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: 7-MAR-2018
Account: NAPEHZEU

CERTIFICATE TB18037053

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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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
W870171		0.04	61.8	16.65	6.01	6.27	2.74	3.34	1.51	<0.01	0.51	0.13	0.14	0.06	0.07	1.05
W870172		0.08	41.3	9.06	15.05	15.95	10.80	0.61	0.21	0.11	0.71	0.15	0.13	<0.01	0.03	4.19
W870173		2.32	46.8	14.20	13.00	15.00	4.61	0.88	0.49	0.03	0.94	0.22	0.07	0.01	0.01	2.97
W870174		2.42	50.9	14.30	11.75	15.30	3.36	0.48	0.35	0.02	0.85	0.18	0.07	0.01	<0.01	1.98
W870175		2.31	48.9	13.55	11.70	16.75	3.82	0.50	0.23	0.03	0.88	0.21	0.08	0.01	<0.01	2.49
W870176		2.46	49.0	13.05	12.40	16.75	3.65	0.47	0.33	0.02	0.81	0.23	0.08	0.01	<0.01	2.20
W870177		2.28	61.9	14.80	7.19	11.55	1.95	0.49	0.44	0.01	0.60	0.12	0.08	0.01	0.01	1.83
W870178		2.28	58.0	15.10	9.20	12.25	3.00	0.78	0.45	0.02	0.68	0.15	0.09	0.01	0.01	1.89
W870179		2.52	45.5	14.95	14.60	14.70	5.24	0.78	0.19	0.05	1.03	0.23	0.08	0.01	<0.01	1.21
W870180		2.35	47.5	14.95	14.05	12.35	6.38	1.02	0.29	0.05	1.05	0.21	0.09	<0.01	0.01	1.00
W870181		2.62	47.0	14.15	14.40	14.20	5.94	0.97	0.20	0.04	0.95	0.22	0.06	0.01	0.01	1.39
W870182		2.48	48.5	14.50	14.55	12.55	6.89	1.27	0.29	0.04	0.96	0.24	0.08	0.01	0.01	1.21
W870183		2.22	48.6	14.70	14.75	10.05	7.84	1.55	0.34	0.04	0.96	0.23	0.08	0.01	0.01	0.84
W870184		2.30	47.4	14.50	14.40	11.15	7.59	1.44	0.28	0.04	0.96	0.24	0.05	0.01	0.01	0.95
W870185		2.38	46.6	14.55	14.20	12.10	7.44	1.12	0.25	0.04	0.96	0.23	0.08	0.01	0.01	0.80
W870186		2.22	48.3	15.65	15.20	10.80	7.56	1.34	0.22	0.04	1.05	0.23	0.06	0.01	0.01	0.30
W870187		2.49	48.2	14.60	14.45	9.77	8.36	1.35	0.33	0.04	0.98	0.22	0.06	0.01	<0.01	0.36
W870188		2.46	50.0	14.10	13.40	13.10	6.14	0.90	0.34	0.04	0.95	0.23	0.06	0.01	0.01	1.35
W870189		2.63	49.7	13.55	12.50	16.10	5.23	0.58	0.27	0.04	0.90	0.25	0.05	0.01	0.01	2.51
W870190		2.63	50.4	13.05	11.90	15.35	6.12	0.55	0.26	0.06	0.76	0.23	0.05	0.01	<0.01	2.54
W870191		0.08	47.0	12.75	20.5	6.22	6.72	2.19	0.62	0.03	1.28	0.19	0.14	0.03	0.02	1.16
W870192		1.89	63.2	15.30	5.80	8.30	3.59	0.96	0.81	0.01	0.41	0.13	0.05	0.01	0.01	1.85
W870193		1.71	74.3	13.70	1.24	1.57	0.29	4.26	3.36	<0.01	0.08	0.04	0.03	0.01	0.06	0.53
W870194		1.95	74.8	13.65	1.62	1.83	0.50	4.48	2.95	<0.01	0.11	0.04	0.03	0.01	0.05	0.68
W870195		1.78	45.5	13.90	13.80	12.60	6.01	0.97	0.48	0.04	0.95	0.24	0.07	0.01	0.01	1.55
W870196		2.15	48.1	13.15	12.45	16.10	4.97	0.57	0.29	0.04	0.85	0.24	0.04	0.01	0.01	1.87
W870197		1.76	48.2	14.55	13.40	13.15	5.63	1.92	0.41	0.06	0.95	0.25	0.07	0.01	0.01	1.62
W870198		2.37	49.7	15.70	12.80	11.05	5.53	2.85	0.26	0.05	1.03	0.22	0.06	0.01	0.01	1.40
W870199		2.50	45.5	13.15	12.75	15.25	6.24	1.03	0.36	0.07	0.86	0.27	0.05	0.01	0.01	2.47
W870200		2.51	49.0	13.45	13.25	14.90	6.11	1.10	0.54	0.04	0.83	0.27	0.06	0.01	0.02	2.09
W870201		2.55	46.8	14.75	14.35	13.00	6.00	1.53	0.48	0.06	0.98	0.25	0.06	0.02	0.01	2.03
W870202		2.54	49.4	14.05	12.90	11.45	5.45	1.91	0.40	0.05	0.94	0.23	0.05	0.01	0.01	1.73
W870203		2.28	47.3	14.05	13.45	12.75	5.20	1.77	0.36	0.04	1.06	0.26	0.07	0.01	0.01	1.82
W870204		2.41	46.8	13.85	14.50	13.35	6.95	1.25	0.45	0.05	0.96	0.27	0.06	0.01	0.01	1.53
W870205		3.08	45.7	14.70	14.95	11.75	6.98	1.07	0.99	0.04	1.01	0.25	0.06	0.01	0.02	2.36
W870206		2.65	50.2	11.95	8.81	7.95	8.73	2.78	0.95	0.13	0.66	0.15	0.28	0.06	0.04	1.69
W870207		2.47	52.6	11.95	9.61	8.48	10.40	2.83	1.26	0.16	0.68	0.16	0.28	0.06	0.05	1.57
W870208		2.63	51.3	12.65	9.69	8.53	9.74	2.78	1.35	0.14	0.73	0.16	0.26	0.05	0.05	1.53
W870209		1.65	48.3	14.95	13.00	11.95	6.37	1.94	0.40	0.06	0.99	0.23	0.06	0.01	0.01	1.28
W870210		2.55	49.3	14.80	13.30	9.64	6.77	3.36	0.43	0.05	1.04	0.24	0.09	0.02	0.01	1.28

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THUNDER BAY ON P7B 2R2

Finalized Date: 7-MAR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18037053

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
W870171		100.28	0.05	0.01	593	30.1	10	0.61	3.82	2.55	0.92	16.2	3.86	<5	4.0	0.83
W870172		98.30	0.26	2.55	291	20.1	780	0.39	2.54	1.49	0.75	11.2	2.77	<5	2.0	0.52
W870173		99.23	0.35	0.11	78.6	12.5	190	0.65	3.72	2.49	0.87	17.2	3.26	<5	1.7	0.77
W870174		99.55	0.31	0.15	35.2	16.9	170	1.15	3.74	2.31	0.78	17.5	3.30	<5	2.3	0.75
W870175		99.15	0.51	0.09	28.9	12.0	180	0.51	3.04	2.13	0.80	16.7	2.60	<5	1.6	0.69
W870176		99.00	0.40	0.12	28.9	10.3	160	1.88	3.14	2.17	0.76	16.0	2.81	<5	1.5	0.68
W870177		100.98	0.17	0.04	50.4	20.1	110	0.86	1.64	1.06	0.62	17.7	1.72	<5	2.2	0.34
W870178		101.63	0.31	0.32	49.2	17.3	170	1.25	2.13	1.43	0.67	18.2	2.06	<5	2.0	0.47
W870179		98.57	0.17	0.04	35.3	9.6	340	0.42	3.50	2.36	0.87	18.4	2.93	<5	1.4	0.76
W870180		98.95	0.15	0.01	56.1	8.6	360	0.66	3.75	2.58	0.91	19.3	3.10	<5	1.3	0.84
W870181		99.54	0.24	0.03	44.0	8.3	310	0.32	3.96	2.39	0.89	16.7	3.18	<5	1.6	0.84
W870182		101.10	0.16	0.04	53.4	8.7	310	0.51	3.51	2.33	0.80	16.8	3.02	<5	1.7	0.78
W870183		100.00	0.10	0.04	48.1	8.1	300	0.86	3.32	2.20	0.78	16.1	2.63	<5	1.5	0.71
W870184		99.02	0.11	0.05	48.8	9.4	310	0.66	3.74	2.15	0.78	17.4	2.99	<5	1.6	0.83
W870185		98.39	0.16	0.07	60.7	12.7	300	0.63	3.70	2.32	0.88	16.6	3.22	<5	1.6	0.81
W870186		100.77	0.12	0.09	56.2	10.9	320	0.63	3.64	2.41	0.81	18.2	3.17	<5	1.7	0.84
W870187		98.73	0.09	0.04	39.7	8.6	290	0.81	3.30	2.17	0.72	16.4	2.79	<5	1.5	0.77
W870188		100.63	0.18	0.02	44.9	8.6	280	0.80	3.24	2.22	0.78	15.4	2.88	<5	1.4	0.75
W870189		101.70	0.33	0.05	46.1	9.2	310	0.35	3.71	2.37	0.84	16.5	3.00	<5	1.5	0.84
W870190		101.28	0.34	0.01	40.9	11.3	480	0.35	3.35	2.05	0.83	16.3	2.91	<5	1.7	0.72
W870191		98.85	0.09	1.66	202	24.7	230	0.87	2.32	1.27	1.01	15.0	2.64	<5	2.2	0.48
W870192		100.43	0.11	0.02	102.5	24.2	60	1.59	1.39	0.74	0.67	18.4	1.56	<5	2.8	0.27
W870193		99.47	0.07	<0.01	549	17.9	20	1.57	1.30	0.60	0.33	16.2	1.45	<5	2.0	0.24
W870194		100.75	0.08	<0.01	467	18.8	20	1.36	1.35	0.73	0.32	16.0	1.45	<5	2.2	0.26
W870195		96.13	0.17	0.20	72.5	7.7	300	0.77	3.16	2.03	0.73	16.2	2.67	<5	1.3	0.71
W870196		98.69	0.34	0.18	49.0	8.4	320	0.50	3.31	2.18	0.72	15.6	2.73	<5	1.6	0.74
W870197		100.23	0.26	0.22	75.3	8.2	430	0.59	3.20	2.05	0.77	16.8	2.83	<5	1.3	0.74
W870198		100.67	0.24	0.15	61.2	9.3	350	0.52	3.70	2.32	0.78	17.4	2.99	<5	1.6	0.77
W870199		98.02	0.46	0.11	70.9	8.0	530	0.55	3.22	2.06	0.74	15.8	2.46	<5	1.3	0.71
W870200		101.67	0.35	0.08	144.0	8.4	230	0.69	3.01	1.77	0.68	14.3	2.40	<5	1.4	0.63
W870201		100.32	0.31	0.62	83.4	9.3	470	0.83	3.75	2.37	0.80	17.7	3.27	<5	1.4	0.82
W870202		98.58	0.29	0.16	75.6	8.9	350	0.80	3.21	2.12	0.77	16.6	2.82	<5	1.5	0.75
W870203		98.15	0.39	0.26	57.3	7.1	290	0.80	3.22	2.02	0.75	14.6	2.60	<5	1.1	0.72
W870204		100.04	0.16	0.50	75.4	6.9	380	1.08	3.36	2.06	0.86	16.5	2.76	<5	1.0	0.71
W870205		99.89	0.15	0.28	198.5	7.0	300	0.97	3.14	1.99	0.78	16.7	2.60	<5	1.2	0.71
W870206		94.38	0.05	0.05	388	95.1	930	1.49	3.38	1.49	1.83	17.4	5.68	<5	4.1	0.60
W870207		100.09	0.05	0.06	409	87.7	1050	2.24	3.11	1.36	1.67	16.3	5.48	<5	4.0	0.58
W870208		98.96	0.08	0.08	442	89.7	1040	2.66	3.24	1.53	1.83	17.9	5.82	<5	4.2	0.63
W870209		99.55	0.14	0.19	79.6	8.5	420	0.59	3.46	2.15	0.75	17.5	2.73	<5	1.3	0.76
W870210		100.33	0.10	0.27	81.9	16.5	350	0.52	3.54	2.31	0.90	16.4	3.28	<5	1.7	0.80

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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
W870171		13.4	0.41	2.9	16.8	4.07	26.8	4.03	1	481	0.2	0.61	3.44	0.38	1.39	151
W870172		9.7	0.21	5.9	10.7	2.54	5.0	2.58	2	65.2	0.4	0.43	2.04	0.22	1.02	192
W870173		4.9	0.36	3.1	8.1	1.79	16.2	2.52	1	86.7	0.3	0.57	0.78	0.36	0.59	312
W870174		7.1	0.35	3.0	10.0	2.27	11.7	2.63	1	87.9	0.3	0.56	1.75	0.35	0.48	284
W870175		5.3	0.29	2.7	7.2	1.63	6.8	2.17	<1	79.7	0.2	0.47	0.40	0.29	0.12	292
W870176		4.1	0.33	3.4	7.2	1.49	10.5	2.15	1	80.6	0.5	0.49	0.51	0.33	1.98	268
W870177		10.3	0.16	2.8	8.8	2.33	14.8	1.74	<1	79.1	0.3	0.27	1.90	0.15	0.47	142
W870178		8.5	0.21	2.7	8.2	2.05	16.1	1.86	<1	76.1	0.2	0.35	1.47	0.21	0.42	208
W870179		3.8	0.38	2.4	7.1	1.43	4.7	2.43	1	80.8	0.2	0.56	0.44	0.36	<0.05	377
W870180		3.2	0.42	2.6	6.9	1.33	7.3	2.44	<1	71.0	0.2	0.57	0.20	0.38	<0.05	399
W870181		3.3	0.36	2.6	6.9	1.37	4.4	2.34	1	76.1	0.2	0.55	0.25	0.38	0.19	338
W870182		3.6	0.33	2.7	7.0	1.36	6.0	2.30	1	75.4	0.2	0.54	0.63	0.33	0.67	323
W870183		3.2	0.33	2.5	6.6	1.26	7.5	2.12	1	73.6	0.2	0.48	0.18	0.34	0.08	314
W870184		3.7	0.35	2.9	7.4	1.42	6.5	2.41	1	79.2	0.2	0.54	0.30	0.38	0.07	331
W870185		5.2	0.36	4.9	8.9	1.82	6.5	2.50	1	79.9	0.2	0.53	0.45	0.35	0.08	325
W870186		4.5	0.38	3.6	8.1	1.68	4.6	2.34	<1	84.4	0.2	0.55	0.36	0.35	0.07	350
W870187		3.5	0.32	2.9	6.6	1.35	6.9	2.06	<1	62.6	0.2	0.46	0.16	0.34	0.05	327
W870188		3.4	0.31	2.8	6.8	1.33	9.9	2.22	<1	71.8	0.2	0.48	0.28	0.32	0.07	298
W870189		3.8	0.35	2.6	7.3	1.41	9.6	2.36	1	96.8	0.1	0.56	0.28	0.35	0.09	299
W870190		5.0	0.31	2.5	7.5	1.63	9.5	2.26	1	89.2	0.2	0.51	0.49	0.29	0.15	273
W870191		11.9	0.18	7.0	13.0	3.25	15.4	2.86	3	247	0.4	0.40	1.49	0.18	0.44	116
W870192		13.6	0.11	3.4	10.1	2.77	28.0	1.84	<1	62.1	0.3	0.23	1.82	0.10	0.49	87
W870193		8.8	0.10	8.0	7.4	2.13	78.9	1.69	1	77.8	0.6	0.23	4.85	0.08	2.48	9
W870194		9.3	0.11	7.9	7.8	2.22	63.1	1.77	<1	76.6	0.8	0.23	5.16	0.10	3.17	18
W870195		3.2	0.31	2.5	6.4	1.25	15.5	1.95	1	78.5	0.2	0.50	0.11	0.31	0.06	318
W870196		3.4	0.35	2.3	6.5	1.29	9.2	2.08	1	79.9	0.1	0.45	0.25	0.30	0.08	308
W870197		3.2	0.33	2.4	6.6	1.36	11.9	2.17	1	100.5	0.1	0.50	0.15	0.30	<0.05	327
W870198		3.6	0.34	2.7	7.2	1.51	5.3	2.43	1	119.5	0.2	0.54	0.17	0.33	0.05	340
W870199		3.2	0.30	2.2	6.5	1.28	11.4	2.19	<1	92.9	0.1	0.45	0.21	0.30	<0.05	303
W870200		3.7	0.30	2.3	6.2	1.27	14.0	1.89	1	75.5	0.2	0.45	0.80	0.26	0.25	262
W870201		3.8	0.35	2.6	7.5	1.49	14.1	2.37	1	107.5	0.2	0.55	0.26	0.36	0.39	340
W870202		3.7	0.32	2.6	6.9	1.34	9.2	2.18	1	91.2	0.2	0.45	0.38	0.35	0.15	325
W870203		2.8	0.32	2.3	6.3	1.21	7.7	2.13	1	74.4	0.1	0.48	0.09	0.28	0.05	323
W870204		2.7	0.33	2.3	5.8	1.15	14.7	1.99	1	79.8	0.1	0.50	0.09	0.32	<0.05	342
W870205		3.0	0.32	2.5	5.9	1.14	33.3	1.94	<1	95.0	0.1	0.48	0.13	0.32	<0.05	346
W870206		45.4	0.18	8.4	48.8	12.45	28.6	8.68	3	489	0.5	0.71	8.41	0.21	1.97	155
W870207		41.6	0.17	8.3	46.1	11.40	37.7	8.54	1	459	0.5	0.65	7.76	0.19	1.84	158
W870208		42.7	0.21	7.9	46.8	11.65	44.2	8.22	1	484	0.5	0.69	7.93	0.23	1.88	184
W870209		3.6	0.36	2.6	6.8	1.36	10.7	2.13	<1	103.0	0.2	0.49	0.16	0.34	0.05	339
W870210		6.8	0.34	3.3	11.0	2.46	7.0	2.90	1	159.0	0.2	0.54	0.74	0.35	0.23	316

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

Project: Gfields

CERTIFICATE OF ANALYSIS TB18037053

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
W870171		6	23.0	2.64	141	0.7	0.05	0.009	0.009	0.001	0.13	<0.2	0.01	0.04	<0.5	<0.5
W870172		1	14.3	1.39	79	44.5	0.30	0.117	0.056	0.015	1.14	12.1	1.20	0.06	2.6	0.8
W870173		1	21.7	2.45	62	0.7	0.02	<0.005	0.007	0.001	<0.05	0.3	0.02	0.03	<0.5	<0.5
W870174		1	21.1	2.24	83	1.9	0.02	<0.005	0.009	0.001	0.06	0.3	0.02	0.04	<0.5	0.5
W870175		1	18.1	1.88	58	1.8	0.02	<0.005	0.007	0.001	<0.05	<0.2	0.02	0.02	<0.5	<0.5
W870176		2	18.9	2.05	53	1.2	0.25	<0.005	0.008	0.001	0.10	0.3	0.03	0.02	<0.5	0.5
W870177		9	9.4	1.00	89	0.5	0.01	<0.005	0.006	<0.001	<0.05	0.2	<0.01	0.02	<0.5	<0.5
W870178		1	12.5	1.41	79	0.4	0.02	<0.005	0.007	0.001	<0.05	0.2	0.04	0.03	<0.5	<0.5
W870179		4	20.6	2.25	51	1.3	0.01	<0.005	0.008	<0.001	<0.05	0.2	0.01	0.02	<0.5	<0.5
W870180		<1	21.8	2.58	51	0.3	0.01	<0.005	0.009	0.001	<0.05	0.2	0.01	0.02	<0.5	<0.5
W870181		<1	21.9	2.32	64	0.3	0.01	<0.005	0.008	0.002	<0.05	0.3	0.01	<0.02	<0.5	0.5
W870182		<1	20.3	2.27	61	0.5	0.01	<0.005	0.009	0.001	<0.05	0.2	0.01	0.02	<0.5	<0.5
W870183		<1	19.3	2.10	55	0.3	0.01	<0.005	0.010	0.001	<0.05	<0.2	0.01	0.04	<0.5	0.5
W870184		<1	21.5	2.27	58	0.3	0.01	<0.005	0.011	0.001	<0.05	0.3	<0.01	0.03	<0.5	0.5
W870185		<1	21.8	2.19	60	0.5	0.01	<0.005	0.009	0.001	<0.05	0.2	0.01	0.03	<0.5	0.6
W870186		<1	21.4	2.43	63	0.4	0.01	<0.005	0.011	0.001	<0.05	0.4	0.01	0.03	<0.5	0.5
W870187		<1	19.4	2.12	55	0.3	0.01	<0.005	0.012	0.001	<0.05	0.2	0.01	0.04	<0.5	<0.5
W870188		1	19.6	2.16	53	0.7	0.02	<0.005	0.010	0.001	<0.05	0.2	0.02	0.02	<0.5	0.5
W870189		23	21.9	2.17	54	0.6	0.02	<0.005	0.008	0.001	<0.05	0.3	0.02	0.02	<0.5	0.5
W870190		1	19.8	2.01	62	0.5	0.02	<0.005	0.006	0.001	<0.05	<0.2	0.01	0.02	<0.5	0.5
W870191		3	12.4	1.14	94	4.2	0.78	0.014	0.062	0.006	0.32	5.0	0.54	0.09	2.1	1.0
W870192		<1	7.6	0.66	115	0.4	0.01	<0.005	0.009	<0.001	<0.05	0.2	0.01	0.05	<0.5	<0.5
W870193		1	7.2	0.60	55	0.4	0.02	<0.005	0.005	<0.001	<0.05	<0.2	<0.01	0.07	<0.5	<0.5
W870194		<1	7.7	0.66	57	0.7	0.02	<0.005	<0.005	0.001	<0.05	<0.2	<0.01	0.04	<0.5	<0.5
W870195		<1	18.5	2.01	42	1.0	0.02	<0.005	0.007	0.002	<0.05	0.3	0.02	0.06	<0.5	<0.5
W870196		1	19.6	1.99	57	3.7	0.01	<0.005	0.006	0.002	<0.05	0.4	0.02	0.03	<0.5	0.5
W870197		<1	19.6	2.08	44	1.6	0.01	<0.005	0.009	0.001	<0.05	0.6	0.03	0.05	<0.5	0.5
W870198		<1	21.1	2.17	57	1.0	0.01	<0.005	0.010	0.001	<0.05	0.4	0.02	0.04	<0.5	0.6
W870199		1	18.9	2.08	47	1.0	0.01	<0.005	0.007	0.001	<0.05	0.4	0.01	0.03	<0.5	1.0
W870200		1	17.4	1.83	46	0.4	0.01	<0.005	0.007	0.001	<0.05	<0.2	0.01	0.03	<0.5	1.0
W870201		4	22.1	2.38	51	0.4	0.03	<0.005	0.012	0.001	<0.05	0.6	0.09	0.04	<0.5	0.9
W870202		1	19.1	2.07	51	0.2	0.01	<0.005	0.013	0.001	<0.05	0.4	0.02	0.04	<0.5	0.9
W870203		1	18.8	1.89	37	0.3	0.01	<0.005	0.013	0.001	<0.05	0.3	0.04	0.05	<0.5	0.7
W870204		1	19.4	2.08	35	0.3	0.03	<0.005	0.008	0.001	<0.05	0.4	0.04	0.06	<0.5	0.7
W870205		1	18.5	2.00	39	0.3	0.02	<0.005	0.009	0.001	<0.05	0.7	0.05	0.06	<0.5	1.0
W870206		<1	16.5	1.36	179	0.5	0.04	<0.005	0.008	<0.001	<0.05	0.3	<0.01	0.09	<0.5	0.5
W870207		<1	15.6	1.14	166	0.1	0.03	<0.005	0.006	<0.001	<0.05	<0.2	<0.01	0.14	<0.5	<0.5
W870208		<1	16.8	1.45	173	0.2	0.03	<0.005	0.008	<0.001	<0.05	<0.2	<0.01	0.16	<0.5	0.8
W870209		1	20.1	2.13	48	0.2	0.02	<0.005	0.010	0.001	<0.05	0.5	0.02	0.03	<0.5	0.7
W870210		1	20.8	2.14	59	0.3	0.03	<0.005	0.011	0.001	<0.05	0.5	0.03	0.04	<0.5	0.6

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

Project: Gfields

CERTIFICATE OF ANALYSIS TB18037053

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
W870171		15	96	10	2	7	3	18	59	0.002	0.009	0.002	0.027
W870172		149	5450	40	2	2090	2	24	73	0.123	0.722	0.376	11.00
W870173		47	127	30	<1	82	<2	39	103	0.003	0.010	0.009	0.264
W870174		43	158	10	<1	74	<2	34	74	0.001	0.008	0.008	0.335
W870175		47	157	10	<1	78	<2	35	88	0.002	0.009	0.008	0.293
W870176		43	139	20	<1	68	<2	32	104	0.001	0.007	0.007	0.330
W870177		23	73	20	<1	33	<2	18	59	<0.001	0.005	0.005	0.141
W870178		35	119	20	<1	67	<2	26	57	<0.001	<0.005	0.001	0.249
W870179		61	102	20	<1	115	<2	49	70	0.001	<0.005	<0.001	0.147
W870180		58	116	10	<1	108	<2	49	78	0.002	<0.005	<0.001	0.149
W870181		53	184	10	<1	98	<2	44	93	0.003	<0.005	0.001	0.361
W870182		53	150	10	<1	107	<2	44	97	0.001	<0.005	0.001	0.218
W870183		54	135	20	<1	113	<2	43	102	<0.001	<0.005	0.001	0.217
W870184		54	129	20	<1	110	<2	44	106	0.001	<0.005	0.001	0.240
W870185		54	167	10	<1	107	<2	44	96	<0.001	<0.005	0.001	0.305
W870186		56	180	10	<1	108	<2	45	102	<0.001	<0.005	0.001	0.335
W870187		52	157	10	<1	91	<2	44	102	<0.001	<0.005	0.001	0.189
W870188		52	103	20	<1	96	<2	45	94	0.001	<0.005	0.001	0.141
W870189		46	140	30	<1	91	<2	41	92	0.001	<0.005	<0.001	0.190
W870190		40	85	30	<1	93	<2	35	96	<0.001	<0.005	0.001	0.068
W870191		120	4750	20	4	4540	18	12	104	0.059	0.298	0.618	4.30
W870192		18	46	30	<1	34	<2	9	58	0.001	<0.005	<0.001	0.050
W870193		2	3	10	<1	3	8	2	15	<0.001	<0.005	<0.001	0.009
W870194		4	5	10	<1	6	5	3	13	<0.001	<0.005	<0.001	0.014
W870195		50	165	20	<1	93	<2	43	91	0.002	<0.005	0.001	0.474
W870196		48	153	10	<1	102	<2	41	77	0.010	<0.005	0.001	0.415
W870197		56	181	20	<1	125	<2	45	106	0.001	<0.005	0.001	0.525
W870198		53	147	20	<1	119	<2	47	90	0.001	<0.005	0.001	0.449
W870199		48	82	30	<1	109	<2	44	110	0.002	<0.005	0.001	0.300
W870200		45	78	20	<1	86	<2	39	109	<0.001	<0.005	0.001	0.223
W870201		67	169	20	<1	133	<2	49	119	0.009	<0.005	0.001	0.683
W870202		49	110	20	1	107	<2	46	113	<0.001	<0.005	0.001	0.272
W870203		53	141	20	1	114	<2	49	113	<0.001	<0.005	0.001	0.329
W870204		62	199	20	<1	136	5	47	122	<0.001	0.005	0.004	0.451
W870205		60	188	30	<1	131	5	49	141	0.001	0.008	0.007	0.594
W870206		43	62	30	<1	223	10	25	97	<0.001	0.007	0.003	0.047
W870207		49	65	40	<1	279	6	27	101	<0.001	0.005	0.003	0.057
W870208		50	75	40	<1	258	9	30	123	<0.001	0.006	0.003	0.091
W870209		59	127	20	1	127	2	51	125	0.001	<0.005	0.001	0.365
W870210		59	182	20	1	136	<2	48	137	0.001	<0.005	0.001	0.454

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

Finalized Date: 7-MAR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18037053

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
W870211		0.04	62.0	16.50	5.90	6.12	2.77	3.34	1.47	<0.01	0.50	0.12	0.12	0.06	0.07	1.06
W870212		2.20	47.8	13.00	13.90	11.95	5.56	2.87	0.24	0.04	0.89	0.33	0.07	0.01	0.01	1.16
W870213		2.25	47.4	14.90	14.85	9.83	6.81	3.13	0.29	0.05	1.01	0.31	0.06	0.02	0.01	1.48
W870214		2.24	44.6	14.55	15.70	13.15	5.71	1.91	0.57	0.04	1.04	0.31	0.08	0.01	0.01	1.86
W870215		2.45	49.1	14.35	13.65	9.86	6.72	2.92	0.31	0.03	1.02	0.28	0.08	0.01	0.01	1.00
W870216		2.31	50.0	15.05	12.80	10.60	6.03	3.43	0.22	0.03	1.01	0.33	0.08	0.01	0.01	1.08
W870217		2.30	49.5	14.75	14.55	10.00	6.77	3.12	0.30	0.04	0.97	0.36	0.08	0.01	0.01	1.43
W870218		2.45	47.0	14.25	16.80	10.50	6.72	2.87	0.24	0.04	0.95	0.38	0.10	0.01	0.01	1.44
W870219		2.46	49.0	15.00	12.75	9.40	6.88	3.23	0.29	0.09	0.94	0.30	0.11	0.02	0.01	1.67
W870220		2.40	51.9	15.50	11.55	10.30	6.08	3.51	0.40	0.05	1.01	0.28	0.12	0.02	0.02	1.23
W870221		2.40	48.1	15.60	13.20	9.81	6.15	3.36	0.27	0.04	1.06	0.31	0.09	0.01	0.01	1.16
W870222		2.57	48.6	15.20	12.95	11.85	5.32	2.55	0.32	0.04	1.05	0.30	0.10	0.01	0.01	1.40
W870223		2.60	51.4	14.75	12.35	10.20	5.57	2.71	0.53	0.03	0.90	0.26	0.08	0.01	0.01	1.51
W870224		2.23	53.2	14.15	11.00	8.52	5.85	2.30	1.48	0.03	0.66	0.21	0.05	0.01	0.04	1.58
W870225		2.57	43.8	15.00	12.15	13.05	7.57	1.19	1.04	0.04	0.71	0.22	0.05	0.01	0.02	3.60
W870226		2.63	44.0	15.85	12.30	12.75	7.01	1.17	0.95	0.05	0.88	0.22	0.06	0.01	0.01	2.77
W870227		2.72	43.2	15.55	13.40	13.80	6.56	0.90	1.01	0.04	1.11	0.23	0.10	0.01	0.02	3.83
W870228		2.51	48.1	14.10	12.75	10.00	8.27	1.53	0.71	0.04	0.74	0.22	0.03	0.01	0.01	4.01
W870229		2.42	48.3	14.75	12.05	9.59	7.66	2.44	0.49	0.05	0.86	0.21	0.05	0.01	0.01	1.81
W870230		2.44	46.9	14.70	15.20	10.60	7.19	2.42	0.49	0.04	1.10	0.26	0.08	0.03	0.02	1.72
W870231		0.08	42.7	9.21	15.40	16.15	11.00	0.61	0.26	0.11	0.71	0.15	0.13	<0.01	0.03	3.96
W870232		2.56	46.5	14.60	14.15	9.85	7.65	2.46	0.44	0.04	1.08	0.27	0.07	0.02	0.01	1.22
W870233		2.54	49.6	12.70	10.85	15.30	8.56	1.45	0.53	0.03	0.76	0.28	0.05	0.01	0.01	1.39
W870234		2.45	45.7	13.10	10.70	17.60	8.86	0.53	0.80	0.03	0.91	0.34	0.07	0.01	0.02	2.06
W870235		2.43	47.1	11.25	9.72	18.40	7.80	0.88	0.43	0.02	0.64	0.30	0.05	<0.01	0.01	2.88
W870236		2.49	45.6	13.40	14.35	13.80	8.70	0.68	0.76	0.04	1.06	0.29	0.07	0.01	0.02	2.05
W870237		2.55	54.4	14.75	10.70	10.10	5.89	1.92	0.90	0.03	0.77	0.20	0.07	0.01	0.02	1.35
W870238		2.27	55.7	13.40	12.45	8.20	5.61	2.73	0.70	0.02	0.99	0.19	0.08	0.01	0.01	0.87
W870239		2.44	48.4	13.40	16.10	10.40	7.02	2.30	0.35	0.02	1.27	0.25	0.11	0.01	0.01	0.74
W870240		2.34	49.3	13.35	15.45	10.65	6.49	2.17	0.42	0.02	1.25	0.24	0.10	0.01	0.01	0.73
W870241		2.08	49.8	14.15	13.40	11.55	6.54	1.89	0.75	0.02	0.95	0.21	0.07	0.01	0.01	1.35
W870242		2.13	48.6	14.15	14.45	11.50	6.74	1.92	0.44	0.02	1.05	0.23	0.09	0.01	0.01	1.43
W870243		2.22	48.0	14.65	13.80	10.25	5.63	2.61	0.51	0.02	1.43	0.24	0.10	0.01	0.01	1.04
W870244		2.48	47.6	14.30	16.60	11.00	5.71	2.26	0.40	0.03	1.14	0.36	0.07	0.01	0.01	0.76
W870245		2.40	43.4	14.90	18.10	11.15	5.98	1.73	0.45	0.03	1.29	0.44	0.09	0.01	0.01	1.33
W870246		2.28	48.8	14.70	14.50	11.20	5.88	2.48	0.44	0.02	1.35	0.33	0.11	0.01	0.01	1.14
W870247		2.42	47.2	15.20	14.70	10.50	5.63	2.43	0.64	0.03	1.27	0.35	0.11	0.01	0.02	1.60
W870248		0.09	48.0	12.95	21.0	6.37	6.77	2.19	0.66	0.03	1.26	0.20	0.16	0.03	0.02	1.16

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

Project: Gfields

CERTIFICATE OF ANALYSIS TB18037053

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
W870211		100.03	0.03	0.01	593	29.8	10	0.73	3.87	2.40	0.91	16.7	3.64	<5	4.3	0.82
W870212		97.83	0.22	0.25	60.8	9.4	270	0.43	3.29	2.12	0.72	15.7	2.87	<5	1.4	0.75
W870213		100.15	0.12	0.35	58.3	10.8	350	0.67	3.39	2.23	0.86	18.6	3.10	<5	1.6	0.80
W870214		99.54	0.27	0.75	110.5	9.4	290	0.67	3.50	2.23	0.89	16.8	2.88	<5	1.3	0.78
W870215		99.34	0.09	0.19	65.3	8.9	250	0.26	3.72	2.48	0.78	16.3	3.08	<5	1.6	0.80
W870216		100.68	0.16	0.11	53.6	8.9	230	0.15	3.52	2.22	0.80	15.5	2.90	<5	1.5	0.75
W870217		101.89	0.12	0.24	58.1	9.4	260	0.27	3.53	2.36	0.73	16.1	2.85	<5	1.6	0.77
W870218		101.31	0.12	0.56	44.4	8.8	300	0.38	3.40	2.33	0.74	15.6	2.84	<5	1.5	0.75
W870219		99.69	0.08	0.10	92.0	15.7	590	0.47	3.19	2.06	0.87	16.3	2.96	<5	1.6	0.70
W870220		101.97	0.14	0.08	135.5	15.7	340	0.49	3.59	2.21	0.92	16.3	3.19	<5	1.7	0.76
W870221		99.17	0.11	0.20	51.0	8.4	280	0.22	3.48	2.28	0.78	17.0	2.92	<5	1.4	0.76
W870222		99.70	0.22	0.18	60.8	7.9	250	0.36	3.55	2.32	0.79	16.8	2.91	<5	1.4	0.77
W870223		100.31	0.15	0.08	79.2	10.4	220	0.74	3.55	2.36	0.69	16.8	2.88	<5	1.6	0.77
W870224		99.08	0.11	0.13	323	16.9	210	1.06	2.63	1.75	0.59	15.3	2.24	<5	1.7	0.58
W870225		98.45	0.43	0.13	153.5	4.9	310	1.36	2.40	1.56	0.59	14.9	1.92	<5	0.7	0.53
W870226		98.03	0.20	0.21	118.5	5.5	330	1.41	2.68	1.73	0.70	16.3	2.21	<5	0.7	0.59
W870227		99.76	0.53	0.39	125.5	6.3	290	1.21	3.40	2.15	0.82	17.3	2.62	<5	1.0	0.75
W870228		100.52	0.50	0.30	93.7	6.7	270	1.49	2.56	1.57	0.57	15.5	2.16	<5	0.9	0.56
W870229		98.28	0.13	0.12	88.7	6.9	340	1.23	3.08	1.97	0.70	16.4	2.41	<5	1.1	0.63
W870230		100.75	0.24	0.14	150.0	9.0	270	1.20	3.97	2.54	0.86	18.0	3.21	<5	1.4	0.85
W870231		100.42	0.25	2.61	256	17.7	700	0.40	2.42	1.37	0.67	10.3	2.34	<5	1.8	0.46
W870232		98.36	0.07	0.07	116.5	8.9	280	0.71	3.97	2.58	0.88	17.2	3.37	<5	1.4	0.86
W870233		101.52	0.15	0.07	92.1	8.2	200	0.96	2.78	1.80	0.66	14.2	2.34	<5	1.2	0.59
W870234		100.73	0.15	0.13	148.0	7.7	230	0.92	3.26	2.11	0.78	15.2	2.67	<5	1.3	0.68
W870235		99.48	0.51	0.19	85.7	7.9	160	0.33	2.55	1.55	0.60	13.0	2.11	<5	1.6	0.55
W870236		100.83	0.22	0.16	133.0	5.9	280	1.12	2.75	1.91	0.78	16.3	2.31	<5	1.0	0.62
W870237		101.11	0.11	0.10	138.5	10.1	210	1.40	2.46	1.66	0.60	15.7	2.04	<5	1.4	0.54
W870238		100.96	0.05	0.13	99.2	15.0	110	1.11	3.50	2.27	0.73	17.5	3.02	<5	2.4	0.73
W870239		100.38	0.06	0.14	50.7	9.7	140	0.38	4.17	2.70	0.90	18.0	3.41	<5	1.6	0.89
W870240		100.19	0.08	0.17	56.4	10.1	120	1.41	4.11	2.55	0.91	17.8	3.29	<5	1.7	0.83
W870241		100.70	0.16	0.24	85.0	12.0	110	2.24	3.54	2.33	0.80	17.3	3.00	<5	2.1	0.76
W870242		100.64	0.11	0.09	61.8	9.5	120	0.54	3.61	2.37	0.87	17.4	3.05	<5	1.8	0.79
W870243		98.30	0.06	0.28	77.1	11.7	120	0.44	3.98	2.50	1.00	18.1	3.38	<5	1.5	0.85
W870244		100.25	0.10	0.23	75.9	9.4	170	0.80	3.71	2.30	0.86	16.7	2.90	<5	1.4	0.78
W870245		98.91	0.10	0.29	109.0	7.0	230	1.40	3.00	1.85	0.80	19.6	2.42	<5	1.1	0.65
W870246		100.97	0.14	0.09	86.7	12.9	120	0.63	4.20	2.58	1.04	18.7	3.62	<5	1.4	0.91
W870247		99.69	0.11	0.36	157.0	8.7	220	1.03	3.82	2.43	0.90	18.8	3.20	<5	1.2	0.81
W870248		100.80	0.08	1.74	200	26.0	240	0.93	2.48	1.42	1.06	16.0	2.73	<5	2.1	0.50

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

Project: Gfields

CERTIFICATE OF ANALYSIS TB18037053

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
W870211		13.9	0.39	3.4	17.5	4.14	26.7	4.05	1	491	0.2	0.58	3.12	0.38	1.34	145
W870212		3.8	0.34	2.5	7.1	1.48	4.6	2.25	1	98.7	0.2	0.50	0.20	0.32	0.08	279
W870213		4.7	0.35	2.8	7.7	1.65	5.4	2.44	1	128.5	0.2	0.53	0.27	0.34	0.06	326
W870214		3.9	0.33	2.6	7.1	1.47	14.9	2.49	1	117.5	0.2	0.49	0.17	0.34	0.06	307
W870215		3.3	0.37	2.5	7.1	1.40	5.3	2.28	1	136.0	0.2	0.54	0.16	0.35	<0.05	332
W870216		3.4	0.35	2.5	6.7	1.32	3.1	2.20	1	114.5	0.2	0.51	0.29	0.35	0.08	311
W870217		3.7	0.36	2.5	6.9	1.41	4.7	2.08	1	106.5	0.2	0.51	0.56	0.35	0.65	311
W870218		3.4	0.35	2.5	6.7	1.35	3.5	2.13	1	89.5	0.1	0.50	0.29	0.34	0.14	294
W870219		6.6	0.32	2.8	9.9	2.20	5.5	2.58	1	167.0	0.2	0.48	0.88	0.30	0.23	295
W870220		6.6	0.32	2.8	10.3	2.21	8.1	2.81	1	190.0	0.2	0.54	0.87	0.32	0.22	308
W870221		3.2	0.35	2.6	6.9	1.33	3.6	2.25	1	112.5	0.2	0.51	0.11	0.34	<0.05	328
W870222		2.9	0.36	2.6	6.7	1.29	5.5	2.22	<1	109.5	0.2	0.51	0.10	0.33	0.06	334
W870223		4.3	0.37	3.2	6.9	1.50	13.0	2.38	1	112.0	0.6	0.53	1.95	0.34	0.85	292
W870224		8.9	0.28	2.2	7.3	1.87	34.8	1.87	1	83.0	0.2	0.38	3.98	0.28	0.55	230
W870225		1.8	0.24	1.3	4.1	0.81	33.2	1.47	<1	80.2	0.1	0.36	0.09	0.23	<0.05	264
W870226		1.9	0.26	1.6	4.8	0.92	30.4	1.64	<1	107.0	0.1	0.40	<0.05	0.26	<0.05	305
W870227		2.2	0.34	2.3	5.8	1.09	31.6	2.18	1	92.4	0.1	0.50	0.07	0.33	<0.05	355
W870228		2.7	0.27	1.6	4.8	1.00	21.8	1.63	1	87.4	0.1	0.38	0.56	0.25	0.12	275
W870229		2.7	0.30	1.8	5.5	1.08	12.1	1.90	1	144.5	0.1	0.43	0.60	0.29	0.14	308
W870230		3.1	0.39	2.8	7.5	1.47	7.6	2.45	1	235	0.1	0.59	<0.05	0.38	<0.05	354
W870231		8.6	0.21	5.8	9.6	2.24	4.6	2.39	2	57.9	0.3	0.37	1.90	0.20	0.89	171
W870232		3.0	0.40	2.6	7.6	1.48	7.2	2.52	1	222	0.1	0.56	0.11	0.38	<0.05	362
W870233		3.3	0.28	1.8	5.8	1.20	13.8	1.89	1	90.5	0.1	0.41	0.79	0.27	0.17	266
W870234		3.0	0.31	2.1	6.3	1.21	24.0	2.05	1	79.0	0.1	0.46	0.25	0.30	0.08	297
W870235		3.5	0.27	1.8	5.2	1.10	12.0	1.68	1	62.1	0.2	0.36	1.40	0.24	0.61	203
W870236		2.3	0.31	2.5	4.8	0.93	25.0	1.69	1	80.1	0.1	0.40	0.13	0.28	0.06	335
W870237		4.7	0.25	2.2	5.6	1.28	27.0	1.62	1	82.4	0.2	0.36	1.40	0.24	0.33	237
W870238		6.2	0.34	3.0	9.2	2.06	18.3	2.55	1	111.0	0.2	0.51	0.72	0.34	0.29	292
W870239		3.5	0.40	2.9	8.2	1.59	6.1	2.61	1	121.5	0.2	0.60	0.16	0.41	0.05	375
W870240		3.7	0.39	2.9	8.1	1.61	10.2	2.68	1	107.0	0.2	0.60	1.34	0.39	0.25	366
W870241		5.1	0.35	2.7	8.2	1.69	24.9	2.51	1	90.7	0.2	0.53	1.49	0.36	0.34	287
W870242		3.8	0.37	2.6	7.3	1.48	11.2	2.33	1	96.7	0.2	0.54	0.46	0.36	0.13	313
W870243		4.8	0.39	3.0	8.2	1.72	11.1	2.52	1	125.0	0.2	0.60	1.04	0.37	0.17	410
W870244		3.8	0.36	2.6	7.0	1.42	9.2	2.26	1	97.8	0.2	0.52	0.61	0.35	0.24	361
W870245		2.6	0.30	2.7	5.7	1.12	11.2	1.95	1	110.5	0.1	0.43	0.06	0.29	<0.05	382
W870246		5.3	0.38	3.2	9.3	1.93	9.1	2.91	2	119.0	0.2	0.60	1.12	0.38	0.08	386
W870247		3.3	0.36	2.9	7.2	1.37	17.9	2.49	1	132.5	0.1	0.55	0.35	0.34	0.07	401
W870248		12.0	0.18	6.7	13.0	3.23	16.3	2.80	3	244	0.4	0.42	1.59	0.19	0.42	131

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

Finalized Date: 7-MAR-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18037053

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
W870211		5	23.2	2.35	155	0.9	0.04	0.007	0.011	0.001	0.12	0.2	<0.01	0.04	<0.5	<0.5
W870212		1	20.2	2.00	48	0.3	0.02	<0.005	0.012	0.001	<0.05	0.6	0.03	0.03	<0.5	0.9
W870213		1	21.4	2.30	58	0.1	0.03	<0.005	0.013	0.001	<0.05	0.4	0.04	0.04	<0.5	1.0
W870214		1	20.2	2.14	48	0.7	0.06	<0.005	0.013	0.002	<0.05	1.0	0.14	0.05	<0.5	1.1
W870215		<1	20.3	2.46	53	0.3	0.01	<0.005	0.011	0.001	<0.05	0.3	0.03	0.02	<0.5	1.0
W870216		1	19.2	2.29	52	0.6	0.01	<0.005	0.011	0.001	<0.05	0.4	0.01	0.02	<0.5	0.8
W870217		<1	20.1	2.38	52	0.3	0.02	<0.005	0.010	0.001	<0.05	0.5	0.03	0.02	<0.5	1.1
W870218		<1	19.2	2.21	51	0.3	0.03	<0.005	0.012	0.001	<0.05	0.8	0.04	0.03	<0.5	1.0
W870219		<1	17.6	1.94	55	0.3	0.03	<0.005	0.011	<0.001	<0.05	0.3	0.02	0.04	<0.5	0.7
W870220		<1	19.0	2.14	57	0.2	0.02	<0.005	0.014	<0.001	<0.05	0.2	0.01	0.03	<0.5	0.5
W870221		1	19.6	2.22	46	0.2	0.03	0.005	0.015	0.001	<0.05	0.6	0.03	0.02	<0.5	0.6
W870222		2	19.7	2.22	48	0.3	0.03	<0.005	0.010	0.001	<0.05	0.4	0.02	0.02	<0.5	0.6
W870223		1	20.3	2.38	44	0.3	0.01	<0.005	0.012	<0.001	<0.05	0.4	0.01	0.03	<0.5	0.6
W870224		<1	14.8	1.69	53	0.5	0.02	<0.005	0.008	<0.001	<0.05	0.5	0.02	0.04	<0.5	<0.5
W870225		1	13.4	1.47	21	0.3	0.01	<0.005	0.006	0.001	<0.05	0.4	0.02	0.06	<0.5	0.8
W870226		<1	14.9	1.77	23	0.3	0.02	<0.005	0.007	0.001	<0.05	0.3	0.03	0.06	<0.5	0.7
W870227		1	18.3	2.12	34	0.3	0.03	<0.005	0.007	0.001	<0.05	0.6	0.04	0.07	<0.5	0.7
W870228		<1	14.2	1.70	29	0.6	0.02	<0.005	0.008	0.001	<0.05	0.4	0.02	0.04	<0.5	0.8
W870229		<1	16.5	1.88	33	0.2	0.01	<0.005	0.012	<0.001	<0.05	0.4	0.01	0.07	<0.5	0.8
W870230		<1	21.8	2.51	46	0.2	0.01	<0.005	0.017	0.001	<0.05	0.4	0.02	0.04	<0.5	0.7
W870231		1	12.8	1.31	68	44.9	0.32	0.143	0.049	0.017	1.19	12.5	1.33	0.06	2.7	1.5
W870232		<1	21.9	2.59	42	0.1	0.01	<0.005	0.015	0.001	<0.05	0.3	0.01	<0.02	<0.5	0.6
W870233		<1	15.8	1.73	35	0.3	0.01	<0.005	0.009	0.001	<0.05	0.4	0.01	0.03	<0.5	0.8
W870234		<1	17.9	2.07	45	0.4	0.01	<0.005	0.009	<0.001	<0.05	<0.2	0.02	0.04	<0.5	1.0
W870235		1	14.6	1.63	53	0.7	0.01	0.006	0.007	<0.001	<0.05	0.3	0.01	0.02	<0.5	0.6
W870236		1	15.5	1.86	33	0.6	0.01	<0.005	0.009	0.001	<0.05	0.5	0.02	0.05	<0.5	<0.5
W870237		1	14.0	1.61	45	0.6	0.01	<0.005	0.008	0.001	<0.05	0.3	0.01	0.09	<0.5	<0.5
W870238		<1	19.2	2.15	84	0.5	0.01	<0.005	0.013	0.001	<0.05	0.5	0.01	0.09	<0.5	<0.5
W870239		1	23.0	2.62	48	0.3	0.01	<0.005	0.012	0.001	<0.05	0.3	0.02	0.02	<0.5	0.6
W870240		1	21.8	2.48	53	0.5	0.02	<0.005	0.012	0.002	<0.05	0.7	0.01	0.04	6.8	0.5
W870241		1	20.3	2.28	75	1.1	0.04	<0.005	0.012	0.001	0.06	0.8	0.02	0.08	<0.5	<0.5
W870242		1	20.1	2.29	61	0.5	0.01	0.005	0.012	0.001	<0.05	0.6	0.02	0.02	0.6	<0.5
W870243		1	21.8	2.49	50	0.4	0.03	<0.005	0.014	0.001	<0.05	0.6	0.03	0.03	<0.5	0.6
W870244		1	20.1	2.38	42	0.3	0.02	<0.005	0.014	0.001	<0.05	0.5	0.03	0.03	<0.5	0.6
W870245		<1	16.2	1.91	36	0.2	0.03	<0.005	0.016	0.002	<0.05	0.2	0.02	0.05	<0.5	0.6
W870246		1	22.6	2.53	43	0.5	0.01	<0.005	0.017	0.001	<0.05	0.2	0.01	0.02	<0.5	<0.5
W870247		1	20.2	2.37	38	0.5	0.03	<0.005	0.017	0.001	<0.05	0.2	0.03	0.02	<0.5	0.6
W870248		4	12.6	1.24	83	4.4	0.90	0.008	0.064	0.005	0.31	4.8	0.66	0.10	2.0	0.9

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

Project: Gfields

CERTIFICATE OF ANALYSIS TB18037053

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
W870211		14	96	10	3	6	8	18	68	0.005	<0.005	<0.001	0.027
W870212		58	173	20	<1	135	<2	42	176	<0.001	<0.005	0.001	0.421
W870213		58	143	30	1	161	<2	46	123	<0.001	<0.005	0.001	0.435
W870214		63	290	30	1	149	2	48	119	0.002	<0.005	0.001	0.952
W870215		55	119	10	<1	111	2	47	138	<0.001	<0.005	<0.001	0.324
W870216		54	101	10	1	114	<2	45	124	<0.001	<0.005	0.001	0.274
W870217		51	166	20	1	119	<2	43	124	<0.001	<0.005	0.001	0.381
W870218		62	177	20	1	133	<2	43	124	<0.001	<0.005	0.001	0.611
W870219		55	87	30	<1	173	<2	40	125	<0.001	<0.005	0.002	0.240
W870220		53	81	10	<1	153	<2	42	116	<0.001	<0.005	0.001	0.180
W870221		54	108	10	<1	128	<2	47	131	<0.001	<0.005	0.001	0.396
W870222		58	91	10	<1	122	<2	48	142	<0.001	<0.005	<0.001	0.278
W870223		46	86	20	<1	97	3	40	108	0.001	<0.005	<0.001	0.164
W870224		43	96	20	1	99	6	33	89	<0.001	<0.005	0.002	0.210
W870225		47	86	30	<1	151	<2	39	94	<0.001	0.007	0.011	0.242
W870226		49	105	30	<1	157	2	39	101	<0.001	0.009	0.012	0.353
W870227		52	254	30	<1	114	<2	46	92	0.001	0.006	0.006	0.643
W870228		50	158	40	<1	119	<2	37	98	0.008	0.008	0.006	0.397
W870229		50	67	30	<1	132	<2	36	94	<0.001	<0.005	0.006	0.258
W870230		58	102	20	1	119	<2	47	125	<0.001	<0.005	<0.001	0.338
W870231		159	5650	40	3	2230	3	26	80	0.124	0.721	0.377	10.75
W870232		58	103	20	<1	126	<2	44	118	<0.001	<0.005	0.002	0.242
W870233		38	73	20	<1	82	<2	33	96	<0.001	0.005	0.004	0.195
W870234		36	91	30	<1	87	4	39	83	<0.001	<0.005	0.003	0.200
W870235		24	64	20	1	60	<2	25	121	<0.001	<0.005	0.002	0.259
W870236		49	119	20	<1	120	<2	38	106	<0.001	0.006	0.005	0.355
W870237		34	93	20	<1	79	<2	31	75	<0.001	0.005	0.004	0.258
W870238		39	163	20	<1	48	<2	34	99	<0.001	<0.005	0.002	0.338
W870239		52	94	10	<1	59	<2	45	128	<0.001	<0.005	0.001	0.294
W870240		48	117	10	<1	55	<2	43	119	<0.001	<0.005	0.001	0.471
W870241		46	196	20	<1	83	<2	35	111	<0.001	<0.005	<0.001	0.625
W870242		50	124	20	<1	94	<2	39	102	<0.001	<0.005	0.001	0.257
W870243		47	189	10	<1	76	<2	40	107	<0.001	<0.005	0.001	0.405
W870244		49	99	20	<1	98	<2	38	108	<0.001	<0.005	0.001	0.335
W870245		56	92	20	<1	120	<2	45	131	<0.001	<0.005	0.001	0.249
W870246		55	77	20	<1	92	<2	49	109	<0.001	<0.005	0.001	0.158
W870247		59	164	30	<1	127	<2	50	100	<0.001	<0.005	<0.001	0.376
W870248		120	4690	20	4	4560	18	12	100	0.054	0.343	0.624	4.30

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CERTIFICATE OF ANALYSIS TB18037053

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		