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: 5-FEB-2018
Account: NAPEHZEU

CERTIFICATE TB18012298

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-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 TB18012298

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
W443391		0.85	15.85	0.09	0.21	25.0	19.70	0.04	0.02	<0.01	<0.01	0.05	<0.01	0.01	0.01	30.3
W443392		0.04	42.1	8.98	15.15	15.75	10.65	0.58	0.23	0.10	0.69	0.14	0.11	<0.01	0.03	4.35
W443393		2.38	51.0	14.80	13.50	10.70	7.12	2.27	0.50	0.03	0.82	0.22	0.05	0.02	0.01	0.93
W443394		1.56	50.8	13.55	13.45	9.75	7.11	2.14	1.26	0.03	0.82	0.21	0.06	0.02	0.03	1.85
W443395		2.53	58.9	15.75	5.92	6.74	3.58	4.40	1.10	0.01	0.55	0.09	0.26	0.11	0.07	2.13
W443396		2.69	49.9	13.95	13.20	10.25	7.46	2.12	0.49	0.04	0.77	0.21	0.06	0.01	0.01	1.16
W443397		2.32	49.8	14.20	13.50	10.35	7.34	1.97	0.51	0.03	0.81	0.22	0.05	0.01	0.01	1.50
W443398		2.29	49.1	14.65	13.45	10.50	7.10	2.02	0.52	0.04	0.79	0.21	0.06	0.01	0.01	1.37
W443399		2.45	49.5	15.00	13.40	10.85	7.15	2.38	0.35	0.04	0.78	0.21	0.04	0.01	0.01	1.62
W443400		2.37	50.0	13.70	12.95	11.80	6.63	1.65	0.35	0.03	0.73	0.20	0.04	0.01	0.01	1.66
W443401		2.52	49.1	14.30	13.50	10.30	7.05	2.13	0.38	0.03	0.83	0.21	0.05	0.01	0.01	1.13
W443402		2.37	49.4	14.75	14.15	9.46	8.01	2.62	0.21	0.04	0.80	0.23	0.06	0.01	0.01	1.03
W443403		2.29	48.7	14.00	13.35	11.25	7.20	1.76	0.23	0.03	0.74	0.22	0.05	0.01	0.01	1.30
W443404		2.29	48.6	14.40	13.60	11.85	7.20	1.36	0.47	0.04	0.76	0.21	0.05	0.01	0.02	1.67
W443405		2.26	48.8	14.75	14.05	9.78	8.08	1.99	0.45	0.04	0.79	0.24	0.06	0.01	0.02	1.15
W443406		2.48	48.0	15.15	13.55	9.34	7.74	2.28	0.35	0.04	0.80	0.26	0.06	0.01	0.01	1.48
W443407		2.57	47.6	14.80	13.80	9.17	7.78	2.52	0.30	0.04	0.77	0.27	0.05	0.01	0.01	1.39
W443408		2.74	44.5	13.35	17.15	13.50	5.71	1.47	0.28	0.04	0.65	0.39	0.04	0.01	0.01	1.41
W443409		1.75	44.5	15.40	14.50	12.85	6.50	1.68	0.40	0.04	0.78	0.29	0.05	0.01	0.01	1.43
W443410		3.04	70.6	15.05	2.72	3.90	1.00	3.92	1.39	0.01	0.24	0.04	0.05	0.01	0.02	1.46
W443411		0.04	47.1	13.00	21.2	6.28	6.55	2.17	0.63	0.03	1.23	0.19	0.15	0.03	0.02	1.19
W443412		2.34	72.4	15.25	2.43	3.26	0.87	4.30	1.40	<0.01	0.24	0.03	0.07	0.02	0.02	1.11
W443413		2.26	71.3	15.35	2.38	3.10	0.74	4.40	1.55	<0.01	0.24	0.03	0.07	0.02	0.02	1.32
W443414		2.33	69.5	15.00	2.23	3.20	0.74	4.24	1.54	<0.01	0.24	0.03	0.05	0.01	0.03	1.29
W443415		2.24	69.8	15.00	2.37	3.07	0.78	4.41	1.51	<0.01	0.23	0.03	0.06	0.02	0.03	1.30
W443416		2.35	71.5	15.20	2.57	3.69	0.78	4.31	1.39	<0.01	0.24	0.03	0.07	0.01	0.03	1.34
W443417		2.21	71.7	15.20	2.46	3.10	0.76	4.26	1.65	<0.01	0.25	0.03	0.06	0.02	0.03	1.51
W443418		2.26	71.5	15.40	2.43	2.81	0.81	4.72	1.46	<0.01	0.24	0.03	0.05	0.01	0.03	1.30
W443419		1.97	71.8	15.20	2.46	3.13	0.81	4.47	1.51	<0.01	0.24	0.03	0.06	0.01	0.03	1.50
W443420		2.22	48.5	15.25	13.60	10.20	7.44	2.40	0.41	0.03	1.06	0.19	0.12	0.01	0.01	0.27
W443421		2.32	48.7	14.90	14.25	10.45	7.44	2.22	0.32	0.03	1.08	0.20	0.11	0.01	0.01	-0.20
W443422		2.19	50.1	15.55	13.20	10.15	6.12	2.84	0.48	0.03	1.16	0.20	0.12	0.01	0.02	0.35
W443423		2.21	48.4	15.60	14.45	9.75	7.82	2.26	0.38	0.02	1.02	0.20	0.11	0.01	0.01	-0.03
W443424		2.27	50.5	13.80	13.50	10.45	8.14	2.12	0.28	0.01	0.94	0.22	0.08	0.01	0.01	-0.28
W443425		2.33	48.4	15.50	13.50	10.60	8.25	2.16	0.27	0.02	0.86	0.18	0.08	0.01	0.01	-0.31
W443426		2.42	48.5	15.85	14.80	9.58	9.36	2.23	0.35	0.02	0.96	0.20	0.08	0.01	0.01	-0.29
W443427		2.16	46.5	15.60	16.55	8.97	8.66	1.90	0.65	0.01	0.64	0.23	0.05	0.01	0.02	1.59
W443428		2.36	48.2	16.30	14.30	9.54	9.30	2.29	0.27	0.01	0.87	0.19	0.08	0.01	0.01	-0.45
W443429		2.37	48.1	16.00	14.50	9.57	10.15	2.24	0.26	0.02	0.87	0.19	0.08	0.01	0.01	-0.45
W443430		2.36	48.1	16.20	13.75	9.81	8.31	2.22	0.36	0.02	0.85	0.19	0.07	0.01	0.01	-0.15

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Finalized Date: 5-FEB-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18012298

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
W443391		91.28	9.33	0.01	106.5	1.5	10	0.44	0.07	0.04	<0.03	0.2	0.06	<5	<0.2	0.01
W443392		98.86	0.25	2.63	306	19.9	800	0.41	2.72	1.54	0.83	11.3	2.72	<5	2.0	0.53
W443393		101.97	0.05	0.10	103.5	6.3	230	0.38	3.09	2.06	0.69	16.0	2.43	<5	1.3	0.67
W443394		101.08	0.16	0.07	317	8.6	180	0.93	3.29	2.15	0.69	16.1	2.67	<5	1.4	0.70
W443395		99.61	0.27	0.22	586	92.5	60	2.39	2.78	1.12	1.85	19.3	4.54	<5	3.8	0.47
W443396		99.63	0.09	0.07	123.5	6.0	250	0.51	2.87	1.84	0.64	15.6	2.30	<5	1.2	0.64
W443397		100.30	0.14	0.09	117.5	6.6	250	0.67	3.11	2.05	0.74	17.0	2.70	<5	1.2	0.69
W443398		99.83	0.11	0.11	109.0	6.1	240	0.52	3.10	2.03	0.70	15.4	2.32	<5	1.2	0.60
W443399		101.34	0.12	0.17	79.3	6.4	260	0.37	3.16	1.96	0.67	16.9	2.54	<5	1.3	0.66
W443400		99.76	0.25	0.05	72.0	5.4	220	0.38	2.64	1.73	0.64	15.4	2.11	<5	1.1	0.58
W443401		99.03	0.10	0.14	94.9	6.9	250	0.46	3.21	2.26	0.73	16.0	2.67	<5	1.4	0.71
W443402		100.78	0.03	0.03	64.7	6.2	240	0.35	2.96	2.00	0.70	14.9	2.47	<5	1.2	0.62
W443403		98.85	0.12	0.03	68.8	6.2	240	0.35	2.88	1.88	0.65	15.8	2.35	<5	1.3	0.64
W443404		100.24	0.09	0.06	125.5	5.8	230	0.70	2.62	1.80	0.68	15.6	2.18	<5	1.1	0.57
W443405		100.21	0.02	0.09	171.0	6.6	260	0.97	3.01	1.97	0.75	16.0	2.56	<5	1.3	0.65
W443406		99.07	0.06	0.06	120.5	7.4	300	0.66	3.10	2.12	0.77	15.3	2.58	<5	1.4	0.71
W443407		98.51	0.03	0.11	83.5	6.1	270	0.53	2.88	1.94	0.60	14.5	2.35	<5	1.3	0.61
W443408		98.51	0.15	0.67	69.2	6.4	270	1.31	2.76	1.96	0.66	16.4	2.34	<5	1.2	0.61
W443409		98.44	0.12	0.09	109.0	7.6	310	0.99	3.26	2.23	0.79	17.0	2.62	<5	1.4	0.76
W443410		100.41	0.19	0.01	215	20.2	30	1.62	0.80	0.43	0.51	18.3	1.27	<5	3.2	0.15
W443411		99.77	0.07	1.55	216	26.3	240	0.94	2.40	1.45	1.14	15.0	2.77	<5	2.4	0.50
W443412		101.40	0.17	<0.01	178.5	20.0	30	2.09	0.75	0.36	0.46	18.6	1.05	<5	2.9	0.13
W443413		100.52	0.19	0.01	217	21.2	20	2.31	0.70	0.39	0.48	19.3	1.25	<5	3.4	0.13
W443414		98.10	0.20	<0.01	269	20.9	30	2.15	0.84	0.34	0.54	18.7	1.31	<5	2.9	0.15
W443415		98.61	0.20	0.02	289	21.1	20	2.18	0.81	0.36	0.52	19.0	1.27	<5	3.2	0.13
W443416		101.16	0.22	0.01	262	20.7	30	2.52	0.73	0.34	0.53	18.7	1.20	<5	2.9	0.14
W443417		101.03	0.22	0.01	297	21.4	30	2.86	0.72	0.35	0.51	19.8	1.20	<5	3.1	0.15
W443418		100.79	0.18	<0.01	291	20.1	30	2.18	0.75	0.33	0.52	18.4	1.23	<5	3.1	0.14
W443419		101.25	0.24	<0.01	295	21.8	30	2.53	0.82	0.42	0.47	18.6	1.30	<5	3.3	0.14
W443420		99.49	0.03	0.01	132.0	17.4	220	1.01	3.95	2.46	1.13	18.4	3.72	<5	2.3	0.82
W443421		99.52	<0.01	0.01	125.0	16.1	220	0.62	4.30	2.52	1.02	18.7	3.65	<5	2.2	0.88
W443422		100.33	<0.01	0.02	142.5	17.9	190	0.87	4.42	2.55	1.21	19.1	3.87	<5	2.5	0.94
W443423		100.00	0.01	0.01	117.0	14.2	140	0.82	3.61	2.07	0.95	17.9	3.07	<5	1.9	0.76
W443424		99.78	<0.01	0.01	92.7	11.6	100	0.46	3.21	2.04	0.91	17.1	2.95	<5	1.6	0.69
W443425		99.53	<0.01	0.01	93.7	12.3	170	0.53	3.25	1.89	1.00	17.9	2.98	<5	1.7	0.68
W443426		101.66	0.01	0.01	110.5	13.1	130	0.68	3.35	2.06	1.00	18.2	3.05	<5	1.8	0.70
W443427		101.38	0.05	0.02	133.0	7.3	100	1.55	2.01	1.25	0.68	16.3	1.85	<5	1.0	0.46
W443428		100.92	<0.01	0.01	94.1	12.4	90	0.54	3.05	1.99	0.94	18.6	2.87	<5	1.9	0.67
W443429		101.55	<0.01	0.01	83.4	11.5	110	0.41	2.73	1.79	0.86	17.1	2.55	<5	1.6	0.60
W443430		99.75	0.02	<0.01	98.3	11.4	120	0.61	2.98	1.64	0.91	18.0	2.52	<5	1.6	0.58

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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
W443391		1.1	0.01	<0.2	0.5	0.15	1.3	0.06	<1	128.0	<0.1	0.01	0.18	<0.01	0.28	5
W443392		9.5	0.23	6.4	10.9	2.52	4.8	2.43	2	66.2	0.3	0.45	2.05	0.23	1.03	193
W443393		2.4	0.32	1.8	5.4	0.98	13.1	1.71	1	150.5	0.1	0.42	0.20	0.31	0.05	315
W443394		3.4	0.33	2.0	6.5	1.28	39.5	1.99	1	171.0	0.1	0.46	0.36	0.34	0.12	320
W443395		43.5	0.15	6.5	43.6	11.35	26.4	7.06	1	842	0.4	0.54	8.26	0.15	2.72	95
W443396		2.1	0.31	1.8	5.0	0.94	12.7	1.63	<1	144.0	0.1	0.42	0.17	0.28	0.12	291
W443397		2.4	0.35	2.0	5.6	1.04	14.6	1.85	1	128.5	0.1	0.47	0.19	0.32	0.09	316
W443398		2.2	0.30	1.7	5.2	0.99	14.6	1.70	1	120.0	0.1	0.43	0.18	0.29	0.06	291
W443399		2.3	0.31	1.9	5.5	1.00	10.6	1.97	1	125.0	0.1	0.45	0.18	0.31	0.06	309
W443400		2.0	0.27	1.6	4.7	0.89	9.8	1.48	<1	129.0	0.1	0.37	0.16	0.27	<0.05	264
W443401		2.5	0.33	2.1	5.8	1.14	11.3	1.92	<1	114.5	0.1	0.48	0.20	0.32	0.06	333
W443402		2.3	0.31	1.8	5.2	0.99	4.5	1.74	<1	125.5	0.1	0.42	0.17	0.28	<0.05	292
W443403		2.3	0.30	1.7	5.2	1.02	6.2	1.77	<1	142.0	0.1	0.42	0.18	0.29	0.05	293
W443404		2.2	0.30	1.6	4.8	0.91	15.2	1.59	<1	134.5	0.1	0.38	0.15	0.25	<0.05	272
W443405		2.4	0.31	1.9	5.5	1.03	13.5	1.63	<1	116.5	0.1	0.44	0.18	0.31	<0.05	301
W443406		2.7	0.33	2.3	6.1	1.16	11.1	1.92	1	128.0	0.1	0.47	0.32	0.32	0.21	312
W443407		2.2	0.30	1.9	5.1	0.95	8.4	1.77	<1	112.0	0.1	0.43	0.18	0.30	0.07	302
W443408		2.5	0.32	1.8	5.1	0.98	8.7	1.75	1	148.0	0.1	0.41	0.25	0.30	0.12	261
W443409		3.0	0.36	2.2	6.1	1.17	11.7	2.02	1	202	0.1	0.45	0.20	0.36	0.08	328
W443410		10.8	0.06	2.7	8.2	2.27	39.3	1.50	<1	136.5	0.2	0.15	2.02	0.07	0.69	36
W443411		12.0	0.19	7.3	13.7	3.35	16.0	3.03	4	257	0.4	0.42	1.44	0.22	0.49	128
W443412		10.8	0.05	2.6	8.3	2.18	36.7	1.56	<1	159.0	0.2	0.17	2.05	0.05	0.68	29
W443413		11.2	0.05	2.8	8.2	2.27	38.8	1.59	1	176.0	0.2	0.15	2.21	0.05	0.74	31
W443414		11.2	0.05	2.8	8.7	2.34	40.4	1.77	1	171.5	0.6	0.14	2.12	0.06	0.73	31
W443415		11.5	0.06	2.7	8.7	2.28	38.9	1.56	1	169.5	0.3	0.17	2.17	0.05	0.77	31
W443416		11.1	0.05	2.8	8.0	2.30	38.4	1.55	1	133.5	0.2	0.15	2.15	0.05	0.85	31
W443417		11.5	0.05	2.9	8.3	2.38	45.4	1.66	1	184.5	0.2	0.16	2.23	0.05	0.71	32
W443418		10.9	0.05	2.7	8.2	2.22	37.8	1.46	<1	173.0	0.2	0.17	2.09	0.05	0.68	30
W443419		11.8	0.06	2.8	8.9	2.35	39.5	1.73	1	175.0	0.2	0.15	2.13	0.06	0.71	31
W443420		7.7	0.35	5.3	11.1	2.35	10.6	3.20	1	153.5	0.2	0.63	1.08	0.34	0.31	307
W443421		7.0	0.38	4.7	10.7	2.28	8.2	3.21	1	151.5	0.3	0.66	1.03	0.37	0.29	315
W443422		7.8	0.38	5.0	11.2	2.46	13.4	3.28	2	150.5	0.3	0.69	1.32	0.42	0.56	326
W443423		6.1	0.30	3.9	9.1	1.92	10.2	2.88	1	151.5	0.2	0.55	0.88	0.33	0.24	284
W443424		5.0	0.31	3.2	7.7	1.63	7.1	2.39	1	139.0	0.2	0.50	0.71	0.32	0.20	331
W443425		5.4	0.28	3.3	8.2	1.69	6.7	2.34	1	157.0	0.2	0.49	0.82	0.30	0.23	269
W443426		5.7	0.29	3.6	9.0	1.83	8.6	2.50	1	156.0	0.2	0.53	0.85	0.31	0.27	272
W443427		3.2	0.20	1.9	4.8	0.98	20.3	1.37	<1	148.0	0.1	0.32	0.47	0.19	0.15	199
W443428		5.5	0.29	3.3	8.3	1.72	6.8	2.27	<1	157.0	0.2	0.47	0.80	0.31	0.21	251
W443429		4.9	0.23	3.2	7.5	1.58	5.9	2.11	1	146.5	0.2	0.43	0.69	0.26	0.19	240
W443430		5.0	0.25	3.0	7.3	1.57	8.6	2.13	<1	151.0	0.2	0.45	0.72	0.26	0.22	241

***** 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: 5-FEB-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18012298

Sample Description	Method	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-MS42	ME-4ACD81	ME-4ACD81
	Analyte	W	Y	Yb	Zr	As	Bi	Hg	In	Re	Sb	Se	Te	Tl	Ag	Cd
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	1	0.1	0.03	2	0.1	0.01	0.005	0.005	0.001	0.05	0.2	0.01	0.02	0.5	0.5
W443391		1	0.5	0.05	2	0.8	0.02	<0.005	<0.005	<0.001	0.08	<0.2	<0.01	0.05	<0.5	<0.5
W443392		1	14.4	1.36	80	42.5	0.34	0.104	0.053	0.014	1.41	10.2	1.32	0.06	2.7	1.6
W443393		<1	17.9	2.01	46	0.2	0.02	<0.005	0.010	0.002	<0.05	0.4	0.03	0.05	<0.5	0.8
W443394		1	18.5	2.18	50	0.2	0.01	<0.005	0.010	0.001	<0.05	0.2	0.02	0.04	<0.5	0.8
W443395		1	12.6	1.07	148	0.3	0.06	<0.005	0.010	<0.001	<0.05	0.2	0.01	0.15	<0.5	<0.5
W443396		1	16.7	1.85	43	0.1	0.01	<0.005	0.009	0.001	<0.05	0.3	0.03	0.05	<0.5	0.9
W443397		1	18.6	2.17	46	0.1	0.03	<0.005	0.008	0.001	<0.05	0.5	0.03	0.06	<0.5	0.9
W443398		4	17.0	1.90	44	0.1	0.04	<0.005	0.010	0.001	<0.05	0.4	0.03	0.05	<0.5	1.1
W443399		2	17.8	1.96	46	0.1	0.04	0.006	0.014	0.001	<0.05	0.5	0.04	0.04	<0.5	1.1
W443400		1	15.4	1.77	40	1.1	0.01	<0.005	0.008	<0.001	<0.05	0.4	0.03	0.04	<0.5	1.0
W443401		3	19.2	2.07	50	0.3	0.02	<0.005	0.011	0.001	<0.05	0.6	0.02	0.06	<0.5	0.9
W443402		1	16.8	1.95	43	0.2	0.01	<0.005	0.013	<0.001	<0.05	0.2	0.02	0.03	<0.5	1.7
W443403		<1	16.6	1.91	44	0.7	0.01	<0.005	0.009	<0.001	0.05	0.4	0.02	0.04	<0.5	0.8
W443404		1	15.2	1.77	40	0.5	0.03	<0.005	0.010	0.001	0.05	0.3	0.03	0.06	<0.5	0.8
W443405		<1	17.5	1.94	47	0.3	0.02	<0.005	0.011	0.001	0.05	0.5	0.03	0.07	<0.5	0.8
W443406		<1	18.7	2.14	51	0.2	0.02	<0.005	0.013	<0.001	<0.05	0.5	0.01	0.05	<0.5	1.0
W443407		1	17.4	1.95	45	0.1	0.03	<0.005	0.012	0.001	<0.05	0.3	0.02	0.08	<0.5	0.8
W443408		2	17.3	1.94	44	<0.1	0.10	<0.005	0.019	0.001	0.05	1.2	0.05	0.10	<0.5	0.6
W443409		2	20.0	2.24	50	0.1	0.08	<0.005	0.019	0.002	0.05	0.4	0.03	0.10	<0.5	0.8
W443410		1	4.3	0.39	124	0.3	0.01	<0.005	0.006	<0.001	<0.05	<0.2	<0.01	0.05	<0.5	<0.5
W443411		3	13.0	1.39	100	4.4	0.91	0.012	0.071	0.005	0.34	5.2	0.60	0.10	2.0	1.4
W443412		1	3.9	0.38	118	0.2	0.01	<0.005	0.005	<0.001	<0.05	<0.2	<0.01	0.11	<0.5	<0.5
W443413		1	3.8	0.38	132	0.2	0.01	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	0.11	<0.5	<0.5
W443414		<1	4.0	0.35	117	<0.1	0.02	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	0.10	<0.5	<0.5
W443415		1	4.0	0.37	117	0.1	0.01	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	0.09	<0.5	<0.5
W443416		1	4.0	0.31	114	<0.1	0.02	<0.005	0.006	<0.001	<0.05	<0.2	<0.01	0.11	<0.5	<0.5
W443417		3	4.0	0.34	125	0.1	0.02	<0.005	0.005	<0.001	<0.05	<0.2	<0.01	0.10	<0.5	<0.5
W443418		5	3.7	0.33	121	0.1	0.01	<0.005	0.006	<0.001	<0.05	<0.2	<0.01	0.08	<0.5	<0.5
W443419		1	4.0	0.32	132	<0.1	0.02	<0.005	0.005	<0.001	<0.05	<0.2	<0.01	0.09	<0.5	<0.5
W443420		<1	21.9	2.28	86	0.5	0.02	<0.005	0.011	<0.001	<0.05	0.2	<0.01	0.63	<0.5	0.8
W443421		1	23.0	2.29	84	0.6	0.02	<0.005	0.014	0.001	<0.05	0.2	<0.01	0.07	<0.5	<0.5
W443422		2	24.7	2.50	92	0.5	0.03	<0.005	0.018	<0.001	<0.05	0.2	<0.01	0.08	<0.5	0.9
W443423		<1	19.7	2.12	74	0.4	0.02	<0.005	0.014	0.001	<0.05	0.4	<0.01	0.11	<0.5	0.7
W443424		1	18.0	1.97	59	0.2	0.02	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	0.03	<0.5	0.9
W443425		3	18.3	1.98	66	0.3	0.01	<0.005	0.014	<0.001	<0.05	0.3	<0.01	0.08	<0.5	0.6
W443426		1	18.6	1.98	69	0.3	0.02	<0.005	0.019	0.001	<0.05	<0.2	<0.01	0.14	<0.5	0.6
W443427		2	11.4	1.30	36	0.3	0.04	<0.005	0.014	<0.001	<0.05	0.3	0.01	0.55	<0.5	0.8
W443428		1	17.6	1.82	67	0.3	0.02	<0.005	0.017	0.001	<0.05	<0.2	<0.01	0.08	<0.5	0.6
W443429		<1	16.1	1.69	61	0.3	0.01	<0.005	0.014	0.001	<0.05	0.2	<0.01	0.05	<0.5	<0.5
W443430		<1	16.2	1.69	57	0.6	0.02	<0.005	0.014	<0.001	<0.05	<0.2	<0.01	0.18	<0.5	<0.5

***** 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: 5-FEB-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18012298

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
W443391		<1	1	20	<1	5	4	<1	27	0.002	<0.005	<0.001	0.004
W443392		157	5700	40	1	2210	6	26	78	0.125	0.711	0.356	11.50
W443393		51	166	20	1	127	<2	43	93	0.003	0.010	0.011	0.375
W443394		46	162	30	<1	116	5	41	120	0.002	0.008	0.008	0.250
W443395		20	49	40	<1	74	11	10	61	<0.001	<0.005	0.001	0.126
W443396		48	183	20	<1	145	<2	40	91	0.005	0.014	0.018	0.282
W443397		50	156	30	<1	141	2	42	104	0.005	0.012	0.015	0.315
W443398		50	159	30	<1	132	<2	43	124	0.005	0.015	0.018	0.337
W443399		52	165	30	<1	136	2	42	221	0.003	0.014	0.017	0.473
W443400		49	146	20	<1	131	<2	40	104	0.003	0.014	0.016	0.231
W443401		53	203	20	<1	131	<2	44	113	0.004	0.014	0.014	0.446
W443402		53	151	20	1	143	2	29	168	0.010	0.017	0.022	0.177
W443403		52	174	20	<1	136	4	30	118	0.004	0.016	0.022	0.139
W443404		51	161	30	1	139	5	34	127	0.002	0.017	0.023	0.220
W443405		56	174	30	<1	146	2	37	121	0.002	0.017	0.021	0.312
W443406		55	92	30	1	148	<2	30	132	0.001	0.010	0.011	0.177
W443407		50	144	30	1	152	<2	35	136	0.003	0.010	0.014	0.290
W443408		48	220	20	<1	120	4	35	99	0.002	<0.005	0.006	1.110
W443409		53	160	20	2	153	2	35	113	0.002	0.005	0.007	0.336
W443410		7	4	20	1	10	2	4	42	<0.001	<0.005	<0.001	0.014
W443411		116	4540	20	5	4420	25	12	111	0.050	0.330	0.605	4.81
W443412		6	4	20	1	10	6	3	35	0.005	<0.005	<0.001	0.005
W443413		6	6	20	1	8	4	4	37	<0.001	<0.005	<0.001	0.005
W443414		5	9	20	1	7	3	4	42	<0.001	<0.005	<0.001	0.008
W443415		6	22	20	1	7	2	4	50	<0.001	<0.005	<0.001	0.017
W443416		6	18	20	1	7	4	4	48	<0.001	<0.005	<0.001	0.016
W443417		6	17	20	1	8	5	4	46	<0.001	<0.005	<0.001	0.010
W443418		5	5	20	1	8	<2	4	54	<0.001	<0.005	<0.001	0.006
W443419		5	9	20	1	7	5	3	50	<0.001	<0.005	<0.001	0.007
W443420		59	174	20	1	149	6	33	107	0.004	0.005	0.016	0.138
W443421		57	181	10	1	157	7	30	117	0.004	<0.005	0.015	0.145
W443422		49	200	20	1	123	5	32	216	0.003	<0.005	0.016	0.128
W443423		69	158	20	1	207	6	26	101	0.003	0.005	0.014	0.122
W443424		54	140	10	<1	124	2	34	103	0.003	<0.005	0.013	0.128
W443425		64	150	10	<1	213	5	26	100	0.002	0.007	0.014	0.126
W443426		72	161	10	1	276	8	22	116	0.003	0.006	0.015	0.136
W443427		76	86	40	1	259	109	20	288	0.002	0.007	0.012	0.105
W443428		69	147	10	1	276	3	21	103	0.002	0.005	0.014	0.141
W443429		78	146	10	1	286	6	18	102	0.002	0.006	0.013	0.142
W443430		62	130	10	1	210	3	20	94	0.003	0.007	0.012	0.129

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

Finalized Date: 5-FEB-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18012298

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
W443431		1.15	12.50	0.07	0.17	28.6	21.2	0.16	0.03	<0.01	0.01	0.05	0.01	0.02	0.13	37.3
W443432		2.49	47.4	16.60	13.35	9.68	8.24	2.32	0.33	0.01	0.90	0.18	0.08	0.01	0.01	-0.28
W443433		2.38	48.3	16.75	13.85	9.78	8.51	2.35	0.31	0.01	0.94	0.19	0.09	0.02	0.01	-0.33
W443434		2.28	48.9	16.90	14.00	9.83	8.48	2.41	0.29	0.01	0.97	0.19	0.09	0.01	0.01	-0.38
W443435		2.31	47.7	16.25	13.85	9.63	8.37	2.30	0.29	0.01	0.96	0.18	0.08	0.01	0.01	-0.36
W443436		2.33	48.0	16.40	13.80	9.73	7.96	2.37	0.30	0.01	0.96	0.18	0.10	0.01	0.01	-0.33
W443437		2.36	47.9	16.25	14.05	9.67	8.20	2.34	0.32	0.01	0.99	0.19	0.09	0.01	0.01	-0.27
W443438		2.26	48.3	16.30	13.95	9.67	8.04	2.41	0.30	0.01	0.99	0.19	0.10	0.01	0.01	-0.38
W443439		2.35	47.8	15.85	14.10	9.62	7.97	2.39	0.29	0.01	1.03	0.19	0.10	0.01	0.01	-0.33
W443440		2.21	48.5	15.45	14.45	10.05	8.01	2.39	0.40	0.01	1.07	0.20	0.16	0.01	0.01	0.43
W443441		2.29	50.0	15.05	15.05	10.15	7.92	2.25	0.31	0.01	1.12	0.20	0.11	0.02	0.01	-0.24
W443442		2.52	50.1	14.90	15.20	10.10	7.38	2.26	0.37	0.01	1.21	0.21	0.12	0.01	0.01	-0.25
W443443		2.51	49.4	14.25	15.30	9.99	6.86	2.23	0.41	0.01	1.27	0.22	0.13	0.01	0.02	-0.18
W443444		2.45	50.0	14.35	15.50	10.05	7.47	2.22	0.42	0.01	1.28	0.22	0.13	0.02	0.02	0.05
W443445		2.47	49.1	14.70	15.25	9.96	7.62	2.42	0.65	0.01	1.25	0.21	0.12	0.01	0.02	0.54
W443446		2.58	49.4	14.70	15.35	9.99	7.70	2.42	0.55	0.01	1.24	0.21	0.13	0.01	0.02	0.20
W443447		2.57	49.2	14.45	15.50	9.79	7.81	2.39	0.59	0.01	1.25	0.22	0.13	0.01	0.02	0.40
W443448		2.47	46.6	13.25	15.45	9.84	7.68	2.30	0.79	0.01	1.21	0.24	0.14	0.01	0.02	2.16
W443449		2.51	49.5	14.15	15.75	9.83	6.69	2.44	0.53	0.01	1.37	0.23	0.14	0.01	0.02	0.42
W443450		2.64	49.1	13.65	14.80	9.34	6.13	2.51	0.58	0.01	1.33	0.23	0.14	0.01	0.02	0.79
W443451		0.04	43.0	9.45	15.50	16.35	11.15	0.76	0.23	0.11	0.70	0.15	0.12	<0.01	0.03	3.80
W443452		2.03	69.2	13.30	5.05	2.83	1.60	4.35	1.19	<0.01	0.55	0.08	0.10	0.01	0.03	1.67
W443453		2.55	70.7	12.65	6.63	2.31	0.77	4.51	0.82	<0.01	0.24	0.05	0.07	0.01	0.02	2.43
W443454		2.52	47.2	12.15	18.25	6.45	6.11	1.74	0.90	0.02	0.88	0.27	0.10	0.01	0.02	4.01
W443455		1.33	74.9	13.20	2.90	1.94	1.32	3.52	1.73	<0.01	0.24	0.05	0.08	0.02	0.06	1.26
W443456		1.90	56.2	9.30	20.6	0.89	1.48	1.56	1.84	<0.01	0.16	0.05	0.05	0.01	0.04	8.11
W443457		2.50	71.9	13.10	3.06	3.44	2.20	3.01	2.12	0.01	0.23	0.08	0.07	0.02	0.06	1.46
W443458		2.27	73.7	13.05	2.34	2.42	1.48	3.22	2.07	<0.01	0.23	0.06	0.07	0.02	0.06	1.18
W443459		2.51	73.8	12.00	2.48	2.47	1.09	2.94	1.92	<0.01	0.22	0.05	0.07	0.02	0.05	1.24
W443460		2.25	50.6	14.30	14.70	7.15	7.00	2.02	1.09	0.02	1.02	0.31	0.09	0.02	0.03	1.23
W443461		2.67	48.9	13.75	15.20	9.16	6.52	2.03	1.12	0.02	1.07	0.30	0.09	0.03	0.03	1.14
W443462		2.35	49.7	14.80	15.55	8.57	6.92	2.25	1.08	0.02	1.10	0.28	0.10	0.02	0.03	1.16
W443463		2.16	50.2	13.70	14.95	8.30	6.92	2.09	0.96	0.02	1.11	0.29	0.09	0.02	0.03	1.04
W443464		1.88	47.0	12.50	14.50	11.50	6.68	1.45	1.41	0.02	1.01	0.33	0.07	0.02	0.03	1.51
W443465		2.20	69.8	13.30	3.86	3.52	2.34	3.07	2.24	0.01	0.41	0.09	0.09	0.02	0.07	1.06
W443466		2.35	75.4	13.95	1.95	1.70	1.00	4.07	2.34	<0.01	0.26	0.04	0.08	0.02	0.07	1.08
W443467		2.10	70.7	12.90	4.29	1.86	0.90	4.17	1.61	<0.01	0.22	0.04	0.08	0.01	0.04	2.16
W443468		0.04	47.8	12.60	21.1	6.38	6.59	2.13	0.64	0.03	1.25	0.19	0.16	0.03	0.02	1.21

***** 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: 5-FEB-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18012298

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
W443431		100.25	10.25	0.02	1145	0.9	<10	0.59	0.07	0.05	<0.03	0.1	0.06	<5	<0.2	0.02
W443432		98.83	0.03	0.01	106.5	13.0	90	0.55	3.16	1.86	0.91	18.8	2.84	<5	1.7	0.73
W443433		100.78	0.01	0.01	99.2	13.3	80	0.66	3.23	2.08	0.97	18.4	2.90	<5	1.8	0.70
W443434		101.71	0.03	0.01	99.3	13.7	80	0.42	3.41	2.09	0.96	18.9	2.94	<5	1.9	0.69
W443435		99.28	0.01	0.01	97.2	13.6	80	0.42	3.35	2.07	0.94	18.3	3.15	<5	2.0	0.70
W443436		99.50	0.01	0.01	100.5	14.9	90	0.49	3.45	2.21	0.99	19.4	3.27	<5	1.9	0.77
W443437		99.76	0.01	<0.01	103.5	14.4	80	0.49	3.52	2.28	0.98	18.6	3.28	<5	2.0	0.75
W443438		99.90	0.01	0.01	104.5	14.9	90	0.49	3.75	2.18	1.04	19.0	3.34	<5	2.0	0.77
W443439		99.04	<0.01	0.01	100.5	14.3	90	0.63	3.56	2.21	0.96	18.4	3.28	<5	2.0	0.77
W443440		101.14	0.01	0.01	133.5	20.6	90	0.77	3.94	2.38	1.05	19.5	3.75	<5	2.2	0.84
W443441		101.96	<0.01	0.01	110.5	16.4	90	0.53	4.10	2.50	1.05	18.7	3.74	<5	2.3	0.85
W443442		101.63	<0.01	0.01	133.5	16.1	90	0.65	4.07	2.45	1.12	18.5	3.89	<5	2.3	0.82
W443443		99.92	<0.01	0.01	150.0	18.9	100	0.81	4.55	2.66	1.18	20.8	4.27	<5	2.7	0.96
W443444		101.74	<0.01	0.01	138.0	17.8	100	1.12	4.52	2.67	1.18	20.0	4.23	<5	2.4	0.92
W443445		101.86	0.02	0.03	174.5	18.8	100	1.33	4.48	2.66	1.21	19.7	4.17	<5	2.4	0.94
W443446		101.93	0.01	0.01	163.0	19.1	110	1.10	4.64	2.76	1.23	20.7	4.34	<5	2.4	0.96
W443447		101.77	<0.01	0.01	160.0	19.0	110	1.24	4.43	2.76	1.17	20.7	4.33	<5	2.6	0.96
W443448		99.70	0.05	0.06	191.0	24.2	100	1.19	5.05	3.00	1.35	20.0	4.65	<5	2.5	1.04
W443449		101.09	0.01	0.02	165.5	20.2	110	1.25	4.99	3.04	1.26	20.3	4.64	<5	2.8	1.01
W443450		98.64	0.01	0.06	165.5	23.9	100	1.03	4.70	2.74	1.27	19.6	4.55	<5	2.8	0.96
W443451		101.35	0.23	2.69	310	20.7	850	0.42	2.78	1.60	0.83	11.1	2.74	<5	2.3	0.56
W443452		99.96	0.07	0.65	251	52.8	30	1.27	2.26	1.24	1.19	18.4	2.54	<5	3.5	0.44
W443453		101.21	0.03	2.53	221	49.1	20	0.37	1.03	0.51	0.77	17.3	1.41	<5	3.1	0.18
W443454		98.11	0.03	4.94	190.0	17.8	130	2.98	3.19	2.00	0.85	17.0	2.84	<5	1.9	0.70
W443455		101.22	<0.01	0.21	506	39.0	30	0.67	0.81	0.41	0.53	17.1	1.25	<5	3.3	0.15
W443456		100.29	0.01	11.90	328	33.8	20	0.79	0.66	0.30	0.36	12.6	0.92	<5	2.1	0.12
W443457		100.76	0.03	0.25	578	48.2	40	1.03	0.83	0.46	0.61	16.9	1.31	<5	3.3	0.17
W443458		99.90	0.01	0.05	574	41.9	20	0.70	0.90	0.52	0.53	17.2	1.34	<5	3.2	0.16
W443459		98.35	0.01	0.11	466	38.8	30	0.86	0.83	0.43	0.60	15.5	1.13	<5	2.9	0.15
W443460		99.58	0.04	0.24	257	15.7	160	3.10	4.05	2.52	0.86	18.9	3.47	<5	2.3	0.88
W443461		99.36	0.04	0.08	288	10.6	150	0.84	3.82	2.45	0.90	17.5	3.36	<5	1.9	0.86
W443462		101.58	0.02	0.22	279	11.4	160	1.07	4.07	2.66	1.04	18.6	3.60	<5	2.1	0.91
W443463		99.72	0.01	0.09	235	11.8	160	1.12	4.31	2.64	0.94	18.3	3.50	<5	2.1	0.87
W443464		98.03	0.10	0.27	294	11.6	130	2.64	3.36	2.37	0.76	15.6	3.07	<5	1.5	0.74
W443465		99.88	<0.01	0.06	625	36.9	40	0.93	1.46	0.85	0.58	18.0	1.74	<5	3.1	0.27
W443466		101.96	0.01	0.03	546	38.4	30	0.64	0.65	0.35	0.49	16.0	1.15	<5	3.3	0.15
W443467		98.98	0.02	1.87	384	41.5	20	0.56	0.77	0.44	0.48	16.2	1.17	<5	2.9	0.13
W443468		100.13	0.07	1.68	211	26.4	240	0.85	2.39	1.36	1.07	15.3	2.86	<5	2.1	0.47

***** 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: 5-FEB-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18012298

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
W443431		0.7	0.01	<0.2	0.3	0.09	0.9	0.06	<1	196.0	<0.1	0.01	0.06	0.01	0.19	5
W443432		5.5	0.30	3.3	8.5	1.76	8.7	2.33	1	164.0	0.2	0.49	0.81	0.30	0.23	264
W443433		5.9	0.27	3.6	8.7	1.80	7.7	2.56	1	161.0	0.2	0.51	0.89	0.29	0.25	256
W443434		6.1	0.31	3.7	9.2	1.93	6.8	2.73	1	159.5	0.2	0.52	0.82	0.31	0.24	274
W443435		5.8	0.30	3.6	9.0	1.92	6.9	2.49	1	155.5	0.2	0.53	0.85	0.32	0.27	273
W443436		6.6	0.32	3.9	9.6	2.00	7.8	2.97	1	163.0	0.2	0.55	0.90	0.33	0.27	279
W443437		6.3	0.34	3.7	9.5	1.97	7.9	2.61	1	157.0	0.2	0.55	0.92	0.35	0.28	275
W443438		6.5	0.33	4.1	9.4	2.06	7.6	3.08	1	159.5	0.2	0.56	0.94	0.33	0.28	282
W443439		6.2	0.32	3.7	9.4	2.02	6.8	2.57	1	153.5	0.2	0.56	0.91	0.32	0.27	289
W443440		10.4	0.35	4.2	11.0	2.56	11.8	3.02	1	162.5	0.3	0.63	1.05	0.36	0.45	298
W443441		7.2	0.35	4.1	10.1	2.27	8.1	3.06	1	159.0	0.2	0.64	0.98	0.34	0.24	298
W443442		7.1	0.34	4.2	10.2	2.34	9.5	2.94	1	153.5	0.3	0.64	0.96	0.37	0.27	310
W443443		8.3	0.40	4.9	11.8	2.73	12.4	3.54	1	162.5	0.3	0.73	1.11	0.42	0.37	361
W443444		8.0	0.37	4.6	11.4	2.45	12.0	3.25	1	158.0	0.3	0.73	1.10	0.42	0.30	343
W443445		8.5	0.39	4.8	11.5	2.55	21.6	3.37	1	165.5	0.3	0.72	1.05	0.39	0.52	354
W443446		8.6	0.41	4.9	12.1	2.69	18.2	3.48	1	165.5	0.3	0.75	1.10	0.43	0.43	360
W443447		8.3	0.41	4.9	12.4	2.60	19.6	3.82	1	160.5	0.3	0.75	1.12	0.41	0.42	355
W443448		11.1	0.42	4.9	13.2	3.05	26.5	3.95	2	133.5	0.3	0.80	1.19	0.42	1.95	367
W443449		8.9	0.43	5.3	12.6	2.77	16.6	3.64	1	150.0	0.3	0.81	1.17	0.44	0.47	376
W443450		11.4	0.39	5.0	13.1	3.06	16.3	3.66	1	138.5	0.3	0.75	1.34	0.42	1.08	353
W443451		10.2	0.22	6.6	11.1	2.66	5.0	2.68	2	69.2	0.4	0.46	1.91	0.22	0.97	195
W443452		28.2	0.18	4.3	18.9	5.60	29.9	3.21	1	151.5	0.4	0.36	4.29	0.17	1.37	103
W443453		26.5	0.08	3.7	16.2	5.06	18.4	2.38	1	167.5	0.3	0.19	4.51	0.08	1.07	31
W443454		8.9	0.33	3.2	9.6	2.29	25.6	2.34	1	168.5	0.2	0.51	1.02	0.33	0.28	281
W443455		20.0	0.07	3.8	13.2	4.21	33.8	1.97	1	171.5	0.4	0.15	4.73	0.06	1.08	24
W443456		18.4	0.06	2.6	11.0	3.51	52.1	1.58	<1	81.4	0.2	0.12	3.06	0.04	1.12	19
W443457		25.9	0.06	4.4	15.8	5.01	46.4	2.21	1	180.0	0.4	0.16	4.64	0.08	1.07	22
W443458		22.2	0.08	3.8	13.9	4.39	46.6	1.92	1	194.5	0.3	0.18	4.69	0.08	1.08	25
W443459		21.5	0.08	3.7	12.8	3.97	45.1	1.69	1	150.5	0.3	0.17	4.29	0.08	0.88	22
W443460		7.1	0.41	3.3	9.6	2.14	32.8	2.96	1	236	0.2	0.59	0.81	0.38	0.24	337
W443461		4.2	0.39	2.9	8.1	1.62	27.5	2.47	1	246	0.2	0.58	0.36	0.39	0.11	332
W443462		4.4	0.41	3.2	8.5	1.73	29.8	2.68	1	250	0.2	0.61	0.36	0.43	0.10	349
W443463		4.5	0.42	3.3	8.4	1.79	25.5	2.84	1	232	0.2	0.65	0.39	0.43	0.11	353
W443464		5.1	0.34	2.6	7.7	1.58	37.3	2.28	1	179.5	0.2	0.53	0.35	0.35	0.14	306
W443465		19.0	0.14	4.2	13.3	3.91	45.6	2.20	1	185.5	0.3	0.26	4.21	0.13	0.96	85
W443466		20.8	0.07	3.7	12.3	3.95	50.4	1.79	1	160.5	0.3	0.14	4.55	0.06	0.89	23
W443467		22.3	0.07	3.7	13.6	4.35	37.8	1.97	<1	157.0	0.3	0.16	4.63	0.06	0.94	22
W443468		12.1	0.19	6.9	13.3	3.22	16.0	2.78	4	253	0.4	0.42	1.36	0.20	0.43	119

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

Finalized Date: 5-FEB-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18012298

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
W443431		1	0.5	0.06	<2	0.8	0.04	<0.005	<0.005	<0.001	0.06	0.2	<0.01	0.07	<0.5	<0.5
W443432		<1	18.2	1.88	64	0.4	0.02	<0.005	0.021	0.001	<0.05	0.3	0.01	0.08	<0.5	<0.5
W443433		1	18.3	1.86	69	0.4	0.02	<0.005	0.019	0.001	<0.05	0.3	0.01	0.09	<0.5	<0.5
W443434		1	19.1	1.97	69	0.4	0.01	<0.005	0.016	0.001	<0.05	0.3	0.01	0.09	<0.5	<0.5
W443435		<1	19.0	1.98	73	0.3	0.02	<0.005	0.016	0.001	0.10	0.4	0.01	0.06	<0.5	0.5
W443436		1	20.5	2.07	75	0.5	0.02	<0.005	0.018	0.001	0.26	0.2	0.01	0.06	<0.5	<0.5
W443437		<1	20.2	2.10	73	0.5	0.02	<0.005	0.017	0.001	0.27	0.5	0.01	0.10	<0.5	0.7
W443438		<1	20.3	2.02	75	0.6	0.02	<0.005	0.016	<0.001	0.19	0.4	0.01	0.06	<0.5	0.6
W443439		<1	20.4	2.21	74	0.4	0.02	<0.005	0.015	0.001	0.12	0.4	0.01	0.06	<0.5	0.7
W443440		<1	22.8	2.34	77	0.5	0.03	<0.005	0.016	0.001	0.08	0.6	0.01	0.35	<0.5	0.7
W443441		1	22.5	2.16	80	0.6	0.02	<0.005	0.017	0.001	0.07	0.5	0.01	0.09	<0.5	0.5
W443442		1	22.9	2.26	77	0.5	0.02	<0.005	0.019	0.001	0.05	0.5	0.01	0.07	<0.5	0.6
W443443		1	26.6	2.61	99	0.6	0.05	<0.005	0.016	0.001	0.06	0.4	0.01	0.08	<0.5	0.7
W443444		1	25.1	2.44	91	0.7	0.03	<0.005	0.014	0.001	<0.05	0.4	0.01	0.10	<0.5	0.6
W443445		1	25.2	2.53	89	0.5	0.04	<0.005	0.015	0.001	0.05	0.4	0.01	0.58	<0.5	0.6
W443446		1	26.1	2.61	93	0.5	0.03	<0.005	0.009	0.001	<0.05	0.4	0.01	0.25	<0.5	0.7
W443447		1	26.1	2.60	94	0.3	0.03	<0.005	0.013	0.001	<0.05	0.2	0.01	0.37	<0.5	0.7
W443448		2	27.6	2.76	94	0.4	0.03	<0.005	0.014	0.002	<0.05	0.5	0.02	0.64	<0.5	0.7
W443449		1	28.1	2.89	100	0.4	0.02	<0.005	0.011	0.001	<0.05	<0.2	0.01	0.54	<0.5	0.8
W443450		1	26.6	2.59	100	0.5	0.03	<0.005	0.011	0.002	0.05	0.6	0.02	0.33	0.5	0.6
W443451		1	15.1	1.36	80	41.4	0.32	0.093	0.048	0.015	1.32	11.3	1.20	0.06	2.8	1.5
W443452		2	11.3	1.17	139	1.5	0.19	<0.005	0.017	0.004	0.09	0.4	0.05	0.20	0.9	<0.5
W443453		1	5.2	0.53	125	1.6	0.38	<0.005	0.009	0.001	0.06	0.3	0.04	0.07	<0.5	<0.5
W443454		1	18.4	2.00	72	2.3	0.63	<0.005	0.016	0.002	0.12	0.8	0.04	0.24	<0.5	<0.5
W443455		1	4.4	0.45	128	1.1	0.15	<0.005	0.005	<0.001	<0.05	0.2	0.01	0.04	<0.5	<0.5
W443456		1	3.6	0.38	83	4.2	1.17	<0.005	0.007	0.002	0.24	1.2	0.08	0.21	<0.5	<0.5
W443457		4	4.6	0.48	126	0.5	0.22	<0.005	0.007	<0.001	<0.05	<0.2	0.02	0.04	<0.5	<0.5
W443458		1	4.7	0.52	129	0.4	0.04	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	0.04	<0.5	<0.5
W443459		2	4.6	0.46	119	0.6	0.05	<0.005	0.007	0.001	<0.05	<0.2	0.01	0.05	<0.5	<0.5
W443460		1	22.9	2.46	83	0.3	0.06	<0.005	0.015	0.002	0.08	0.4	0.01	0.15	<0.5	0.7
W443461		1	22.6	2.27	68	<0.1	0.05	<0.005	0.016	0.001	0.07	0.3	0.02	0.03	<0.5	0.6
W443462		1	24.7	2.76	75	0.2	0.09	<0.005	0.016	0.001	0.08	0.4	0.02	0.06	<0.5	0.7
W443463		1	24.8	2.61	75	0.2	0.04	<0.005	0.012	0.001	0.07	0.2	0.01	0.05	<0.5	<0.5
W443464		3	20.2	2.25	59	0.5	0.11	0.005	0.016	<0.001	0.07	0.5	0.03	0.15	<0.5	0.8
W443465		2	8.3	0.80	126	0.5	0.07	<0.005	0.009	<0.001	<0.05	<0.2	0.01	0.07	<0.5	<0.5
W443466		2	3.9	0.38	122	0.2	0.02	<0.005	0.005	<0.001	<0.05	<0.2	0.02	0.03	<0.5	<0.5
W443467		1	4.0	0.41	122	1.1	0.22	0.005	0.005	0.001	0.19	0.5	0.05	0.12	<0.5	<0.5
W443468		4	13.0	1.18	90	3.9	1.86	<0.005	0.064	0.005	0.33	5.3	1.38	0.10	2.1	0.9

***** 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: 5-FEB-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18012298

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
W443431		1	1	20	<1	1	<2	<1	29	0.002	<0.005	<0.001	0.003
W443432		62	147	10	1	216	5	19	100	0.003	0.007	0.014	0.136
W443433		66	153	10	1	218	8	18	97	0.004	0.007	0.015	0.151
W443434		67	156	10	<1	234	8	22	99	0.003	0.007	0.014	0.165
W443435		64	160	10	1	226	3	22	99	0.004	0.005	0.014	0.163
W443436		63	163	10	1	204	9	21	101	0.002	0.007	0.016	0.154
W443437		65	166	10	1	215	2	23	104	0.003	0.007	0.016	0.137
W443438		62	164	10	1	206	4	25	100	0.003	0.007	0.015	0.166
W443439		63	169	10	1	206	5	24	103	0.004	0.006	0.016	0.169
W443440		64	182	20	1	202	8	25	132	0.004	0.006	0.017	0.231
W443441		65	188	10	1	201	5	28	109	0.005	0.006	0.018	0.164
W443442		61	202	10	1	173	7	31	130	0.004	0.006	0.018	0.153
W443443		58	208	10	1	143	3	33	130	0.005	<0.005	0.019	0.131
W443444		61	192	10	1	177	7	31	119	0.005	0.006	0.018	0.127
W443445		58	185	20	1	173	8	31	115	0.005	0.005	0.019	0.161
W443446		61	194	20	1	180	5	33	115	0.004	0.006	0.019	0.160
W443447		61	194	20	1	184	4	33	131	0.003	0.005	0.020	0.181
W443448		53	159	50	1	169	3	33	118	0.004	0.005	0.019	0.232
W443449		59	232	20	1	128	8	38	136	0.005	<0.005	0.022	0.146
W443450		53	289	30	2	114	6	36	106	0.006	<0.005	0.021	0.215
W443451		157	5750	40	3	2230	10	26	76	0.119	0.688	0.374	11.60
W443452		46	797	40	9	51	9	10	535	0.014	<0.005	<0.001	0.346
W443453		50	157	30	2	31	12	4	211	0.001	<0.005	<0.001	0.289
W443454		88	404	60	1	83	13	35	73	0.005	0.010	0.009	0.588
W443455		15	20	50	1	15	9	3	10	<0.001	<0.005	<0.001	0.238
W443456		93	464	80	3	55	20	2	9	0.005	<0.005	0.009	0.030
W443457		12	7	40	2	17	7	3	40	<0.001	<0.005	<0.001	0.056
W443458		7	8	40	1	11	5	3	14	<0.001	<0.005	<0.001	0.015
W443459		8	9	40	1	10	6	3	37	<0.001	<0.005	<0.001	0.037
W443460		49	121	40	1	75	14	42	169	0.004	<0.005	0.001	0.278
W443461		48	152	30	<1	72	3	44	100	0.033	<0.005	<0.001	0.141
W443462		54	363	40	1	72	7	43	98	0.048	<0.005	<0.001	0.413
W443463		48	84	30	1	74	7	45	92	0.006	<0.005	<0.001	0.164
W443464		46	195	50	<1	67	10	43	198	0.004	<0.005	<0.001	0.396
W443465		16	35	40	1	25	27	9	269	<0.001	<0.005	0.001	0.074
W443466		6	1	30	1	10	8	3	5	<0.001	<0.005	<0.001	0.012
W443467		59	308	40	2	16	39	3	50	0.003	<0.005	<0.001	0.535
W443468		117	4570	20	4	4490	26	12	107	0.118	0.328	0.655	5.04

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Finalized Date: 5-FEB-2018
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CERTIFICATE OF ANALYSIS TB18012298

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		