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-FEB-2018
Account: NAPEHZEU

CERTIFICATE TB18014788

Project: Gfields

P.O. No.: 178845

This report is for 78 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 21-JAN-2018.

The following have access to data associated with this certificate:

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

SAMPLE PREPARATION

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

ANALYTICAL PROCEDURES

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

To: **NORTH AMERICAN PALLADIUM EXPLORATION**
ATTN: DAVID BENSON
556 TENTH AVE.
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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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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
W443859		1.45	20.8	0.32	0.21	25.9	19.95	0.13	0.11	<0.01	0.01	0.05	0.02	0.01	0.01	32.1
W443860		0.04	41.4	8.84	15.30	15.60	10.55	0.62	0.25	0.11	0.69	0.14	0.13	<0.01	0.03	3.70
W443861		2.32	70.4	11.65	3.62	6.99	1.11	1.02	1.77	<0.01	0.25	0.11	0.10	0.01	0.03	2.33
W443862		2.04	75.0	13.10	2.70	3.72	0.82	1.71	1.86	<0.01	0.27	0.09	0.11	0.01	0.04	1.12
W443863		2.29	74.2	13.55	2.82	3.65	0.72	1.74	2.09	<0.01	0.28	0.09	0.11	0.01	0.04	1.37
W443864		2.20	72.3	14.45	2.79	3.80	0.75	1.89	2.35	<0.01	0.31	0.08	0.10	0.01	0.05	1.33
W443865		2.33	73.1	14.10	2.85	3.25	0.90	1.37	2.75	<0.01	0.30	0.08	0.10	0.01	0.05	1.45
W443866		1.97	65.0	9.07	6.73	12.25	1.55	0.66	0.77	<0.01	0.19	0.25	0.07	0.01	0.02	3.00
W443867		2.01	73.2	13.25	3.09	3.58	1.22	1.20	2.20	<0.01	0.28	0.10	0.11	0.01	0.05	1.48
W443868		2.13	73.8	13.70	2.76	3.40	0.66	2.00	2.07	<0.01	0.28	0.08	0.10	0.02	0.05	1.40
W443869		2.20	78.1	12.35	2.30	2.52	0.43	2.37	1.83	<0.01	0.26	0.07	0.09	0.02	0.04	1.27
W443870		1.96	75.0	13.05	2.65	3.44	0.48	2.94	1.38	<0.01	0.27	0.08	0.10	0.03	0.04	1.20
W443871		2.13	74.7	13.25	2.93	3.26	0.51	3.14	1.37	<0.01	0.27	0.10	0.11	0.03	0.04	1.41
W443872		2.23	72.7	13.20	2.59	2.93	0.51	3.24	1.44	<0.01	0.27	0.09	0.10	0.02	0.03	1.35
W443873		2.27	76.0	13.35	2.56	2.94	0.53	3.12	1.56	<0.01	0.28	0.08	0.11	0.02	0.04	1.25
W443874		2.33	73.3	12.75	2.24	2.77	0.58	2.77	1.94	<0.01	0.27	0.07	0.10	0.01	0.04	1.41
W443875		2.31	73.5	14.00	2.52	2.91	0.58	3.49	1.93	<0.01	0.29	0.07	0.10	0.02	0.05	1.08
W443876		2.16	73.8	13.65	3.05	3.12	0.57	3.56	1.53	<0.01	0.28	0.08	0.10	0.02	0.04	1.20
W443877		2.39	64.7	11.60	12.35	4.24	1.46	1.77	1.21	<0.01	0.24	0.46	0.10	0.02	0.04	2.40
W443878		2.30	61.5	12.30	11.45	6.19	1.83	1.24	1.11	0.01	0.35	0.37	0.08	0.02	0.03	2.78
W443879		0.04	48.0	12.95	21.3	6.48	6.83	2.21	0.64	0.03	1.24	0.19	0.16	0.03	0.02	1.15
W443880		2.43	72.0	13.60	4.65	4.27	1.12	3.08	1.33	0.01	0.36	0.13	0.10	0.02	0.03	1.29
W443881		2.74	76.8	12.60	2.85	2.88	0.54	3.30	1.31	<0.01	0.26	0.08	0.10	0.02	0.03	1.12
W443882		1.95	76.0	12.30	3.79	2.99	0.65	3.12	1.26	<0.01	0.25	0.13	0.10	0.01	0.03	1.14
W443883		2.35	72.7	11.90	6.78	3.11	0.85	2.15	1.81	<0.01	0.25	0.19	0.09	0.01	0.04	1.99
W443884		2.22	74.4	11.50	5.80	2.99	0.68	2.25	1.48	<0.01	0.24	0.08	0.08	0.01	0.04	1.97
W443885		2.26	74.7	13.10	2.80	2.58	0.56	2.83	1.83	<0.01	0.28	0.07	0.10	0.01	0.05	1.07
W443886		2.26	76.7	11.45	3.08	3.11	0.44	2.39	1.42	<0.01	0.23	0.07	0.09	0.02	0.03	1.13
W443887		2.21	76.5	12.10	2.93	3.25	0.41	2.74	1.42	<0.01	0.26	0.07	0.08	0.01	0.03	1.18
W443888		2.21	75.4	11.95	3.55	2.69	0.58	2.68	1.37	<0.01	0.25	0.08	0.08	0.01	0.03	1.01
W443889		2.11	73.8	12.50	2.83	2.82	0.50	2.61	1.62	<0.01	0.26	0.06	0.10	0.02	0.04	1.17
W443890		2.19	75.8	11.90	2.61	2.74	0.53	2.41	1.55	<0.01	0.24	0.06	0.09	0.01	0.04	1.03
W443891		2.14	75.5	12.30	2.31	2.45	0.51	2.78	1.87	<0.01	0.24	0.07	0.10	0.02	0.04	1.07
W443892		2.23	74.9	12.00	3.01	1.74	0.82	2.53	1.82	<0.01	0.25	0.08	0.09	0.01	0.04	1.01
W443893		2.24	73.2	11.60	7.00	1.88	1.29	2.24	1.60	<0.01	0.25	0.14	0.09	0.01	0.03	1.94
W443894		2.51	73.3	12.75	5.32	2.67	1.45	2.33	1.42	<0.01	0.27	0.11	0.09	0.01	0.03	1.76
W443895		2.48	70.4	11.90	4.96	4.40	2.24	1.81	1.27	<0.01	0.26	0.16	0.09	0.01	0.03	2.03
W443896		2.56	76.8	13.30	3.07	1.64	0.91	2.81	1.74	<0.01	0.31	0.06	0.08	0.01	0.04	1.21
W443897		2.72	74.0	13.50	3.48	1.28	1.04	2.82	1.87	<0.01	0.33	0.16	0.07	0.01	0.05	1.18
W443898		2.37	73.7	13.50	2.92	1.21	0.95	3.05	1.78	<0.01	0.31	0.05	0.09	0.01	0.04	1.16

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Finalized Date: 8-FEB-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18014788

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
W443859		99.62	8.83	0.03	117.0	1.9	<10	0.63	0.09	0.09	<0.03	0.5	0.08	<5	<0.2	0.02
W443860		97.36	0.24	2.44	295	21.1	810	0.42	2.76	1.54	0.80	10.8	2.68	<5	2.0	0.54
W443861		99.39	0.55	0.45	301	48.8	10	1.35	1.16	0.55	0.84	15.3	1.87	<5	3.1	0.20
W443862		100.55	0.05	0.20	320	49.3	20	1.57	0.94	0.46	0.62	16.9	1.39	<5	3.3	0.17
W443863		100.67	0.10	0.16	373	50.1	20	1.11	1.00	0.50	0.54	17.6	1.39	<5	3.6	0.18
W443864		100.21	0.08	0.13	408	52.6	30	1.02	1.01	0.51	0.68	18.4	1.62	<5	3.6	0.21
W443865		100.31	0.10	0.13	440	49.1	20	1.63	1.03	0.53	0.53	18.5	1.47	<5	3.7	0.19
W443866		99.57	0.93	1.21	151.5	44.7	10	0.84	1.46	0.61	1.45	13.3	2.36	<5	2.4	0.24
W443867		99.77	0.08	0.13	414	47.8	20	2.26	1.09	0.51	0.63	17.0	1.65	<5	3.3	0.19
W443868		100.32	0.07	0.11	457	49.4	10	0.81	0.90	0.48	0.61	16.7	1.49	<5	3.7	0.17
W443869		101.65	0.07	0.13	395	45.6	10	0.68	0.84	0.44	0.58	15.6	1.36	<5	3.1	0.17
W443870		100.66	0.14	0.15	373	47.8	10	0.53	0.90	0.41	0.64	16.3	1.45	<5	3.3	0.16
W443871		101.12	0.14	0.17	350	47.8	20	0.45	0.92	0.44	0.63	16.3	1.53	<5	3.5	0.16
W443872		98.47	0.13	0.16	319	48.2	10	0.53	0.89	0.50	0.56	16.5	1.52	<5	3.2	0.17
W443873		101.84	0.11	0.16	348	49.8	20	0.55	0.92	0.47	0.67	17.7	1.59	<5	3.3	0.17
W443874		98.25	0.10	0.14	391	48.8	20	0.73	0.88	0.41	0.57	16.2	1.44	<5	3.5	0.14
W443875		100.54	0.12	0.17	446	51.1	10	0.77	1.03	0.46	0.69	18.0	1.43	<5	3.6	0.18
W443876		101.00	0.14	0.13	393	52.0	20	0.72	0.99	0.51	0.64	17.5	1.63	<5	3.6	0.20
W443877		100.59	0.08	2.53	341	50.3	20	1.51	1.16	0.63	0.71	15.7	1.66	<5	3.0	0.22
W443878		99.26	0.11	2.09	335	43.3	40	1.62	1.52	0.89	0.65	17.0	1.78	<5	2.7	0.29
W443879		101.23	0.09	1.75	244	27.9	250	0.95	2.62	1.45	1.14	16.7	3.07	<5	2.6	0.53
W443880		101.99	0.11	0.27	322	42.5	40	0.79	1.23	0.71	0.62	17.6	1.62	<5	3.0	0.25
W443881		101.89	0.11	0.14	353	52.2	20	0.63	0.98	0.48	0.65	18.6	1.76	<5	3.3	0.20
W443882		101.77	0.12	0.36	328	44.7	10	0.93	0.95	0.51	0.63	16.6	1.57	<5	3.3	0.19
W443883		101.87	0.09	1.75	345	43.7	10	1.13	1.01	0.49	0.54	15.4	1.44	<5	2.9	0.15
W443884		101.52	0.07	1.90	357	42.2	10	0.79	0.82	0.49	0.52	15.1	1.41	<5	3.0	0.15
W443885		99.98	0.11	0.20	480	47.6	20	0.73	0.96	0.47	0.69	17.5	1.58	<5	3.4	0.17
W443886		100.16	0.11	0.38	317	46.3	10	0.64	0.91	0.47	0.65	15.9	1.39	<5	2.7	0.19
W443887		100.98	0.14	0.22	320	45.8	20	0.58	0.98	0.51	0.67	17.4	1.46	<5	3.2	0.19
W443888		99.68	0.08	0.15	304	41.9	10	0.83	0.94	0.46	0.54	15.2	1.38	<5	2.8	0.16
W443889		98.33	0.06	0.17	410	45.5	10	0.69	0.85	0.41	0.55	15.8	1.40	<5	3.0	0.16
W443890		99.01	0.07	0.17	349	39.8	20	0.78	0.78	0.44	0.48	15.2	1.33	<5	3.0	0.16
W443891		99.26	0.10	0.06	474	45.7	20	0.88	1.01	0.47	0.60	17.6	1.51	<5	3.4	0.19
W443892		98.30	0.03	0.19	335	39.9	10	1.02	0.80	0.40	0.52	14.6	1.30	<5	2.7	0.15
W443893		101.27	0.03	1.83	324	47.4	10	1.30	0.92	0.47	0.55	16.0	1.48	<5	3.1	0.17
W443894		101.51	0.05	0.93	293	50.0	10	1.17	0.95	0.45	0.60	16.7	1.57	<5	3.2	0.18
W443895		99.56	0.21	0.63	285	48.6	10	1.15	1.11	0.59	0.82	17.3	1.75	<5	3.3	0.20
W443896		101.98	0.04	0.22	426	57.0	20	1.32	1.02	0.49	0.69	19.0	1.89	<5	3.8	0.18
W443897		99.79	0.01	0.18	468	53.7	20	1.60	1.00	0.49	0.66	19.0	1.74	<5	3.9	0.18
W443898		98.77	0.02	0.16	371	49.3	10	1.34	0.81	0.34	0.58	17.5	1.51	<5	3.6	0.15

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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
W443859		1.4	0.01	<0.2	0.6	0.19	2.3	0.12	<1	133.0	<0.1	0.01	0.20	0.01	0.34	5
W443860		10.2	0.22	6.1	11.2	2.62	4.8	2.53	2	66.8	0.4	0.44	2.11	0.21	1.01	187
W443861		26.2	0.06	3.8	17.0	5.03	39.0	2.76	<1	115.0	0.3	0.24	4.33	0.07	1.08	28
W443862		26.7	0.07	4.2	16.5	5.13	45.8	2.38	1	115.0	0.3	0.18	4.94	0.07	1.05	32
W443863		26.6	0.06	4.3	17.5	5.15	49.9	2.43	1	129.5	0.3	0.18	5.04	0.06	0.91	32
W443864		28.5	0.07	4.5	18.4	5.30	52.8	2.76	<1	124.5	0.4	0.21	5.20	0.06	0.91	37
W443865		26.4	0.07	4.7	16.6	5.02	59.9	2.38	<1	110.5	0.4	0.20	5.48	0.06	0.86	35
W443866		23.4	0.07	2.8	18.6	5.02	18.7	3.23	<1	120.0	0.2	0.28	3.26	0.07	0.77	29
W443867		25.8	0.07	4.3	16.1	4.98	58.8	2.36	<1	130.5	0.3	0.21	4.80	0.07	1.31	30
W443868		26.7	0.06	4.3	16.8	5.13	45.7	2.30	2	154.5	0.3	0.19	4.94	0.06	0.86	31
W443869		24.9	0.05	4.1	15.7	4.77	39.9	2.35	<1	158.5	0.3	0.16	4.90	0.06	0.82	26
W443870		26.0	0.05	4.2	16.2	5.05	33.5	2.30	<1	212	0.3	0.20	4.99	0.05	0.93	28
W443871		25.9	0.04	4.4	16.6	5.08	32.5	2.44	<1	220	0.4	0.18	5.15	0.06	1.12	29
W443872		26.3	0.03	4.5	16.6	5.10	33.5	2.20	2	207	0.4	0.19	5.03	0.04	0.98	29
W443873		26.8	0.05	4.6	16.5	5.29	38.6	2.40	<1	194.0	0.4	0.18	5.34	0.05	1.06	29
W443874		26.2	0.04	4.4	16.7	5.06	45.8	2.26	<1	150.5	0.3	0.17	5.10	0.06	1.04	29
W443875		27.8	0.05	4.6	17.0	5.31	43.3	2.48	1	179.0	0.4	0.21	5.46	0.05	1.12	31
W443876		28.3	0.04	4.6	17.7	5.52	38.9	2.46	<1	213	0.4	0.21	5.55	0.06	0.98	33
W443877		28.3	0.08	3.9	16.6	5.19	32.1	2.47	1	184.0	0.3	0.20	4.72	0.07	1.14	35
W443878		24.1	0.12	3.7	15.6	4.59	28.6	2.54	<1	196.5	0.3	0.26	4.07	0.12	0.95	85
W443879		12.8	0.17	7.6	14.3	3.56	17.6	3.17	4	272	0.5	0.46	1.73	0.19	0.94	129
W443880		23.1	0.08	4.0	15.1	4.47	33.7	2.31	1	192.5	0.3	0.23	4.35	0.10	0.86	66
W443881		28.1	0.06	4.6	17.4	5.35	37.6	2.60	1	191.0	0.4	0.20	5.29	0.06	1.13	32
W443882		23.9	0.06	4.3	15.5	4.76	32.9	2.47	<1	159.5	0.3	0.19	4.76	0.05	1.03	30
W443883		24.2	0.07	3.8	15.3	4.71	40.6	2.18	<1	136.5	0.3	0.18	4.56	0.06	0.98	30
W443884		22.5	0.05	4.0	14.5	4.50	37.6	2.07	<1	133.5	0.3	0.16	4.41	0.06	0.91	28
W443885		25.1	0.06	4.6	16.6	5.00	38.3	2.39	<1	154.5	0.4	0.20	5.24	0.06	1.00	29
W443886		25.1	0.05	3.7	16.1	4.98	29.6	2.17	<1	132.0	0.3	0.18	4.38	0.07	1.25	25
W443887		24.9	0.05	4.2	15.9	4.86	30.3	2.31	<1	145.0	0.3	0.21	4.89	0.05	0.93	28
W443888		22.2	0.04	3.8	14.8	4.45	31.8	2.24	<1	134.5	0.3	0.18	4.54	0.05	0.93	28
W443889		24.6	0.03	4.2	15.9	4.88	33.2	2.23	<1	154.0	0.3	0.18	4.81	0.05	0.85	27
W443890		21.3	0.05	3.7	13.5	4.14	31.5	1.85	1	122.5	0.3	0.16	4.34	0.04	0.88	24
W443891		24.7	0.05	4.4	15.8	4.75	42.4	2.28	1	179.0	0.4	0.20	4.93	0.06	0.99	29
W443892		21.9	0.03	3.8	13.7	4.24	33.8	2.05	<1	114.0	0.3	0.17	4.29	0.04	0.85	25
W443893		25.9	0.05	3.8	15.8	4.94	36.8	2.32	1	118.5	0.3	0.19	4.85	0.05	1.04	40
W443894		27.0	0.06	4.3	16.6	5.26	33.9	2.37	<1	122.5	0.3	0.19	4.96	0.05	1.15	33
W443895		26.8	0.07	4.5	16.8	5.10	38.0	2.56	1	121.0	0.4	0.21	5.22	0.07	1.36	37
W443896		30.9	0.04	4.5	19.3	6.02	39.2	2.72	1	141.0	0.3	0.22	6.27	0.06	0.78	38
W443897		27.9	0.04	4.2	18.6	5.67	36.7	2.74	<1	147.0	0.3	0.22	6.20	0.04	0.65	40
W443898		26.5	0.03	2.4	17.4	5.29	33.4	2.45	<1	136.0	0.1	0.18	5.37	0.04	0.52	41

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

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

Finalized Date: 8-FEB-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18014788

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
W443859		1	0.7	0.08	6	1.1	0.03	0.009	<0.005	<0.001	0.09	<0.2	<0.01	0.09	<0.5	<0.5
W443860		1	14.7	1.51	79	41.1	0.32	0.158	0.056	0.016	1.53	13.2	1.34	0.06	2.7	1.3
W443861		1	6.4	0.45	129	0.4	0.06	<0.005	0.007	<0.001	0.05	<0.2	0.01	0.08	<0.5	<0.5
W443862		2	5.0	0.46	137	0.3	0.01	<0.005	0.006	0.001	0.05	<0.2	<0.01	0.09	<0.5	<0.5
W443863		1	5.1	0.38	150	0.4	0.02	0.005	0.006	<0.001	<0.05	<0.2	<0.01	0.08	<0.5	<0.5
W443864		1	5.3	0.42	143	0.4	0.04	<0.005	0.006	0.001	<0.05	<0.2	0.01	0.12	<0.5	<0.5
W443865		7	5.3	0.42	149	0.2	0.03	<0.005	0.005	0.001	<0.05	<0.2	0.01	0.12	<0.5	<0.5
W443866		1	7.8	0.49	98	0.7	0.10	<0.005	0.012	<0.001	0.05	0.4	0.06	0.11	<0.5	<0.5
W443867		1	5.6	0.45	134	0.4	0.02	<0.005	0.008	<0.001	<0.05	<0.2	0.01	0.15	<0.5	<0.5
W443868		1	5.1	0.41	151	0.3	0.02	<0.005	0.005	<0.001	<0.05	<0.2	0.01	0.07	<0.5	<0.5
W443869		<1	4.5	0.42	127	0.3	0.01	<0.005	0.005	<0.001	<0.05	<0.2	<0.01	0.07	<0.5	<0.5
W443870		1	4.6	0.36	135	0.4	0.01	<0.005	0.008	<0.001	<0.05	<0.2	<0.01	0.08	<0.5	<0.5
W443871		<1	4.7	0.40	141	0.3	0.01	<0.005	0.006	<0.001	<0.05	<0.2	0.01	0.07	<0.5	<0.5
W443872		<1	4.8	0.45	136	0.3	<0.01	<0.005	0.008	<0.001	<0.05	<0.2	0.01	0.07	<0.5	<0.5
W443873		1	4.9	0.43	137	0.3	<0.01	<0.005	0.007	<0.001	<0.05	<0.2	0.01	0.07	<0.5	<0.5
W443874		<1	4.4	0.40	140	0.5	0.01	<0.005	0.006	<0.001	<0.05	<0.2	0.01	0.07	<0.5	<0.5
W443875		1	4.7	0.46	151	0.4	<0.01	<0.005	0.009	0.001	<0.05	<0.2	<0.01	0.11	<0.5	<0.5
W443876		1	5.1	0.51	155	0.3	0.01	<0.005	0.010	<0.001	<0.05	<0.2	0.01	0.10	<0.5	<0.5
W443877		1	6.4	0.62	127	0.5	0.03	<0.005	0.006	0.001	0.05	<0.2	0.02	0.17	<0.5	<0.5
W443878		1	8.4	0.87	112	0.6	0.12	<0.005	0.007	<0.001	0.06	0.2	0.02	0.16	<0.5	0.5
W443879		4	13.8	1.39	108	4.1	0.75	0.014	0.067	0.005	0.36	4.9	0.53	0.11	1.9	1.1
W443880		<1	6.8	0.66	124	0.6	0.03	<0.005	0.008	0.001	0.05	<0.2	0.02	0.12	<0.5	<0.5
W443881		1	5.3	0.44	144	0.4	0.03	<0.005	0.008	<0.001	<0.05	<0.2	0.01	0.05	<0.5	<0.5
W443882		1	5.3	0.47	140	0.4	0.03	<0.005	0.008	<0.001	<0.05	<0.2	0.01	0.09	<0.5	<0.5
W443883		1	5.1	0.51	119	0.5	0.08	<0.005	0.006	0.001	<0.05	<0.2	0.07	0.15	<0.5	<0.5
W443884		1	4.8	0.47	120	0.8	0.15	<0.005	0.005	<0.001	0.06	<0.2	0.05	0.14	<0.5	<0.5
W443885		5	5.1	0.40	142	0.4	0.02	<0.005	0.005	0.001	<0.05	<0.2	0.01	0.09	<0.5	<0.5
W443886		1	4.7	0.41	117	0.5	0.04	<0.005	0.007	<0.001	<0.05	<0.2	0.01	0.07	<0.5	<0.5
W443887		1	5.2	0.46	127	0.4	0.03	0.006	0.007	<0.001	<0.05	<0.2	0.02	0.06	<0.5	<0.5
W443888		<1	4.7	0.40	121	0.3	0.02	<0.005	0.008	<0.001	<0.05	<0.2	<0.01	0.09	<0.5	<0.5
W443889		1	4.7	0.43	129	0.4	0.03	<0.005	0.005	<0.001	<0.05	<0.2	0.01	0.07	<0.5	<0.5
W443890		1	4.3	0.36	127	0.4	0.02	<0.005	0.006	<0.001	<0.05	<0.2	<0.01	0.06	<0.5	<0.5
W443891		1	5.3	0.55	139	0.3	0.01	<0.005	<0.005	<0.001	<0.05	<0.2	0.01	0.06	<0.5	<0.5
W443892		1	4.0	0.39	118	0.3	0.01	<0.005	0.005	<0.001	<0.05	<0.2	0.01	0.07	<0.5	<0.5
W443893		<1	4.7	0.42	132	0.4	0.04	<0.005	0.008	<0.001	<0.05	<0.2	0.01	0.13	<0.5	<0.5
W443894		1	5.1	0.48	137	0.5	0.04	<0.005	0.010	0.001	<0.05	<0.2	<0.01	0.10	<0.5	<0.5
W443895		1	6.3	0.59	136	0.6	0.01	<0.005	0.008	<0.001	<0.05	<0.2	0.01	0.06	<0.5	<0.5
W443896		<1	5.2	0.40	166	0.2	0.02	<0.005	0.005	<0.001	<0.05	<0.2	0.01	0.07	<0.5	<0.5
W443897		<1	4.8	0.35	166	0.3	0.01	<0.005	0.007	<0.001	<0.05	<0.2	0.01	0.10	<0.5	<0.5
W443898		2	4.0	0.30	152	<0.1	0.01	<0.005	0.007	<0.001	<0.05	<0.2	<0.01	0.09	<0.5	<0.5

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

Finalized Date: 8-FEB-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18014788

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
W443859		1	1	20	<1	<1	13	<1	35	<0.001	<0.005	<0.001	0.011
W443860		145	5350	40	3	2080	5	24	73	0.168	0.712	0.368	11.35
W443861		10	12	20	<1	11	5	3	87	<0.001	<0.005	<0.001	0.141
W443862		7	4	20	<1	12	2	3	24	<0.001	<0.005	<0.001	0.039
W443863		7	4	20	<1	11	5	3	23	<0.001	<0.005	<0.001	0.022
W443864		8	8	20	<1	14	6	4	26	<0.001	<0.005	<0.001	0.030
W443865		5	4	20	<1	10	8	4	22	<0.001	<0.005	0.001	0.041
W443866		13	22	10	<1	20	3	4	53	<0.001	<0.005	<0.001	0.358
W443867		7	3	30	<1	11	4	3	21	<0.001	<0.005	0.001	0.018
W443868		6	4	30	<1	9	8	3	9	<0.001	<0.005	<0.001	0.012
W443869		7	9	20	1	15	4	3	7	<0.001	<0.005	<0.001	0.004
W443870		7	4	10	<1	11	6	3	11	<0.001	<0.005	<0.001	0.004
W443871		8	6	20	<1	14	8	3	26	<0.001	<0.005	<0.001	0.005
W443872		5	3	20	<1	9	4	3	19	<0.001	<0.005	<0.001	0.003
W443873		6	3	20	<1	9	7	3	24	<0.001	<0.005	<0.001	<0.003
W443874		8	3	10	1	13	7	3	28	<0.001	<0.005	<0.001	0.005
W443875		8	3	10	<1	12	4	3	23	<0.001	<0.005	<0.001	<0.003
W443876		7	2	10	<1	11	4	4	15	<0.001	<0.005	<0.001	<0.003
W443877		11	12	30	1	21	8	4	40	<0.001	<0.005	0.001	0.059
W443878		15	11	30	1	29	7	11	75	<0.001	<0.005	<0.001	0.101
W443879		109	4480	20	4	4200	21	12	100	0.137	0.297	0.632	4.68
W443880		12	14	20	<1	23	6	8	24	<0.001	<0.005	<0.001	0.061
W443881		6	4	20	<1	7	3	3	30	<0.001	<0.005	<0.001	0.005
W443882		8	3	20	<1	12	5	3	18	<0.001	<0.005	<0.001	0.014
W443883		9	17	20	1	16	11	4	40	<0.001	<0.005	<0.001	0.083
W443884		13	30	20	1	15	9	3	32	<0.001	<0.005	<0.001	0.062
W443885		8	3	20	<1	11	3	3	12	<0.001	<0.005	<0.001	0.006
W443886		9	9	20	1	13	7	3	50	<0.001	<0.005	<0.001	0.020
W443887		7	7	20	<1	11	5	3	25	<0.001	<0.005	<0.001	0.003
W443888		6	3	20	<1	8	2	3	19	<0.001	<0.005	<0.001	<0.003
W443889		7	4	20	<1	10	5	3	22	<0.001	<0.005	<0.001	0.005
W443890		6	4	20	<1	9	5	3	12	<0.001	<0.005	<0.001	0.005
W443891		5	1	20	1	6	4	3	26	<0.001	<0.005	<0.001	<0.003
W443892		14	2	20	2	17	5	3	18	<0.001	<0.005	<0.001	0.009
W443893		17	10	30	1	19	7	4	27	<0.001	<0.005	<0.001	0.066
W443894		8	11	30	1	19	6	4	47	<0.001	<0.005	<0.001	0.048
W443895		10	4	30	1	15	10	4	56	<0.001	<0.005	<0.001	0.032
W443896		5	3	20	<1	11	4	3	13	<0.001	<0.005	<0.001	0.005
W443897		6	3	20	1	14	5	3	23	<0.001	<0.005	<0.001	0.008
W443898		7	2	20	<1	13	8	4	15	<0.001	<0.005	<0.001	0.003

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

Finalized Date: 8-FEB-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18014788

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
W443899		1.26	19.45	0.07	0.12	27.0	21.5	0.03	0.02	<0.01	<0.01	0.05	0.01	0.01	0.04	31.5
W443900		2.62	73.0	12.85	5.85	1.18	1.11	2.91	2.21	<0.01	0.29	0.06	0.09	0.01	0.05	2.11
W443901		2.47	49.3	15.15	10.70	9.12	5.91	2.60	1.75	0.03	1.10	0.20	0.63	0.09	0.07	1.61
W443902		2.52	74.0	13.35	3.36	1.68	1.06	3.47	1.60	<0.01	0.29	0.06	0.10	0.01	0.03	1.22
W443903		2.45	73.8	13.25	2.33	1.66	0.87	3.40	1.66	<0.01	0.30	0.06	0.09	0.01	0.04	0.96
W443904		1.69	76.3	11.75	3.51	1.98	1.34	3.33	1.29	0.01	0.29	0.06	0.11	0.01	0.03	1.18
W443905		1.62	49.4	13.60	10.60	10.20	7.83	2.58	0.99	0.07	1.01	0.19	0.58	0.09	0.05	1.81
W443906		1.92	49.0	13.15	11.15	10.70	8.37	2.42	1.18	0.08	1.07	0.19	0.57	0.09	0.06	2.14
W443907		2.13	45.7	11.70	11.10	10.20	9.06	2.13	1.23	0.09	0.97	0.18	0.51	0.08	0.06	1.31
W443908		3.06	74.9	13.75	3.00	2.12	0.76	4.63	1.13	<0.01	0.30	0.08	0.10	0.02	0.02	0.80
W443909		2.59	70.4	13.95	4.53	4.00	1.68	3.55	0.87	0.01	0.38	0.10	0.08	0.02	0.02	1.58
W443910		2.47	73.7	13.90	3.24	2.40	0.88	4.79	0.55	<0.01	0.30	0.07	0.10	0.02	0.01	1.10
W443911		2.64	66.7	14.10	5.63	4.61	2.07	3.34	0.90	0.01	0.42	0.10	0.08	0.02	0.03	1.96
W443912		1.63	59.0	14.15	9.02	5.45	4.73	2.08	0.75	0.02	0.60	0.16	0.08	0.01	0.02	4.02
W443913		1.77	45.9	14.85	13.05	9.66	7.01	0.84	0.61	0.03	0.81	0.23	0.06	0.02	0.02	5.88
W443914		1.82	51.6	14.75	11.60	8.18	6.78	1.34	1.05	0.03	0.76	0.22	0.06	0.01	0.03	2.60
W443915		2.80	49.7	14.90	13.00	9.32	7.87	1.74	0.44	0.03	0.83	0.23	0.05	0.01	0.01	1.36
W443916		2.58	49.5	14.65	12.75	9.75	7.70	2.26	0.21	0.03	0.83	0.20	0.07	0.01	0.01	0.91
W443917		2.66	48.8	15.00	13.10	10.20	7.47	2.44	0.25	0.03	0.84	0.20	0.06	0.01	0.01	0.87
W443918		2.65	49.1	14.90	12.90	10.05	7.52	2.24	0.25	0.03	0.83	0.19	0.05	0.01	0.01	0.93
W443919		0.04	42.3	9.02	14.90	15.50	10.80	0.62	0.23	0.11	0.69	0.15	0.11	0.01	0.03	3.65
W443920		2.64	49.1	14.60	13.30	9.62	7.88	2.26	0.32	0.03	0.84	0.18	0.06	0.01	0.01	3.75
W443921		2.61	49.6	14.95	12.75	10.15	7.61	2.28	0.24	0.03	0.83	0.18	0.06	0.01	0.01	1.02
W443922		2.58	49.2	14.75	13.40	10.35	7.42	2.49	0.24	0.03	0.82	0.20	0.06	0.01	0.01	0.99
W443923		2.75	49.0	14.60	12.70	10.25	7.44	2.46	0.23	0.03	0.83	0.20	0.06	0.02	0.01	1.12
W443924		2.57	51.0	14.60	12.65	9.26	7.41	2.25	0.55	0.03	0.80	0.20	0.06	0.01	0.01	1.52
W443925		2.94	58.0	14.05	9.03	6.81	5.41	2.81	1.77	0.02	0.58	0.15	0.10	0.01	0.01	1.23
W443926		2.85	49.2	14.80	12.75	10.25	7.50	2.14	0.45	0.03	0.84	0.21	0.06	0.02	0.02	1.31
W443927		2.90	48.5	14.05	12.75	9.82	7.41	2.12	0.58	0.03	0.81	0.22	0.06	0.02	0.02	1.68
W443928		2.65	47.3	14.15	12.50	9.04	7.66	1.69	0.94	0.03	0.79	0.23	0.04	0.02	0.02	4.27
W443929		2.36	44.0	11.35	10.15	10.50	8.81	0.81	0.58	0.11	0.62	0.18	0.14	0.01	0.01	11.65
W443930		2.19	75.2	12.55	2.94	2.09	1.37	1.85	2.20	<0.01	0.28	0.07	0.07	0.01	0.05	2.39
W443931		2.39	73.3	13.60	3.37	2.91	1.26	3.24	1.34	<0.01	0.31	0.07	0.07	0.01	0.03	1.64
W443932		3.06	48.1	14.80	12.10	10.75	7.75	1.62	0.83	0.05	0.66	0.24	0.04	0.01	0.03	1.92
W443933		3.01	47.9	14.40	12.55	10.25	8.06	2.11	0.47	0.05	0.69	0.23	0.04	0.01	0.02	2.08
W443934		2.85	49.8	15.05	11.75	10.60	8.47	2.19	0.33	0.05	0.65	0.23	0.03	0.01	0.01	1.36
W443935		2.25	49.1	14.75	11.95	10.40	8.64	2.09	0.39	0.05	0.67	0.23	0.04	0.01	0.02	1.51
W443936		0.04	47.1	12.60	20.5	6.09	6.63	2.14	0.62	0.03	1.24	0.19	0.15	0.03	0.02	1.12

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

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

Finalized Date: 8-FEB-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18014788

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
W443899		99.80	8.72	0.01	377	0.8	<10	0.26	0.06	0.04	<0.03	0.2	0.05	<5	<0.2	0.01
W443900		101.72	0.01	1.75	540	58.2	20	1.19	1.09	0.47	0.78	18.0	1.87	<5	3.8	0.19
W443901		98.26	0.13	0.27	614	141.0	210	1.68	5.25	2.26	3.23	19.8	9.63	<5	4.9	0.96
W443902		100.23	0.04	0.32	334	47.6	30	1.41	1.05	0.52	0.65	18.1	1.66	<5	3.6	0.17
W443903		98.43	0.05	0.11	333	51.5	20	1.02	0.96	0.45	0.73	17.8	1.55	<5	3.4	0.16
W443904		101.19	0.08	0.51	229	43.1	70	0.93	1.19	0.52	0.74	16.4	1.83	<5	3.1	0.22
W443905		99.00	0.16	0.22	461	131.5	510	0.91	5.31	2.32	3.12	19.5	9.51	<5	4.7	0.96
W443906		100.17	0.33	0.20	564	122.5	550	1.93	5.47	2.27	3.10	19.1	9.38	<5	4.5	0.91
W443907		94.32	0.12	0.21	558	115.0	710	1.14	5.25	2.25	2.92	17.8	9.10	<5	4.2	0.88
W443908		101.61	0.09	0.16	186.5	48.9	20	0.70	1.02	0.48	0.58	18.3	1.59	<5	3.4	0.19
W443909		101.17	0.12	0.34	200	41.5	60	0.75	1.33	0.74	0.67	17.7	1.70	<5	3.1	0.28
W443910		101.06	0.09	0.17	111.5	50.5	20	0.54	0.96	0.52	0.55	18.4	1.60	<5	3.6	0.18
W443911		99.97	0.13	0.68	243	39.5	70	0.72	1.58	0.91	0.59	17.6	1.90	<5	3.2	0.31
W443912		100.09	0.38	0.40	213	20.9	150	1.33	2.17	1.35	0.62	17.2	2.02	<5	2.3	0.43
W443913		98.97	0.76	0.59	141.5	13.4	230	0.91	3.23	2.26	0.82	19.6	2.84	<5	1.3	0.71
W443914		99.01	0.14	0.26	248	12.1	200	1.42	2.91	2.00	0.68	17.8	2.40	<5	1.6	0.65
W443915		99.49	0.06	0.15	122.0	7.1	230	0.74	3.44	2.27	0.74	17.5	2.62	<5	1.3	0.76
W443916		98.88	0.07	0.10	78.1	6.8	230	0.32	3.38	2.08	0.68	16.7	2.59	<5	1.4	0.71
W443917		99.28	0.05	0.11	86.0	6.8	230	0.30	3.35	2.31	0.71	17.0	2.61	<5	1.3	0.73
W443918		99.01	0.06	0.10	75.4	6.8	230	0.34	3.35	2.19	0.68	16.8	2.75	<5	1.4	0.72
W443919		98.12	0.24	2.31	300	19.4	780	0.41	2.85	1.57	0.71	11.3	2.95	<5	2.1	0.55
W443920		101.96	0.05	0.08	84.1	7.4	240	0.46	3.54	2.30	0.77	16.8	3.05	<5	1.6	0.78
W443921		99.72	0.07	0.07	73.6	6.9	240	0.32	3.46	2.17	0.71	17.0	2.83	<5	1.4	0.76
W443922		99.97	0.07	0.12	76.0	6.6	230	0.26	3.25	2.20	0.69	17.1	2.67	<5	1.4	0.69
W443923		98.95	0.06	0.10	90.2	7.0	240	0.26	3.41	2.28	0.75	17.2	2.78	<5	1.5	0.78
W443924		100.35	0.03	0.63	104.0	6.4	220	0.62	3.07	2.01	0.66	17.1	2.50	<5	1.4	0.67
W443925		99.98	0.03	0.09	75.6	5.0	150	1.47	2.22	1.61	0.46	18.2	1.73	<5	1.3	0.56
W443926		99.58	0.07	0.13	136.0	6.9	230	0.64	3.48	2.20	0.71	17.2	2.92	<5	1.4	0.78
W443927		98.07	0.14	0.32	138.0	6.4	210	0.55	2.98	2.06	0.65	15.6	2.54	<5	1.3	0.69
W443928		98.68	0.72	0.61	172.5	6.5	210	1.04	3.20	1.95	0.66	15.9	2.68	<5	1.3	0.71
W443929		98.92	2.21	0.34	130.0	24.8	770	1.94	2.73	1.61	0.82	14.7	2.84	<5	1.5	0.55
W443930		101.07	0.28	0.11	414	48.7	20	2.36	1.01	0.45	0.60	17.6	1.63	<5	3.6	0.17
W443931		101.15	0.16	0.13	307	44.9	30	1.43	1.19	0.57	0.64	17.9	1.67	<5	3.3	0.21
W443932		98.90	0.19	0.47	250	5.2	370	0.88	2.66	1.76	0.60	15.9	2.19	<5	1.1	0.60
W443933		98.86	0.27	0.73	157.0	5.1	340	0.63	2.93	1.82	0.56	15.8	2.28	<5	1.1	0.62
W443934		100.53	0.14	0.26	122.0	5.3	400	0.43	2.77	1.72	0.55	15.8	2.21	<5	1.0	0.61
W443935		99.85	0.16	0.14	130.0	4.9	340	0.39	2.62	1.67	0.55	14.4	2.00	<5	1.0	0.57
W443936		98.46	0.09	1.70	215	25.3	230	0.92	2.51	1.44	1.02	15.5	2.65	<5	2.5	0.51

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

Finalized Date: 8-FEB-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18014788

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
W443899		0.6	<0.01	<0.2	0.3	0.09	0.5	0.07	<1	111.5	<0.1	0.01	0.13	<0.01	0.27	<5
W443900		31.7	0.05	4.5	20.9	6.15	45.6	2.99	<1	138.0	0.3	0.22	6.14	0.05	0.75	48
W443901		61.4	0.27	12.0	74.2	18.40	38.2	13.85	1	771	0.6	1.09	7.12	0.29	1.70	219
W443902		25.2	0.05	4.5	16.6	5.10	38.6	2.50	<1	124.5	0.3	0.21	5.17	0.05	0.84	42
W443903		27.8	0.04	4.7	17.0	5.31	34.8	2.39	1	120.0	0.4	0.19	5.20	0.04	0.88	36
W443904		22.4	0.08	4.4	16.2	4.63	26.2	2.85	<1	118.5	0.4	0.23	4.24	0.09	1.04	42
W443905		56.0	0.25	10.8	70.7	17.40	18.4	14.30	1	706	0.5	1.10	6.02	0.31	1.38	225
W443906		51.7	0.26	10.5	66.7	16.30	24.6	13.45	1	695	0.5	1.13	5.54	0.30	1.29	233
W443907		48.5	0.24	9.3	63.2	15.35	26.1	13.00	1	672	0.5	1.08	5.11	0.29	1.15	230
W443908		25.3	0.07	4.4	16.4	5.04	27.6	2.37	1	151.0	0.4	0.22	4.75	0.07	0.84	38
W443909		21.8	0.11	4.2	14.7	4.35	24.5	2.32	1	175.5	0.3	0.25	4.06	0.11	0.68	75
W443910		27.2	0.07	4.8	16.5	5.21	12.7	2.46	<1	193.0	0.4	0.19	4.85	0.06	0.90	36
W443911		20.3	0.13	4.2	13.5	4.21	24.6	2.43	1	206	0.4	0.28	3.87	0.13	0.67	96
W443912		10.7	0.22	3.4	9.1	2.34	21.2	1.99	1	138.0	0.3	0.35	2.16	0.20	0.46	186
W443913		6.6	0.34	2.1	7.7	1.68	16.9	2.22	<1	163.0	0.1	0.50	0.25	0.33	0.13	287
W443914		5.6	0.30	2.2	6.9	1.62	32.5	2.08	<1	121.5	0.1	0.41	0.76	0.30	0.19	260
W443915		2.7	0.34	2.1	5.8	1.12	11.1	1.85	2	109.0	0.1	0.48	0.24	0.35	0.06	298
W443916		2.5	0.32	2.1	5.4	1.09	3.9	1.93	<1	110.5	0.1	0.45	0.21	0.32	0.06	293
W443917		2.5	0.33	1.9	5.6	1.08	5.3	2.05	<1	119.5	0.1	0.50	0.21	0.32	0.06	304
W443918		2.6	0.33	2.1	5.4	1.07	5.9	2.11	1	113.5	0.1	0.48	0.20	0.33	0.05	298
W443919		9.3	0.22	6.5	10.3	2.51	4.7	2.52	2	64.3	0.4	0.44	1.92	0.21	0.90	181
W443920		2.7	0.36	2.2	5.8	1.16	8.9	2.17	1	126.0	0.1	0.54	0.23	0.35	0.06	300
W443921		2.6	0.35	2.1	5.5	1.10	5.3	1.97	1	117.5	0.1	0.49	0.23	0.32	<0.05	305
W443922		2.5	0.32	2.0	5.3	1.08	5.2	1.98	1	129.0	0.1	0.49	0.19	0.32	<0.05	295
W443923		2.6	0.34	2.2	5.9	1.14	5.1	2.00	<1	158.0	0.1	0.50	0.23	0.34	0.05	301
W443924		2.3	0.32	2.9	5.1	1.01	15.5	1.94	1	127.0	0.2	0.45	0.20	0.29	0.27	283
W443925		2.0	0.28	10.1	3.6	0.73	72.9	1.32	<1	117.5	2.4	0.33	0.52	0.25	2.57	206
W443926		2.6	0.35	2.1	5.6	1.12	11.5	2.03	<1	161.5	0.2	0.49	0.20	0.34	0.05	305
W443927		2.3	0.31	1.9	5.2	1.03	13.7	1.86	<1	173.5	0.1	0.44	0.20	0.30	0.06	279
W443928		2.4	0.32	1.9	5.1	1.02	25.7	1.94	<1	143.5	0.1	0.47	0.20	0.32	0.06	278
W443929		9.6	0.23	2.9	14.0	3.43	16.5	3.15	<1	86.3	0.1	0.47	2.44	0.24	0.54	215
W443930		25.5	0.05	4.0	16.7	5.18	52.1	2.57	<1	116.5	0.3	0.21	4.85	0.07	0.74	34
W443931		23.8	0.09	4.0	15.3	4.68	27.5	2.52	<1	134.5	0.3	0.22	4.32	0.08	0.69	47
W443932		2.0	0.26	1.5	4.2	0.79	21.3	1.67	<1	114.5	0.1	0.40	0.16	0.26	<0.05	276
W443933		1.9	0.28	1.5	4.0	0.86	11.1	1.59	<1	122.0	0.1	0.43	0.12	0.29	0.05	276
W443934		1.9	0.26	1.8	4.6	0.84	7.1	1.51	<1	132.0	0.1	0.41	0.17	0.26	0.11	278
W443935		1.8	0.25	1.7	4.1	0.77	8.1	1.40	<1	115.0	0.1	0.36	0.15	0.23	0.05	259
W443936		11.4	0.20	7.1	12.6	3.14	15.1	2.72	4	245	0.4	0.41	1.45	0.19	0.45	117

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

Finalized Date: 8-FEB-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18014788

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
W443899		<1	0.4	0.04	<2	0.5	0.04	<0.005	<0.005	<0.001	0.06	<0.2	<0.01	0.05	<0.5	<0.5
W443900		1	5.3	0.46	162	0.3	0.02	<0.005	0.008	<0.001	<0.05	<0.2	0.01	0.09	<0.5	<0.5
W443901		1	24.6	1.81	228	1.0	0.07	<0.005	0.014	<0.001	0.06	<0.2	0.02	0.13	<0.5	0.6
W443902		2	5.3	0.50	153	0.2	0.01	<0.005	0.007	<0.001	<0.05	<0.2	0.01	0.08	<0.5	<0.5
W443903		1	4.8	0.39	140	0.3	0.01	<0.005	0.006	<0.001	<0.05	<0.2	<0.01	0.11	<0.5	<0.5
W443904		2	5.6	0.48	130	0.3	0.01	<0.005	0.009	<0.001	<0.05	<0.2	0.01	0.11	<0.5	<0.5
W443905		1	23.9	1.78	213	0.8	0.04	<0.005	0.013	<0.001	0.05	<0.2	<0.01	0.04	<0.5	<0.5
W443906		2	23.5	1.70	199	0.8	0.06	<0.005	0.014	<0.001	0.05	<0.2	<0.01	0.08	<0.5	<0.5
W443907		1	22.0	1.77	184	0.8	0.04	<0.005	0.010	<0.001	<0.05	0.2	<0.01	0.10	<0.5	<0.5
W443908		1	4.9	0.39	144	0.1	0.01	<0.005	0.012	<0.001	<0.05	<0.2	<0.01	0.12	<0.5	<0.5
W443909		1	6.9	0.76	129	0.3	0.01	<0.005	0.010	<0.001	<0.05	0.2	0.01	0.06	<0.5	<0.5
W443910		1	5.0	0.41	148	0.2	<0.01	<0.005	0.008	<0.001	<0.05	<0.2	0.01	0.04	<0.5	<0.5
W443911		2	8.0	0.86	131	0.7	0.02	<0.005	0.007	0.001	<0.05	0.3	0.02	0.04	<0.5	<0.5
W443912		1	11.8	1.40	92	0.3	0.01	<0.005	0.013	0.001	<0.05	0.2	0.01	0.05	<0.5	<0.5
W443913		1	18.3	2.04	50	0.4	0.02	<0.005	0.015	<0.001	<0.05	0.2	0.03	0.07	<0.5	0.6
W443914		1	16.0	1.79	62	0.3	0.01	<0.005	0.010	<0.001	<0.05	0.2	0.02	0.10	<0.5	0.5
W443915		5	18.4	2.21	52	0.1	0.01	<0.005	0.010	0.001	<0.05	0.3	0.02	0.06	<0.5	<0.5
W443916		1	18.1	2.01	50	0.2	<0.01	<0.005	0.008	<0.001	<0.05	0.3	0.02	0.03	<0.5	<0.5
W443917		3	18.5	2.02	49	0.1	<0.01	<0.005	0.009	0.001	<0.05	0.3	0.02	0.02	<0.5	0.5
W443918		4	18.1	1.97	50	0.3	<0.01	<0.005	0.008	0.001	<0.05	0.4	0.02	0.03	<0.5	0.5
W443919		2	14.0	1.40	82	42.1	0.36	0.115	0.057	0.018	1.53	12.8	1.53	0.06	2.8	0.8
W443920		1	19.7	2.21	56	0.2	0.01	<0.005	0.010	<0.001	<0.05	0.4	0.02	0.03	<0.5	<0.5
W443921		5	19.3	2.09	51	0.3	0.01	<0.005	0.007	0.001	<0.05	0.3	0.01	0.02	<0.5	<0.5
W443922		2	18.1	2.06	50	0.4	0.01	0.006	0.008	0.002	<0.05	0.5	0.02	0.02	<0.5	<0.5
W443923		1	18.9	2.14	52	0.3	0.01	0.008	0.007	0.001	<0.05	0.5	0.02	0.02	<0.5	0.5
W443924		3	17.1	1.92	50	1.1	0.02	0.007	0.007	0.002	<0.05	0.8	0.05	0.02	<0.5	0.5
W443925		1	13.0	1.59	42	0.6	0.01	0.005	<0.005	0.001	0.05	0.3	0.01	0.02	<0.5	<0.5
W443926		1	18.6	2.13	52	0.4	<0.01	<0.005	0.005	0.001	<0.05	0.6	0.01	0.02	<0.5	0.5
W443927		2	17.2	1.90	47	0.7	0.01	0.008	0.006	0.001	<0.05	0.4	0.03	0.02	<0.5	0.6
W443928		1	17.2	2.03	48	0.8	0.02	0.007	0.014	0.001	<0.05	0.6	0.04	0.02	<0.5	0.5
W443929		4	14.0	1.39	61	0.5	0.10	0.012	0.033	<0.001	<0.05	0.3	0.05	0.06	<0.5	<0.5
W443930		2	4.7	0.42	152	0.3	0.29	<0.005	<0.005	<0.001	<0.05	<0.2	0.18	0.04	<0.5	<0.5
W443931		4	5.5	0.42	138	0.4	0.18	<0.005	0.006	<0.001	<0.05	0.2	0.10	0.03	<0.5	<0.5
W443932		1	14.9	1.68	38	0.7	0.02	<0.005	0.007	0.001	<0.05	0.7	0.05	0.17	<0.5	0.6
W443933		1	15.4	1.72	38	1.1	0.02	<0.005	0.008	0.001	<0.05	0.6	0.03	0.11	<0.5	<0.5
W443934		1	15.2	1.87	36	0.5	0.01	<0.005	0.005	0.001	<0.05	0.5	0.03	0.14	<0.5	<0.5
W443935		1	14.0	1.58	34	0.4	<0.01	<0.005	0.006	0.001	<0.05	0.4	0.03	0.07	<0.5	<0.5
W443936		3	12.6	1.22	101	4.3	0.86	0.014	0.068	0.006	0.33	5.8	0.64	0.10	2.1	0.9

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

ALS Canada Ltd.

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www.alsglobal.com/geochemistry

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

Finalized Date: 8-FEB-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18014788

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
W443899		<1	1	20	<1	<1	7	<1	23	<0.001	<0.005	<0.001	<0.003
W443900		13	24	20	1	24	13	4	32	<0.001	<0.005	<0.001	0.057
W443901		34	38	30	<1	52	7	22	91	<0.001	<0.005	0.002	0.113
W443902		8	16	20	<1	17	7	4	22	<0.001	<0.005	<0.001	0.037
W443903		10	4	10	<1	13	6	3	19	<0.001	<0.005	<0.001	0.012
W443904		18	32	10	1	28	7	5	36	<0.001	<0.005	<0.001	0.056
W443905		40	59	20	<1	119	6	27	91	<0.001	<0.005	0.003	0.097
W443906		42	59	30	<1	125	4	29	100	<0.001	0.005	0.003	0.106
W443907		47	66	20	1	178	4	31	108	<0.001	<0.005	0.003	0.112
W443908		11	8	10	1	13	5	4	22	<0.001	<0.005	<0.001	0.009
W443909		17	44	20	1	30	3	9	38	<0.001	<0.005	<0.001	0.177
W443910		8	16	10	1	12	3	4	21	<0.001	<0.005	<0.001	0.030
W443911		25	78	20	<1	38	5	12	43	<0.001	<0.005	<0.001	0.408
W443912		35	76	40	<1	78	<2	23	101	<0.001	<0.005	<0.001	0.269
W443913		56	131	50	<1	131	<2	40	152	<0.001	<0.005	0.001	0.344
W443914		50	111	30	1	118	<2	36	120	<0.001	<0.005	0.001	0.262
W443915		51	138	20	<1	131	3	41	135	<0.001	<0.005	<0.001	0.326
W443916		51	150	10	1	129	<2	40	103	<0.001	<0.005	0.001	0.366
W443917		53	148	10	<1	128	<2	42	92	<0.001	<0.005	0.001	0.365
W443918		51	159	10	1	132	<2	41	96	0.001	<0.005	<0.001	0.364
W443919		156	5650	40	3	2180	5	25	77	0.150	0.682	0.370	11.10
W443920		54	164	20	<1	136	<2	41	105	<0.001	<0.005	0.001	0.258
W443921		49	159	10	<1	125	<2	40	89	<0.001	<0.005	<0.001	0.298
W443922		51	165	10	<1	124	<2	40	97	<0.001	<0.005	<0.001	0.359
W443923		50	128	10	<1	124	2	40	96	<0.001	<0.005	<0.001	0.330
W443924		64	118	20	2	120	<2	40	94	<0.001	<0.005	0.001	0.642
W443925		34	58	10	1	83	2	28	68	<0.001	<0.005	<0.001	0.203
W443926		49	133	10	1	127	<2	39	96	<0.001	<0.005	<0.001	0.343
W443927		49	143	10	<1	123	3	40	92	<0.001	<0.005	0.001	0.373
W443928		57	94	30	<1	117	<2	39	97	<0.001	<0.005	<0.001	0.446
W443929		45	42	50	<1	246	<2	32	105	<0.001	<0.005	0.002	0.170
W443930		8	11	20	1	12	<2	3	26	<0.001	<0.005	<0.001	0.022
W443931		9	20	20	<1	14	4	6	29	<0.001	<0.005	0.001	0.039
W443932		54	174	20	<1	166	<2	41	124	<0.001	0.013	0.016	0.544
W443933		51	160	20	<1	153	2	41	112	0.001	0.010	0.015	0.680
W443934		52	104	20	<1	163	<2	40	92	<0.001	0.013	0.017	0.357
W443935		52	97	20	<1	159	<2	39	93	<0.001	0.012	0.016	0.306
W443936		116	4470	20	5	4470	19	12	108	0.057	0.302	0.623	4.81

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CERTIFICATE OF ANALYSIS TB18014788

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		