6.52	1	724	0.3	0.52	6.04	0.18	1.50	102
W870294		35.9	0.19	5.7	35.9	9.10	52.9	6.64	1	743	0.4	0.56	6.16	0.19	1.51	110
W870295		35.8	0.18	5.7	35.0	9.02	46.8	6.46	1	728	0.4	0.54	6.11	0.18	1.48	106
W870296		23.7	0.25	5.1	25.1	6.32	38.1	5.09	1	511	0.4	0.52	4.43	0.24	1.16	209
W870297		2.6	0.33	2.1	6.1	1.20	5.1	2.13	1	103.0	0.1	0.50	0.13	0.33	0.05	331
W870298		2.5	0.34	2.1	6.2	1.17	3.2	2.11	1	120.5	0.1	0.50	0.08	0.34	<0.05	330
W870299		2.5	0.31	2.0	5.9	1.14	1.9	1.87	1	74.0	0.1	0.45	0.11	0.33	<0.05	312
W870300		2.7	0.34	2.1	6.1	1.22	3.9	2.11	1	109.5	0.1	0.48	0.12	0.35	<0.05	319
W870301		2.7	0.33	2.0	6.1	1.19	5.6	1.92	1	107.0	0.1	0.48	0.16	0.30	<0.05	311
W870302		2.7	0.35	2.2	6.5	1.22	5.2	2.13	1	113.0	0.1	0.51	0.10	0.34	<0.05	339
W870303		3.0	0.37	2.6	6.8	1.27	5.8	2.18	<1	106.0	0.1	0.52	0.13	0.34	0.05	350
W870304		2.6	0.32	2.1	6.0	1.13	6.1	2.05	1	150.5	0.1	0.47	0.11	0.33	<0.05	337
W870305		2.4	0.30	1.9	5.5	1.03	4.7	1.89	1	149.5	0.1	0.45	0.09	0.30	<0.05	322
W870306		2.8	0.34	2.1	5.8	1.15	4.7	1.96	1	159.0	0.1	0.47	0.12	0.32	<0.05	322
W870307		2.8	0.32	2.1	6.1	1.20	2.9	2.12	<1	144.5	0.1	0.46	0.15	0.33	<0.05	312
W870308		2.6	0.34	2.1	6.1	1.16	3.0	1.98	<1	123.0	0.1	0.49	0.07	0.33	<0.05	324
W870309		9.6	0.22	5.8	10.4	2.49	4.7	2.67	2	64.1	0.3	0.41	1.93	0.21	0.94	191
W870310		3.2	0.34	2.6	7.2	1.39	13.9	2.25	<1	86.4	0.1	0.51	0.14	0.33	0.05	337
W870311		4.7	0.36	2.9	8.4	1.69	12.2	2.61	<1	82.1	0.1	0.55	0.67	0.35	0.06	345
W870312		3.3	0.36	2.6	6.7	1.34	3.1	2.29	<1	87.9	0.1	0.52	0.14	0.38	0.06	360
W870313		3.0	0.33	2.4	6.1	1.25	8.6	1.91	<1	78.4	0.1	0.47	0.24	0.32	0.06	338
W870314		3.0	0.33	2.7	6.3	1.27	5.4	1.98	<1	81.2	0.1	0.47	0.20	0.33	0.07	329
W870315		3.1	0.35	2.9	7.0	1.32	4.1	2.28	<1	80.6	0.2	0.54	0.15	0.35	0.09	333
W870316		2.9	0.35	2.7	7.1	1.34	3.9	2.38	<1	82.3	0.1	0.54	0.13	0.33	<0.05	344
W870317		3.1	0.35	2.4	6.8	1.34	5.3	2.17	<1	84.1	0.1	0.51	0.18	0.34	<0.05	332
W870318		3.4	0.33	2.3	6.5	1.34	2.5	2.06	2	124.5	0.1	0.52	0.38	0.30	0.28	314
W870319		3.3	0.32	2.4	6.4	1.41	3.1	2.03	2	114.5	0.1	0.50	0.30	0.31	0.09	311
W870320		3.2	0.32	2.2	6.2	1.35	3.2	2.06	1	114.5	0.1	0.53	0.23	0.32	0.12	307
W870321		2.6	0.28	2.0	5.4	1.09	12.0	1.77	<1	57.3	0.1	0.43	0.15	0.26	0.12	260
W870322		2.8	0.30	2.7	5.9	1.18	10.5	1.91	<1	60.9	0.1	0.48	0.27	0.30	0.47	327
W870323		2.8	0.24	2.4	4.3	0.94	14.5	1.36	<1	64.3	0.1	0.36	0.56	0.24	0.29	305
W870324		4.1	0.34	2.6	6.4	1.52	4.4	2.13	<1	106.0	0.1	0.51	0.50	0.32	0.15	303
W870325		3.1	0.33	2.4	6.1	1.30	5.5	2.04	1	90.8	0.1	0.50	0.20	0.32	0.09	321
W870326		12.6	0.17	6.8	13.1	3.49	15.7	2.98	4	271	0.4	0.45	1.57	0.18	0.50	121

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

Finalized Date: 8-MAR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18037054

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
W870289		6	24.1	2.71	138	0.8	0.05	0.009	0.009	<0.001	0.11	<0.2	<0.01	0.05	<0.5	<0.5
W870290		<1	14.2	1.20	148	0.2	0.03	<0.005	0.009	<0.001	<0.05	<0.2	<0.01	0.21	<0.5	<0.5
W870291		<1	14.7	1.31	142	0.2	0.02	<0.005	0.009	<0.001	<0.05	<0.2	<0.01	0.17	<0.5	<0.5
W870292		1	14.9	1.28	133	0.2	0.03	<0.005	0.009	<0.001	<0.05	<0.2	0.01	0.16	<0.5	<0.5
W870293		<1	13.9	1.09	146	0.2	0.03	<0.005	0.011	<0.001	<0.05	<0.2	<0.01	0.21	<0.5	<0.5
W870294		1	14.1	1.21	147	0.3	0.04	<0.005	0.009	<0.001	<0.05	<0.2	<0.01	0.16	<0.5	<0.5
W870295		<1	13.6	1.09	142	0.2	0.03	<0.005	0.011	<0.001	<0.05	<0.2	<0.01	0.16	<0.5	<0.5
W870296		<1	15.2	1.57	117	0.3	0.03	0.005	0.014	<0.001	<0.05	<0.2	0.01	0.12	<0.5	<0.5
W870297		<1	19.4	2.12	41	0.4	0.02	<0.005	0.012	<0.001	<0.05	0.3	0.03	<0.02	<0.5	0.6
W870298		2	19.3	2.17	42	0.2	0.01	<0.005	0.013	0.001	<0.05	0.2	0.03	<0.02	<0.5	0.6
W870299		<1	18.3	1.93	42	0.2	0.01	<0.005	0.013	0.001	<0.05	0.2	0.03	<0.02	<0.5	0.6
W870300		<1	19.6	2.15	44	0.2	0.01	<0.005	0.010	<0.001	<0.05	<0.2	0.03	<0.02	<0.5	<0.5
W870301		1	18.5	2.04	47	0.1	0.01	<0.005	0.010	0.001	<0.05	0.2	0.04	<0.02	<0.5	0.5
W870302		<1	20.0	2.23	44	0.1	0.01	<0.005	0.013	0.001	<0.05	0.2	0.03	0.03	<0.5	0.6
W870303		<1	20.0	2.29	45	0.2	0.02	<0.005	0.012	0.001	<0.05	0.4	0.03	0.02	<0.5	0.7
W870304		<1	19.3	2.02	40	0.1	0.01	<0.005	0.011	0.001	<0.05	0.3	0.01	<0.02	<0.5	0.6
W870305		1	17.7	1.97	34	0.1	0.01	0.005	0.009	0.001	<0.05	0.2	0.01	<0.02	<0.5	0.6
W870306		1	19.5	2.12	44	0.5	0.01	<0.005	0.010	<0.001	<0.05	0.3	0.02	0.02	<0.5	0.6
W870307		<1	19.2	2.00	48	0.2	0.01	0.005	0.011	0.001	<0.05	0.5	0.02	<0.02	<0.5	0.6
W870308		<1	19.2	2.10	40	0.3	0.01	<0.005	0.010	<0.001	<0.05	0.2	0.02	<0.02	<0.5	<0.5
W870309		3	14.1	1.40	75	40.9	0.31	0.134	0.051	0.015	1.25	11.8	1.52	0.06	2.3	1.5
W870310		<1	20.0	2.20	48	0.4	0.01	0.006	0.010	0.001	<0.05	0.5	0.05	0.04	<0.5	0.5
W870311		1	21.0	2.27	46	0.3	0.01	<0.005	0.006	<0.001	<0.05	0.4	0.01	0.02	<0.5	<0.5
W870312		<1	20.7	2.32	47	0.3	0.01	<0.005	0.010	<0.001	<0.05	<0.2	0.02	0.02	<0.5	0.7
W870313		7	18.6	2.05	46	0.4	0.01	0.006	0.008	0.001	<0.05	0.3	0.02	0.03	<0.5	0.5
W870314		7	19.0	2.06	49	0.4	0.01	0.005	0.007	<0.001	<0.05	0.4	0.02	0.02	<0.5	0.6
W870315		6	20.8	2.24	50	0.4	0.01	0.006	0.007	<0.001	<0.05	0.2	0.02	0.02	<0.5	0.6
W870316		<1	21.5	2.29	46	0.4	0.01	<0.005	0.007	0.001	<0.05	<0.2	<0.01	<0.02	<0.5	<0.5
W870317		1	20.2	2.28	47	0.6	0.01	<0.005	0.011	0.001	<0.05	0.3	0.01	0.02	<0.5	0.6
W870318		<1	18.9	2.25	50	0.3	0.01	<0.005	0.012	<0.001	<0.05	0.3	<0.01	<0.02	<0.5	0.5
W870319		1	18.6	2.18	57	0.4	0.01	<0.005	0.013	0.001	<0.05	0.4	0.01	<0.02	<0.5	<0.5
W870320		<1	18.7	2.20	47	0.3	0.02	<0.005	0.013	0.001	<0.05	0.4	<0.01	0.02	<0.5	<0.5
W870321		1	15.7	1.78	37	2.1	0.02	<0.005	0.010	0.001	<0.05	0.2	0.01	0.02	<0.5	0.8
W870322		7	17.7	2.03	41	2.0	0.04	<0.005	0.006	0.001	<0.05	0.4	<0.01	0.03	<0.5	<0.5
W870323		2	13.2	1.68	31	0.7	0.06	<0.005	0.008	0.002	<0.05	0.4	0.02	0.03	<0.5	0.6
W870324		1	18.6	2.20	64	0.4	0.03	<0.005	0.012	0.001	<0.05	0.4	0.02	0.02	<0.5	<0.5
W870325		<1	18.4	2.18	48	1.1	0.02	<0.005	0.010	0.001	<0.05	0.4	<0.01	0.02	<0.5	<0.5
W870326		3	13.1	1.30	99	5.1	0.73	0.011	0.064	0.005	0.32	4.9	0.47	0.09	1.8	1.1

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

ALS Canada Ltd.

2103 Dollarton Hwy
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Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

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

Finalized Date: 8-MAR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18037054

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
W870289		13	92	10	3	7	10	16	61	0.004	<0.005	0.005	0.024
W870290		21	28	30	<1	67	10	12	86	<0.001	<0.005	0.001	0.019
W870291		24	42	30	<1	70	9	14	88	<0.001	<0.005	0.001	0.035
W870292		26	27	40	<1	74	10	16	86	<0.001	<0.005	0.001	0.046
W870293		21	34	40	<1	66	14	12	87	<0.001	<0.005	0.001	0.034
W870294		21	24	30	<1	67	10	12	83	<0.001	<0.005	0.001	0.015
W870295		22	24	20	<1	67	8	11	86	<0.001	<0.005	0.001	0.014
W870296		36	76	20	<1	77	7	22	102	<0.001	<0.005	0.001	0.205
W870297		58	132	20	<1	132	<2	41	103	<0.001	<0.005	0.005	0.455
W870298		58	117	20	1	137	<2	40	102	<0.001	0.005	0.005	0.272
W870299		57	103	10	<1	128	3	40	100	<0.001	<0.005	0.005	0.222
W870300		57	146	20	<1	131	2	39	95	<0.001	<0.005	0.004	0.225
W870301		57	175	20	<1	129	3	40	94	<0.001	0.005	0.004	0.319
W870302		62	171	30	<1	140	2	39	103	<0.001	0.005	0.004	0.422
W870303		61	199	20	<1	137	2	45	127	<0.001	<0.005	0.003	0.452
W870304		61	154	20	<1	147	4	43	114	<0.001	0.005	0.004	0.387
W870305		59	130	10	<1	139	2	42	111	<0.001	0.006	0.003	0.325
W870306		59	187	20	<1	150	5	38	110	<0.001	0.006	0.004	0.496
W870307		52	138	10	<1	118	5	26	102	<0.001	0.005	0.005	0.433
W870308		56	114	10	<1	130	5	35	103	0.003	0.006	0.004	0.346
W870309		145	5450	40	2	2110	9	24	77	0.108	0.723	0.374	11.00
W870310		58	197	20	<1	163	<2	42	105	0.007	0.009	0.019	0.396
W870311		53	132	20	<1	111	<2	43	102	<0.001	0.010	0.011	0.270
W870312		55	159	10	<1	110	<2	42	110	0.001	0.005	0.002	0.243
W870313		45	156	20	<1	106	2	42	86	<0.001	0.005	0.005	0.377
W870314		49	153	20	<1	105	<2	43	100	<0.001	0.006	0.007	0.368
W870315		54	124	10	<1	106	4	40	99	0.001	0.010	0.010	0.234
W870316		59	88	10	<1	107	<2	46	117	0.001	0.010	0.011	0.097
W870317		53	153	20	<1	115	<2	43	111	0.001	0.006	0.009	0.226
W870318		51	124	10	<1	104	<2	43	106	<0.001	<0.005	0.001	0.183
W870319		52	149	10	<1	118	2	45	100	<0.001	<0.005	0.001	0.312
W870320		53	162	20	<1	104	4	43	101	<0.001	<0.005	<0.001	0.258
W870321		56	108	20	<1	121	6	44	112	<0.001	<0.005	<0.001	0.248
W870322		54	120	20	<1	105	6	46	113	<0.001	<0.005	0.001	0.276
W870323		55	163	20	<1	131	8	46	110	<0.001	0.011	0.008	0.425
W870324		52	160	10	<1	96	3	42	102	<0.001	<0.005	0.001	0.388
W870325		53	146	10	<1	120	<2	40	101	0.001	<0.005	0.001	0.360
W870326		112	4530	20	4	4400	24	12	102	0.067	0.326	0.596	4.55

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

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Finalized Date: 8-MAR-2018
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CERTIFICATE OF ANALYSIS TB18037054

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		