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: 7-FEB-2018
Account: NAPEHZEU

CERTIFICATE TB18010723

Project: Gfields

P.O. No.: 178845

This report is for 78 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 16-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 TB18010723

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
W443001		1.09	23.5	0.98	0.18	24.0	18.95	0.30	0.41	<0.01	0.02	0.05	0.01	0.01	0.04	28.4
W443002		0.04	63.3	15.75	6.46	6.05	4.01	2.80	0.94	0.03	0.47	0.10	0.11	0.03	0.05	1.65
W443003		2.59	49.5	15.45	14.65	9.52	7.83	2.30	0.35	0.01	1.19	0.19	0.12	0.02	0.01	-0.23
W443004		2.40	48.9	15.40	14.75	9.53	8.15	2.25	0.33	0.02	1.06	0.20	0.10	0.02	0.01	-0.21
W443005		2.27	49.4	16.15	13.85	9.01	7.77	2.57	0.49	0.01	0.88	0.20	0.09	0.02	0.01	0.58
W443006		2.67	52.6	13.35	13.20	10.85	8.52	2.10	0.30	0.02	0.96	0.22	0.08	0.01	0.01	-0.34
W443007		2.58	48.8	15.60	14.00	9.77	8.40	2.20	0.33	0.02	0.92	0.19	0.10	0.01	0.01	-0.40
W443008		2.53	48.5	15.50	14.80	9.44	8.98	2.16	0.29	0.01	0.94	0.19	0.09	0.01	0.01	-0.53
W443009		2.58	48.7	15.55	14.85	9.84	8.15	2.21	0.30	0.03	0.96	0.19	0.11	0.01	0.01	-0.45
W443010		2.65	47.7	15.85	13.55	9.33	8.65	2.22	0.27	0.01	0.91	0.18	0.08	0.02	0.01	-0.15
W443011		2.78	47.7	16.00	14.10	9.05	10.25	2.11	0.24	0.01	0.72	0.18	0.08	0.02	0.01	-0.51
W443012		2.42	49.1	17.40	12.45	10.05	7.65	2.37	0.28	0.01	0.91	0.17	0.08	0.02	0.01	-0.37
W443013		2.51	49.0	15.85	13.75	9.95	8.61	2.21	0.33	0.02	0.92	0.18	0.07	0.01	0.01	-0.45
W443014		2.18	48.4	15.80	14.40	9.69	9.45	2.19	0.29	0.01	0.94	0.19	0.10	0.02	0.01	0.02
W443015		2.71	47.4	15.55	13.70	9.69	8.65	2.18	0.26	0.01	0.93	0.18	0.09	0.02	0.01	-0.33
W443016		2.59	48.3	15.85	13.95	9.86	8.84	2.23	0.29	0.01	0.99	0.18	0.10	0.02	0.01	-0.40
W443017		2.61	48.8	15.95	14.10	10.05	8.70	2.22	0.30	0.01	0.97	0.19	0.10	0.02	0.01	-0.26
W443018		2.47	48.5	15.75	14.10	9.89	8.52	2.24	0.33	0.01	1.01	0.19	0.11	0.02	0.01	-0.22
W443019		2.60	48.6	15.90	13.80	9.99	8.07	2.28	0.32	0.01	1.03	0.18	0.10	0.01	0.01	-0.31
W443020		2.54	49.1	15.75	14.15	9.66	7.91	2.27	0.39	0.01	1.07	0.20	0.11	0.01	0.01	-0.22
W443021		0.04	47.0	12.85	20.5	6.10	6.56	2.14	0.64	0.03	1.24	0.19	0.15	0.03	0.02	1.18
W443022		2.42	48.3	15.15	13.90	9.67	7.63	2.29	0.43	0.01	1.09	0.19	0.12	0.01	0.01	0.23
W443023		2.55	48.9	15.40	14.35	9.69	7.44	2.28	0.35	0.01	1.16	0.19	0.11	0.02	0.01	-0.17
W443024		2.75	49.0	15.00	14.25	9.55	6.87	2.58	0.73	0.01	1.25	0.19	0.13	0.02	0.02	0.97
W443025		1.91	48.7	14.25	14.70	9.58	6.51	2.44	0.67	0.01	1.34	0.21	0.12	0.02	0.02	0.56
W443026		2.53	50.1	14.15	14.95	9.46	6.16	2.33	0.57	0.01	1.36	0.21	0.15	0.01	0.02	0.05
W443027		3.04	48.4	13.85	14.90	9.47	6.13	2.33	0.44	0.01	1.36	0.21	0.14	0.01	0.02	-0.15
W443028		2.38	48.8	13.55	14.25	9.77	6.88	2.47	0.80	0.01	0.79	0.23	0.05	0.02	0.02	0.79
W443029		2.56	49.9	13.45	14.25	9.63	7.21	2.91	0.61	0.01	0.78	0.22	0.06	0.02	0.02	1.11
W443030		2.40	48.9	13.60	13.95	9.54	6.66	2.53	0.90	0.01	0.79	0.23	0.06	0.02	0.02	1.20
W443031		2.81	49.6	13.95	14.70	8.70	7.36	2.69	1.10	0.01	0.81	0.25	0.05	0.01	0.02	1.22
W443032		2.38	48.7	11.60	13.30	10.05	7.79	1.55	1.33	0.01	0.74	0.26	0.06	0.01	0.04	2.01
W443033		2.54	47.8	11.40	13.90	10.80	9.11	0.95	1.63	0.01	0.67	0.35	0.06	0.01	0.04	1.87
W443034		2.72	47.6	11.50	15.10	12.25	9.44	1.37	0.84	0.01	0.63	0.25	0.06	0.01	0.03	1.59
W443035		2.47	48.9	14.00	13.85	7.29	8.08	1.15	1.88	0.01	0.79	0.28	0.06	0.01	0.04	1.83
W443036		2.35	56.3	13.55	12.90	4.46	6.57	0.65	1.93	0.01	0.63	0.28	0.07	0.01	0.04	1.60
W443037		1.89	58.0	14.25	9.43	5.13	5.10	1.11	2.90	0.01	0.41	0.18	0.07	0.01	0.06	2.49
W443038		2.40	68.9	13.55	5.08	2.41	2.26	0.82	3.12	<0.01	0.25	0.07	0.10	0.01	0.06	2.60
W443039		2.07	71.4	14.10	3.70	2.15	1.73	0.63	4.11	<0.01	0.26	0.05	0.10	<0.01	0.06	2.33
W443040		1.90	66.6	13.55	6.36	2.27	2.34	1.26	3.14	<0.01	0.25	0.15	0.09	0.01	0.06	2.64

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Finalized Date: 7-FEB-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18010723

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
W443001		96.85	8.21	0.03	347	2.0	10	0.66	0.10	0.08	0.04	0.8	0.14	<5	0.3	0.02
W443002		101.75	0.10	0.08	454	50.1	280	0.68	2.73	1.71	0.81	15.1	2.68	<5	2.5	0.57
W443003		100.91	0.01	0.03	129.0	18.3	130	0.72	4.32	2.73	1.17	20.6	4.23	<5	2.3	0.96
W443004		100.51	0.02	0.03	119.5	14.8	160	0.77	3.67	2.12	1.04	18.5	3.17	<5	1.9	0.73
W443005		101.03	0.03	0.02	133.5	13.5	100	0.86	3.23	1.99	0.98	18.8	3.01	<5	1.8	0.70
W443006		101.88	0.01	0.02	95.4	12.6	130	0.30	3.48	2.21	0.92	17.7	3.14	<5	1.7	0.71
W443007		99.95	<0.01	0.02	134.5	14.3	140	0.59	3.49	2.21	1.05	19.2	3.25	<5	1.8	0.76
W443008		100.39	0.01	0.01	101.5	13.9	120	0.61	3.59	2.21	1.01	18.3	3.07	<5	1.7	0.72
W443009		100.46	<0.01	0.02	109.0	15.6	240	0.51	3.65	2.32	1.04	18.7	3.41	<5	2.1	0.77
W443010		98.63	0.02	0.02	102.5	14.3	110	0.50	3.51	2.20	1.04	19.3	3.25	<5	1.8	0.75
W443011		99.96	0.01	0.01	80.3	9.9	80	0.52	2.53	1.59	0.82	17.5	2.26	<5	1.2	0.54
W443012		100.13	0.01	0.02	95.8	13.2	100	0.41	3.19	1.93	0.92	19.1	2.96	<5	1.6	0.67
W443013		100.46	0.01	0.02	94.9	12.5	180	0.60	3.30	1.91	0.92	18.0	2.90	<5	1.6	0.65
W443014		101.51	0.02	0.02	115.0	15.2	80	0.51	3.57	2.07	0.93	18.8	3.10	<5	1.6	0.70
W443015		98.34	0.01	0.01	100.5	13.6	80	0.44	3.38	1.96	0.90	19.5	2.98	<5	1.5	0.68
W443016		100.23	<0.01	0.01	111.5	14.6	90	0.58	3.88	2.39	0.99	21.3	3.46	<5	1.8	0.74
W443017		101.16	0.01	0.01	109.0	13.7	90	0.67	3.70	2.28	0.92	20.3	3.19	<5	1.6	0.73
W443018		100.46	0.01	0.01	129.0	15.2	80	0.65	3.84	2.33	0.97	20.2	3.36	<5	1.8	0.75
W443019		99.99	0.01	0.01	122.0	15.4	80	0.64	3.86	2.39	1.03	20.8	3.59	<5	2.0	0.78
W443020		100.42	0.01	0.02	123.0	16.5	90	0.97	3.96	2.36	1.07	19.1	3.68	<5	2.1	0.83
W443021		98.63	0.07	1.71	235	28.3	260	0.98	2.52	1.49	1.21	15.4	2.94	<5	2.3	0.54
W443022		99.03	0.01	0.01	140.0	17.1	90	0.94	4.05	2.48	1.14	19.4	3.63	<5	2.2	0.85
W443023		99.74	0.01	0.01	126.5	16.6	90	0.70	4.09	2.57	1.10	19.5	3.92	<5	2.1	0.89
W443024		100.57	0.02	0.02	164.5	18.8	90	1.00	4.46	2.72	1.19	19.3	4.09	<5	2.3	0.98
W443025		99.13	0.02	0.03	174.5	20.7	110	1.01	4.93	3.08	1.35	20.4	4.52	<5	2.7	1.02
W443026		99.53	0.01	0.01	182.0	22.5	110	1.04	5.25	3.07	1.34	20.1	4.79	<5	2.7	1.08
W443027		97.12	0.01	0.02	156.5	21.5	110	1.07	5.44	3.20	1.42	21.0	4.94	<5	2.7	1.13
W443028		98.43	0.03	0.07	152.5	8.4	70	2.58	2.94	1.86	0.75	15.8	2.48	<5	1.2	0.60
W443029		100.18	0.04	0.12	131.0	7.9	70	2.54	2.64	1.65	0.75	14.2	2.19	<5	1.1	0.60
W443030		98.41	0.05	0.12	176.0	8.1	70	1.87	2.88	1.89	0.77	16.9	2.49	<5	1.3	0.67
W443031		100.47	0.06	0.25	181.5	7.4	60	1.84	2.45	1.53	0.63	13.5	2.04	<5	1.0	0.53
W443032		97.45	0.05	0.67	349	14.2	60	2.67	2.49	1.70	0.74	13.7	2.37	<5	1.5	0.57
W443033		98.60	0.04	0.09	420	6.7	60	2.52	2.59	1.56	0.72	12.7	2.17	<5	0.9	0.50
W443034		100.68	0.04	0.06	260	18.2	50	1.36	2.17	1.39	0.68	13.9	2.10	<5	1.4	0.49
W443035		98.17	0.03	0.26	448	11.2	100	3.59	2.77	1.82	0.75	16.2	2.52	<5	1.4	0.61
W443036		99.00	0.01	0.45	388	23.8	80	6.08	2.54	1.64	0.81	17.7	2.39	<5	2.1	0.52
W443037		99.15	0.02	0.98	578	36.0	100	4.82	1.48	0.84	0.68	19.0	1.61	<5	2.6	0.29
W443038		99.23	0.01	0.65	529	45.6	10	1.84	0.96	0.54	0.54	19.7	1.46	<5	3.2	0.17
W443039		100.62	0.01	0.48	546	54.0	10	1.12	1.00	0.45	0.56	20.8	1.42	<5	3.4	0.16
W443040		98.72	0.01	1.32	539	48.2	10	2.78	1.03	0.54	0.69	19.8	1.49	<5	3.4	0.17

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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
W443001		1.3	0.02	0.3	0.7	0.20	8.7	0.15	<1	149.5	<0.1	0.02	0.31	0.01	0.54	5
W443002		12.4	0.27	3.7	12.0	2.79	19.7	2.23	2	303	0.2	0.43	1.69	0.25	0.88	125
W443003		8.1	0.40	4.5	11.8	2.58	9.4	3.26	1	171.0	0.3	0.67	1.06	0.40	0.31	334
W443004		6.6	0.32	3.6	9.7	2.09	8.5	2.54	1	156.0	0.2	0.56	0.90	0.33	0.26	285
W443005		6.0	0.28	3.2	8.9	1.84	13.0	2.49	1	166.0	0.2	0.49	1.05	0.29	0.49	259
W443006		5.4	0.33	3.0	8.6	1.79	6.9	2.42	<1	149.5	0.2	0.55	0.73	0.33	0.22	353
W443007		6.2	0.30	3.6	9.4	1.99	7.8	2.66	2	170.0	0.2	0.57	0.94	0.33	0.26	282
W443008		6.1	0.30	3.4	9.0	1.97	7.5	2.65	1	159.5	0.2	0.55	0.81	0.29	0.23	273
W443009		6.9	0.32	3.8	10.0	2.14	7.9	2.82	1	164.5	0.2	0.57	0.95	0.34	0.25	246
W443010		6.3	0.32	3.6	9.0	2.06	7.2	2.57	1	181.5	0.2	0.54	0.86	0.30	0.24	271
W443011		4.3	0.22	2.4	6.3	1.37	5.6	1.95	1	164.5	0.1	0.35	0.56	0.22	0.16	211
W443012		5.7	0.26	3.1	8.3	1.80	6.4	2.33	1	169.5	0.2	0.52	0.80	0.27	0.20	251
W443013		5.5	0.28	3.1	8.3	1.78	6.8	2.36	<1	157.0	0.2	0.52	0.80	0.28	0.21	269
W443014		6.6	0.27	4.7	9.5	2.07	7.3	2.41	<1	169.5	0.2	0.51	0.94	0.27	0.25	243
W443015		5.8	0.29	3.5	8.9	1.93	6.8	2.51	<1	159.5	0.2	0.51	0.79	0.29	0.23	257
W443016		6.4	0.34	3.8	9.5	2.04	8.5	2.66	1	167.5	0.2	0.59	0.97	0.33	0.23	288
W443017		5.8	0.31	3.5	9.0	1.91	7.9	2.45	<1	161.0	0.2	0.55	0.86	0.31	0.23	273
W443018		6.7	0.30	3.8	9.6	2.09	8.8	2.76	1	162.5	0.2	0.59	0.91	0.32	0.26	264
W443019		6.7	0.31	3.7	10.0	2.17	8.4	2.68	2	165.5	0.2	0.61	1.00	0.33	0.24	285
W443020		7.4	0.34	4.3	10.6	2.31	10.4	3.08	1	164.5	0.2	0.61	1.16	0.36	0.27	294
W443021		12.9	0.20	7.2	14.5	3.49	17.0	3.22	4	274	0.5	0.41	1.53	0.20	0.46	129
W443022		7.4	0.34	4.1	10.7	2.35	13.4	3.05	1	168.5	0.2	0.65	1.00	0.36	0.39	314
W443023		7.2	0.35	4.2	10.8	2.33	9.0	3.16	1	168.0	0.2	0.64	1.02	0.36	0.29	327
W443024		8.3	0.37	4.4	11.8	2.47	22.1	3.23	1	170.0	0.3	0.69	1.09	0.43	0.53	338
W443025		9.3	0.40	5.1	13.0	2.84	21.3	3.72	1	163.5	0.3	0.77	1.26	0.45	1.08	382
W443026		10.0	0.45	5.4	13.6	3.11	16.5	4.01	1	158.0	0.3	0.82	1.40	0.44	0.48	385
W443027		9.4	0.45	5.2	14.1	2.92	13.8	4.13	1	158.0	0.3	0.83	1.35	0.50	0.44	393
W443028		3.3	0.27	2.2	6.2	1.26	24.1	2.04	<1	178.5	0.1	0.46	0.29	0.28	0.10	304
W443029		3.1	0.26	1.9	5.8	1.15	15.6	1.85	2	169.0	0.1	0.40	0.22	0.25	0.10	281
W443030		3.1	0.27	2.2	6.0	1.24	29.3	2.04	<1	219	0.1	0.46	0.24	0.29	0.08	337
W443031		3.0	0.25	1.8	5.4	1.09	27.8	1.51	<1	137.0	0.1	0.37	0.23	0.23	0.14	282
W443032		6.6	0.26	2.4	7.7	1.86	34.3	2.09	1	104.5	0.1	0.40	0.70	0.26	0.28	220
W443033		2.8	0.23	1.8	4.8	1.00	44.0	1.54	1	143.5	0.1	0.39	0.21	0.22	0.13	267
W443034		9.2	0.21	2.2	8.2	2.10	20.7	1.89	1	105.5	0.1	0.36	0.87	0.21	0.50	227
W443035		4.9	0.29	2.2	7.1	1.51	58.6	2.07	<1	156.0	0.1	0.45	0.41	0.29	0.11	315
W443036		12.8	0.25	3.3	10.2	2.88	56.1	2.11	<1	113.5	0.2	0.39	2.23	0.24	0.69	215
W443037		21.2	0.13	3.4	12.6	4.02	77.6	1.91	1	148.5	0.3	0.25	3.61	0.12	0.95	136
W443038		25.8	0.08	4.3	15.6	5.02	78.1	2.00	1	73.4	0.4	0.18	5.63	0.08	1.29	39
W443039		30.6	0.07	4.5	17.9	5.92	99.9	2.39	1	58.6	0.4	0.19	5.76	0.07	1.38	43
W443040		27.7	0.08	4.2	16.5	5.31	80.5	2.15	1	101.5	0.4	0.20	5.45	0.08	1.46	40

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

Project: Gfields

CERTIFICATE OF ANALYSIS TB18010723

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
W443001		1	0.9	0.12	18	0.5	0.03	<0.005	0.005	<0.001	0.07	0.2	0.01	0.05	<0.5	<0.5
W443002		1	16.3	1.62	91	7.9	0.12	0.046	0.025	0.004	0.73	0.3	0.17	0.07	0.5	<0.5
W443003		<1	25.4	2.46	82	0.5	0.02	<0.005	0.020	0.001	<0.05	0.4	0.01	0.09	<0.5	0.8
W443004		1	21.1	2.05	69	0.3	0.02	<0.005	0.018	0.001	<0.05	0.3	<0.01	0.08	<0.5	0.7
W443005		<1	18.4	1.84	63	0.3	0.03	<0.005	0.015	0.001	<0.05	0.3	0.01	0.35	<0.5	0.7
W443006		<1	20.4	1.93	57	0.4	0.01	<0.005	0.007	0.001	<0.05	0.3	0.02	0.03	<0.5	0.7
W443007		<1	20.4	2.05	68	0.4	0.02	<0.005	0.021	<0.001	<0.05	0.5	0.01	0.06	<0.5	0.7
W443008		<1	19.4	1.98	61	0.1	<0.01	<0.005	<0.005	<0.001	<0.05	0.2	<0.01	<0.02	<0.5	0.7
W443009		2	21.2	2.05	72	0.4	0.02	<0.005	0.022	0.001	<0.05	0.3	<0.01	0.05	<0.5	1.0
W443010		2	20.1	1.95	65	0.4	0.02	<0.005	0.018	<0.001	<0.05	0.3	0.01	0.04	<0.5	0.6
W443011		<1	14.1	1.44	46	0.2	0.01	<0.005	0.016	<0.001	<0.05	0.3	<0.01	0.07	<0.5	0.7
W443012		1	18.4	1.80	58	0.4	0.02	<0.005	0.016	<0.001	<0.05	0.2	<0.01	0.05	<0.5	0.7
W443013		1	18.1	1.81	58	0.3	0.02	<0.005	0.015	<0.001	<0.05	0.2	<0.01	0.06	<0.5	0.6
W443014		<1	18.2	1.86	62	0.5	0.02	<0.005	0.021	<0.001	<0.05	0.3	<0.01	0.10	<0.5	0.9
W443015		1	18.3	1.88	61	0.3	0.02	<0.005	0.016	0.001	<0.05	0.3	0.01	0.05	<0.5	0.9
W443016		1	20.0	1.99	71	0.6	0.02	<0.005	0.014	0.001	0.07	0.3	0.01	0.06	<0.5	0.9
W443017		<1	18.9	2.07	65	0.6	0.02	<0.005	0.014	0.001	0.05	0.4	<0.01	0.07	<0.5	0.6
W443018		2	20.4	2.15	70	0.4	0.02	<0.005	0.015	<0.001	<0.05	0.3	0.01	0.07	<0.5	0.7
W443019		<1	20.7	2.18	73	0.4	0.02	<0.005	0.016	<0.001	<0.05	0.3	<0.01	0.08	<0.5	1.0
W443020		<1	22.0	2.27	72	0.3	0.02	<0.005	0.015	0.001	<0.05	0.3	0.01	0.08	<0.5	0.8
W443021		4	14.1	1.33	88	4.0	1.84	0.010	0.061	0.005	0.33	4.9	0.66	0.09	2.1	2.1
W443022		1	23.0	2.22	75	0.4	0.03	<0.005	0.016	0.001	<0.05	0.3	0.01	0.51	<0.5	0.7
W443023		<1	23.6	2.31	74	0.5	0.02	<0.005	0.015	<0.001	<0.05	0.2	0.01	0.09	<0.5	0.9
W443024		1	25.3	2.54	83	0.4	0.03	<0.005	0.013	0.001	<0.05	0.5	<0.01	0.32	<0.5	0.8
W443025		4	28.6	2.77	93	0.6	0.03	<0.005	0.015	<0.001	<0.05	0.2	0.01	0.11	<0.5	0.9
W443026		1	29.3	3.02	97	0.4	0.03	<0.005	0.012	<0.001	<0.05	0.3	<0.01	0.14	<0.5	1.0
W443027		1	30.2	2.91	99	0.4	0.03	<0.005	0.011	0.001	<0.05	0.3	0.01	0.13	<0.5	1.0
W443028		1	16.9	1.79	44	0.4	0.03	<0.005	0.010	0.001	0.05	0.4	0.03	0.08	<0.5	1.1
W443029		1	15.7	1.61	40	0.4	0.04	<0.005	0.011	0.001	0.06	0.3	0.01	0.05	<0.5	0.9
W443030		1	17.5	1.87	45	0.3	0.04	<0.005	0.009	0.001	0.06	0.6	0.04	0.07	<0.5	0.8
W443031		1	14.3	1.55	37	0.2	0.05	<0.005	0.012	0.001	0.06	0.5	0.03	0.14	<0.5	0.8
W443032		1	15.0	1.71	53	0.3	0.15	<0.005	0.009	0.001	0.05	0.5	0.03	0.19	<0.5	1.2
W443033		1	14.9	1.45	35	0.4	0.04	<0.005	0.012	0.001	0.05	0.2	0.01	0.10	<0.5	1.1
W443034		1	13.2	1.35	50	0.4	0.03	<0.005	0.026	<0.001	0.08	<0.2	0.01	0.04	<0.5	0.9
W443035		1	16.5	1.76	50	0.7	0.08	<0.005	0.013	0.001	0.09	0.6	0.05	0.23	<0.5	0.8
W443036		1	14.8	1.58	81	0.9	0.12	<0.005	0.016	0.001	0.11	0.3	0.04	0.41	<0.5	1.0
W443037		4	8.2	0.86	98	0.9	0.20	<0.005	0.014	<0.001	0.08	0.3	0.04	0.33	<0.5	0.6
W443038		1	5.4	0.47	133	2.1	0.19	<0.005	0.021	<0.001	0.05	0.2	0.02	0.14	<0.5	0.5
W443039		2	5.0	0.42	140	2.0	0.17	<0.005	0.012	<0.001	<0.05	0.2	0.01	0.09	<0.5	<0.5
W443040		1	5.3	0.53	136	1.5	0.20	<0.005	0.015	<0.001	0.06	0.3	0.03	0.42	<0.5	<0.5

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

Finalized Date: 7-FEB-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18010723

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
W443001		1	1	20	<1	1	6	<1	24	<0.001	<0.005	<0.001	<0.003
W443002		22	103	10	8	209	5	14	59	0.457	0.375	1.830	0.346
W443003		62	196	10	<1	194	5	30	115	0.002	0.006	0.018	0.186
W443004		64	176	10	<1	206	<2	26	122	0.003	0.006	0.016	0.159
W443005		64	130	20	<1	195	<2	23	107	0.005	0.005	0.013	0.117
W443006		49	140	10	<1	113	3	46	98	0.001	<0.005	0.013	0.149
W443007		63	154	10	<1	213	10	25	123	0.003	0.006	0.014	0.152
W443008		67	162	10	<1	232	<2	22	109	0.002	0.008	0.016	0.160
W443009		65	140	10	<1	222	<2	25	109	0.001	<0.005	0.015	0.125
W443010		65	148	10	<1	249	<2	22	97	0.001	0.009	0.015	0.147
W443011		74	116	10	<1	302	3	16	94	0.001	0.010	0.012	0.119
W443012		57	143	10	<1	189	7	24	87	0.002	0.010	0.014	0.150
W443013		66	152	10	<1	219	6	25	100	0.002	0.008	0.014	0.144
W443014		69	154	10	<1	251	6	23	118	0.004	0.007	0.017	0.147
W443015		65	158	10	<1	235	2	23	103	0.001	0.008	0.015	0.157
W443016		66	151	10	<1	227	2	25	99	0.010	0.009	0.016	0.135
W443017		63	159	10	<1	224	2	26	101	0.002	0.008	0.015	0.142
W443018		62	164	10	<1	212	2	26	109	0.006	0.007	0.016	0.142
W443019		60	165	10	<1	196	2	24	104	0.002	0.007	0.016	0.145
W443020		61	171	10	<1	199	3	24	101	0.002	0.008	0.017	0.146
W443021		115	4520	20	4	4420	25	12	107	0.072	0.302	0.624	4.52
W443022		58	172	20	<1	190	4	27	108	0.002	0.008	0.018	0.151
W443023		60	190	10	<1	182	5	28	112	0.003	0.007	0.018	0.159
W443024		52	178	30	<1	145	8	32	88	0.003	0.007	0.021	0.195
W443025		53	202	20	<1	122	7	35	112	0.003	<0.005	0.021	0.143
W443026		54	225	20	<1	112	7	36	129	0.006	0.005	0.021	0.171
W443027		54	220	10	<1	107	3	36	119	0.004	0.005	0.022	0.168
W443028		56	127	30	<1	70	5	41	80	0.003	0.018	0.022	0.241
W443029		55	119	30	<1	71	3	40	75	0.002	0.018	0.021	0.343
W443030		53	152	30	<1	66	<2	42	87	0.003	0.016	0.020	0.349
W443031		55	143	30	<1	74	5	44	100	0.002	0.018	0.023	0.344
W443032		29	76	60	<1	43	2	31	122	<0.001	0.013	0.015	0.308
W443033		35	25	70	<1	45	2	34	70	0.001	0.015	0.019	0.110
W443034		31	23	60	<1	37	<2	25	47	<0.001	0.012	0.011	0.037
W443035		52	129	70	<1	78	2	37	64	0.001	0.020	0.024	0.377
W443036		37	108	70	<1	53	5	29	81	0.001	0.008	0.010	0.301
W443037		26	61	80	<1	38	3	19	130	<0.001	0.006	0.006	0.206
W443038		11	24	70	<1	4	8	5	247	0.001	<0.005	<0.001	0.052
W443039		14	20	60	<1	7	<2	5	107	<0.001	<0.005	0.001	0.033
W443040		28	50	70	<1	9	6	5	78	<0.001	<0.005	0.001	0.077

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556 TENTH AVE.
THUNDER BAY ON P7B 2R2

Finalized Date: 7-FEB-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18010723

Sample Description	Method	WEI-21	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	OA-GRA05
	Analyte	Recvd Wt.	SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O	Cr2O3	TiO2	MnO	P2O5	SrO	BaO	LOI
	Units	kg	%	%	%	%	%	%	%	%	%	%	%	%	%	%
	LOR	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
W443041		1.34	15.05	0.13	0.14	25.5	21.6	0.12	0.07	<0.01	0.01	0.05	0.01	0.01	0.02	29.0
W443042		2.15	62.7	13.65	9.60	3.58	3.35	1.13	2.65	<0.01	0.32	0.39	0.07	0.01	0.05	2.20
W443043		2.75	48.6	14.65	14.20	10.35	7.45	1.39	1.29	0.03	0.87	0.29	0.06	0.01	0.02	1.34
W443044		2.51	45.0	8.94	26.4	1.91	2.50	0.50	1.04	<0.01	0.20	0.27	0.04	<0.01	0.02	10.60
W443045		2.09	62.6	12.60	14.15	1.81	3.17	0.66	2.22	<0.01	0.23	0.58	0.09	0.01	0.04	3.09
W443046		2.67	67.2	13.00	9.88	1.57	3.20	0.54	2.80	<0.01	0.27	0.28	0.07	0.01	0.04	2.16
W443047		2.57	65.7	11.95	10.75	1.77	2.58	0.55	2.53	<0.01	0.22	0.29	0.06	0.01	0.04	2.79
W443048		1.71	7.25	1.09	44.9	0.75	0.83	0.07	0.06	<0.01	0.06	0.05	0.03	<0.01	<0.01	29.6
W443049		3.23	7.14	0.43	37.2	0.95	0.55	0.04	0.03	<0.01	0.02	0.03	0.01	<0.01	<0.01	30.3
W443050		3.27	2.89	0.32	39.6	0.92	0.51	0.03	<0.01	<0.01	0.02	0.03	0.02	<0.01	<0.01	32.0
W443051		3.86	3.93	0.42	39.2	1.56	1.08	0.03	0.02	<0.01	0.04	0.05	0.01	<0.01	<0.01	31.1
W443052		3.72	6.52	0.59	33.4	0.72	0.66	0.03	0.03	0.01	0.03	0.03	0.01	<0.01	<0.01	30.7
W443053		4.94	2.43	0.31	33.9	1.00	0.56	0.02	0.01	<0.01	0.01	0.02	0.01	<0.01	<0.01	32.3
W443054		3.84	9.46	0.25	28.1	0.94	0.67	0.02	0.02	<0.01	0.01	0.03	<0.01	<0.01	<0.01	29.8
W443055		2.27	6.15	0.69	32.0	0.65	0.79	0.04	0.03	<0.01	0.03	0.04	0.01	<0.01	<0.01	30.8
W443056		3.20	3.33	0.46	41.8	1.85	0.96	0.03	0.02	<0.01	0.03	0.03	0.01	<0.01	<0.01	31.5
W443057		3.27	6.87	1.51	38.0	1.69	1.08	0.18	0.18	<0.01	0.06	0.04	0.03	<0.01	0.01	29.8
W443058		1.75	67.8	14.20	5.71	2.73	2.01	2.52	2.59	<0.01	0.28	0.08	0.10	0.02	0.07	1.73
W443059		2.02	67.6	13.90	5.85	3.01	1.29	3.77	1.47	<0.01	0.25	0.19	0.10	0.02	0.05	1.38
W443060		2.75	50.7	13.00	17.05	9.41	5.40	1.83	0.56	<0.01	1.34	0.32	0.11	0.02	0.01	1.09
W443061		0.04	42.4	9.17	15.20	16.15	11.05	0.87	0.23	0.11	0.71	0.14	0.13	<0.01	0.03	4.42
W443062		2.72	49.3	12.90	16.95	8.97	5.10	1.59	0.60	0.01	1.31	0.33	0.11	0.02	0.02	0.96
W443063		1.47	69.0	13.60	5.35	3.73	1.81	2.41	2.46	<0.01	0.25	0.13	0.08	0.02	0.06	1.66
W443064		2.19	67.9	14.45	5.18	2.63	1.53	1.73	3.49	<0.01	0.27	0.18	0.08	0.02	0.08	1.62
W443065		2.18	71.1	14.55	4.62	2.24	0.93	1.69	3.80	<0.01	0.27	0.13	0.09	0.02	0.07	2.09
W443066		2.24	70.6	14.35	4.08	1.95	1.45	1.69	3.40	<0.01	0.26	0.13	0.09	0.01	0.06	1.56
W443067		2.93	68.7	13.60	4.79	2.69	1.46	2.01	2.67	<0.01	0.25	0.10	0.09	0.02	0.05	1.70
W443068		1.94	50.1	12.80	16.30	9.00	5.70	1.62	0.86	0.01	1.49	0.28	0.16	0.02	0.02	0.68
W443069		2.33	48.3	12.90	17.00	9.49	5.82	1.74	0.66	0.02	1.51	0.26	0.17	0.02	0.01	0.82
W443070		2.09	48.8	12.60	17.45	8.41	5.62	1.15	1.03	0.02	1.50	0.30	0.16	0.01	0.02	1.29
W443071		2.53	71.4	13.10	4.99	1.43	1.71	0.65	3.26	<0.01	0.24	0.10	0.08	0.01	0.06	1.88
W443072		2.18	71.7	11.10	7.51	1.43	2.31	0.55	2.20	<0.01	0.21	0.12	0.05	<0.01	0.05	2.14
W443073		2.27	69.2	12.35	8.57	1.33	2.25	0.60	2.81	<0.01	0.23	0.16	0.06	0.01	0.06	2.76
W443074		2.32	67.7	12.45	9.27	1.79	2.45	0.75	2.57	<0.01	0.23	0.38	0.07	0.01	0.05	3.12
W443075		2.37	71.4	11.55	7.66	2.20	2.08	0.87	1.67	<0.01	0.21	0.45	0.06	0.01	0.04	2.36
W443076		2.20	65.6	12.90	6.67	4.88	4.86	1.57	1.80	0.04	0.36	0.33	0.25	0.05	0.06	2.04
W443077		2.32	72.6	12.70	6.39	2.23	1.21	0.97	2.09	<0.01	0.23	0.49	0.07	0.01	0.07	2.10
W443078		0.04	47.0	12.55	20.5	6.19	6.47	2.04	0.62	0.03	1.23	0.19	0.14	0.03	0.02	NSS

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

Project: Gfields

CERTIFICATE OF ANALYSIS TB18010723

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
W443041		91.71	9.38	<0.01	234	1.1	<10	0.78	0.05	0.04	<0.03	0.4	0.08	<5	<0.2	0.02
W443042		99.70	0.02	0.87	470	48.6	40	4.70	1.57	0.83	0.85	19.3	1.86	<5	3.3	0.29
W443043		100.55	0.03	0.26	147.0	7.3	240	2.61	3.45	2.18	0.77	18.3	2.86	<5	1.5	0.72
W443044		97.42	0.02	14.50	150.0	33.3	20	2.90	1.21	0.74	0.61	13.0	1.35	<5	2.0	0.24
W443045		101.25	0.02	2.76	353	55.2	10	5.48	1.80	1.13	0.92	18.6	2.07	<5	3.1	0.35
W443046		101.02	<0.01	0.55	384	44.0	10	5.34	1.25	0.79	0.73	17.4	1.49	<5	2.9	0.23
W443047		99.24	0.02	1.74	312	43.6	10	4.63	1.14	0.70	0.63	15.9	1.59	<5	2.6	0.23
W443048		84.69	0.03	45.4	17.4	5.8	10	0.20	0.51	0.33	0.17	1.8	0.44	<5	0.4	0.10
W443049		76.70	0.07	48.3	7.7	2.4	10	0.12	0.22	0.17	0.05	0.5	0.19	<5	0.3	0.05
W443050		76.34	0.10	49.3	1.9	0.8	<10	0.08	0.16	0.11	0.03	0.5	0.15	<5	<0.2	0.03
W443051		77.44	0.06	47.8	3.7	1.7	10	0.10	0.33	0.21	0.08	0.7	0.31	<5	0.2	0.07
W443052		72.73	0.06	47.4	3.4	1.5	20	0.11	0.21	0.14	0.03	0.7	0.14	<5	0.2	0.04
W443053		70.57	0.10	49.9	3.2	1.0	10	0.06	0.18	0.11	0.03	0.4	0.16	<5	<0.2	0.03
W443054		69.30	0.05	46.0	2.2	1.5	20	0.04	0.09	0.09	0.04	0.3	0.12	<5	<0.2	0.02
W443055		71.23	0.04	47.1	7.8	3.5	20	0.17	0.24	0.16	0.07	0.9	0.23	<5	0.2	0.04
W443056		80.02	0.19	48.7	2.4	1.5	20	0.05	0.20	0.11	0.05	0.6	0.22	<5	<0.2	0.03
W443057		79.45	0.17	45.4	65.9	10.9	10	0.27	0.41	0.21	0.22	2.1	0.56	<5	0.4	0.07
W443058		99.84	0.03	0.50	603	61.8	20	2.84	1.07	0.52	0.89	17.4	1.82	<5	3.3	0.20
W443059		98.88	0.05	0.64	443	50.0	20	2.14	0.97	0.51	0.65	17.1	1.49	<5	3.0	0.18
W443060		100.84	0.03	0.24	123.5	17.8	30	1.34	5.47	3.39	1.33	21.5	4.79	<5	2.7	1.13
W443061		100.61	0.25	2.63	307	21.3	810	0.50	2.88	1.61	0.82	11.7	2.81	<5	2.0	0.54
W443062		98.17	0.03	0.25	156.5	16.3	30	1.23	5.00	3.05	1.13	18.9	4.25	<5	2.4	1.01
W443063		100.56	0.05	0.68	534	54.9	10	2.61	1.11	0.55	0.86	18.7	1.57	<5	3.2	0.18
W443064		99.16	0.01	0.54	614	50.1	10	2.85	0.87	0.51	0.60	17.0	1.35	<5	2.9	0.16
W443065		101.60	0.02	1.03	646	55.3	20	1.83	0.95	0.43	0.64	19.3	1.33	<5	3.5	0.17
W443066		99.63	0.02	0.22	619	56.0	10	2.25	0.90	0.48	0.67	19.4	1.45	<5	3.4	0.17
W443067		98.13	0.02	0.49	536	61.4	10	2.17	1.09	0.50	0.78	19.2	1.46	<5	3.5	0.18
W443068		99.04	0.02	0.31	157.0	20.4	100	1.76	6.34	3.96	1.33	19.9	5.24	<5	3.1	1.20
W443069		98.72	0.01	0.54	136.0	18.8	110	1.19	6.53	4.23	1.41	19.4	5.40	<5	3.0	1.26
W443070		98.36	0.01	0.76	202	19.0	110	2.00	6.10	3.84	1.36	19.4	5.09	<5	3.1	1.27
W443071		98.91	0.01	0.19	571	49.5	10	3.25	0.92	0.45	0.54	17.6	1.46	<5	3.1	0.15
W443072		99.37	0.05	0.73	541	41.2	10	3.64	0.84	0.42	0.61	17.1	1.28	<5	2.8	0.16
W443073		100.39	<0.01	1.54	647	48.7	10	4.68	1.04	0.55	0.59	19.0	1.31	<5	3.0	0.19
W443074		100.84	0.01	2.06	467	46.9	10	3.98	1.10	0.58	0.69	16.3	1.56	<5	2.9	0.19
W443075		100.56	0.01	1.21	370	42.9	20	3.33	0.83	0.53	0.52	15.4	1.15	<5	2.8	0.18
W443076		101.41	0.03	0.58	531	92.5	280	3.19	1.81	0.73	1.52	17.2	3.42	<5	4.2	0.30
W443077		101.16	0.02	1.15	628	48.6	20	2.58	0.92	0.49	0.61	16.6	1.22	<5	2.9	0.17
W443078		97.01	0.08	1.70	221	26.4	240	0.93	2.65	1.35	1.11	16.4	2.70	<5	2.3	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-FEB-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18010723

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
W443041		0.8	0.01	0.8	0.4	0.11	1.8	0.07	<1	127.0	<0.1	0.02	0.12	0.01	0.27	<5
W443042		28.2	0.13	4.0	16.4	5.31	73.6	2.43	1	118.0	0.4	0.29	4.83	0.11	1.29	69
W443043		2.9	0.31	2.2	5.8	1.23	40.5	2.06	1	140.5	0.1	0.51	0.26	0.33	0.06	344
W443044		19.4	0.12	2.9	11.0	3.58	27.8	1.64	<1	62.5	0.2	0.21	3.05	0.11	0.88	51
W443045		32.2	0.17	4.1	18.5	6.05	57.5	2.75	1	87.3	0.4	0.32	4.94	0.15	1.43	32
W443046		25.8	0.12	3.8	14.2	4.78	67.4	2.05	3	83.0	0.3	0.22	4.47	0.12	1.13	35
W443047		24.7	0.10	4.8	15.0	4.89	62.6	1.97	<1	88.1	0.3	0.21	4.51	0.09	0.97	23
W443048		3.0	0.04	1.1	2.6	0.73	2.1	0.56	<1	6.9	<0.1	0.08	0.41	0.04	0.15	15
W443049		1.2	0.03	0.6	1.1	0.30	1.0	0.24	<1	3.6	<0.1	0.04	0.36	0.03	0.12	<5
W443050		0.4	0.01	0.3	0.4	0.11	0.5	0.10	<1	1.6	<0.1	0.03	0.07	0.01	<0.05	6
W443051		0.8	0.02	0.4	1.1	0.26	0.5	0.22	<1	3.0	<0.1	0.05	0.16	0.03	0.07	11
W443052		0.7	0.02	0.3	0.7	0.19	1.5	0.21	<1	2.2	<0.1	0.03	0.16	0.02	0.13	9
W443053		0.4	0.01	0.2	0.5	0.13	0.4	0.12	<1	1.7	<0.1	0.03	0.11	0.02	0.06	6
W443054		0.9	0.01	0.2	0.6	0.17	0.3	0.12	1	1.8	<0.1	0.02	0.09	0.01	0.06	6
W443055		1.9	0.02	0.5	1.4	0.44	1.0	0.30	<1	5.6	<0.1	0.04	0.48	0.02	0.16	8
W443056		0.8	0.01	0.2	0.8	0.19	0.3	0.19	<1	3.6	<0.1	0.04	0.10	0.02	<0.05	10
W443057		6.1	0.03	0.8	4.6	1.36	4.3	0.76	<1	46.0	<0.1	0.08	0.90	0.02	0.28	11
W443058		35.6	0.06	4.5	21.0	6.84	53.2	2.90	<1	191.0	0.4	0.22	5.88	0.08	1.26	32
W443059		29.6	0.07	3.9	16.5	5.29	30.2	2.37	1	152.5	0.3	0.20	5.02	0.06	1.28	25
W443060		7.7	0.52	5.0	12.7	2.79	14.4	3.56	1	180.0	0.3	0.89	0.80	0.51	0.23	437
W443061		10.9	0.22	6.9	11.3	2.88	4.8	2.81	2	68.4	0.4	0.44	2.07	0.23	1.01	199
W443062		7.0	0.43	4.4	11.1	2.51	14.3	3.24	1	182.0	0.3	0.75	0.75	0.45	0.22	397
W443063		31.9	0.06	4.2	18.4	6.14	56.6	2.62	1	182.0	0.4	0.24	5.24	0.06	1.27	28
W443064		28.8	0.08	4.0	16.3	5.55	65.7	2.24	<1	161.0	0.3	0.18	5.08	0.08	1.18	23
W443065		32.2	0.06	4.5	17.7	6.01	79.6	2.42	1	165.5	0.4	0.19	5.58	0.06	1.25	23
W443066		33.0	0.08	4.6	18.3	6.17	71.4	2.46	2	137.0	0.4	0.19	5.82	0.06	1.25	26
W443067		36.4	0.07	4.4	19.7	6.69	59.5	2.56	2	167.0	0.4	0.21	5.78	0.08	1.33	29
W443068		8.9	0.57	5.8	14.2	3.13	23.6	3.91	1	173.5	0.4	0.97	0.89	0.59	0.21	328
W443069		7.7	0.61	5.8	13.8	2.99	16.7	4.25	2	179.5	0.4	0.99	0.63	0.62	0.17	322
W443070		7.5	0.59	5.8	13.8	2.77	27.5	3.99	1	142.5	0.3	0.84	0.66	0.60	0.15	327
W443071		26.9	0.07	4.0	15.8	4.99	72.8	2.10	1	91.1	0.3	0.17	5.31	0.06	1.16	23
W443072		22.5	0.07	3.5	13.5	4.24	49.7	1.81	1	78.5	0.3	0.17	4.60	0.07	1.14	33
W443073		26.2	0.10	4.0	15.8	4.93	65.6	2.05	1	79.8	0.3	0.19	5.25	0.08	1.38	33
W443074		25.8	0.08	3.8	15.5	4.81	60.4	2.15	1	87.5	0.3	0.18	5.33	0.09	1.16	26
W443075		23.5	0.08	3.6	13.8	4.34	42.5	1.71	<1	109.5	0.3	0.15	4.62	0.07	1.09	23
W443076		44.7	0.09	7.5	40.5	10.95	43.6	5.86	1	476	0.5	0.37	7.05	0.10	1.54	42
W443077		27.2	0.09	3.9	15.4	4.86	47.3	2.07	1	120.5	0.3	0.13	4.95	0.07	1.08	26
W443078		11.9	0.21	7.2	13.7	3.24	15.9	2.79	4	260	0.4	0.44	1.74	0.20	0.49	130

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

Finalized Date: 7-FEB-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18010723

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
W443041		1	0.5	0.05	2	0.7	0.06	<0.005	0.005	<0.001	0.10	0.2	0.01	0.08	<0.5	<0.5
W443042		2	8.9	0.86	134	1.1	0.16	<0.005	0.020	<0.001	0.11	0.2	0.03	0.33	<0.5	<0.5
W443043		1	19.3	2.11	52	0.7	0.07	<0.005	0.017	0.001	0.20	0.6	0.06	0.26	<0.5	1.0
W443044		1	7.5	0.81	86	6.4	1.77	0.005	0.023	0.003	0.29	0.9	0.20	0.28	<0.5	0.6
W443045		2	10.2	1.08	127	1.6	0.16	<0.005	0.029	<0.001	0.36	0.5	0.03	0.52	<0.5	<0.5
W443046		1	6.7	0.73	115	1.1	0.08	<0.005	0.024	<0.001	0.24	0.3	0.02	0.65	<0.5	0.6
W443047		1	6.5	0.69	112	2.4	0.26	<0.005	0.013	<0.001	0.36	0.2	0.14	0.80	<0.5	<0.5
W443048		1	2.8	0.26	16	65.5	1.39	<0.005	0.009	0.003	0.81	1.8	0.90	0.23	<0.5	<0.5
W443049		23	1.6	0.17	11	92.4	0.24	<0.005	0.007	0.002	0.73	1.9	0.25	0.07	<0.5	<0.5
W443050		1	1.0	0.07	3	90.7	0.25	<0.005	0.008	0.003	0.80	2.1	0.26	0.11	<0.5	<0.5
W443051		1	2.1	0.15	6	89.7	0.29	<0.005	0.009	0.003	1.27	3.5	0.36	0.15	<0.5	<0.5
W443052		1	1.2	0.13	7	80.4	0.18	0.005	0.006	0.001	0.80	2.4	0.26	0.08	<0.5	<0.5
W443053		1	1.0	0.08	4	80.0	0.19	<0.005	0.006	0.001	0.73	3.1	0.19	0.07	<0.5	<0.5
W443054		7	0.7	0.09	6	72.3	0.17	<0.005	0.006	0.002	0.65	1.8	0.15	0.04	<0.5	<0.5
W443055		<1	1.3	0.14	8	76.2	0.31	<0.005	<0.005	0.001	0.61	1.9	0.21	0.11	<0.5	<0.5
W443056		<1	1.0	0.09	5	78.4	0.33	<0.005	0.006	0.001	0.64	2.8	0.24	0.07	<0.5	<0.5
W443057		1	1.9	0.18	18	68.1	1.80	<0.005	0.007	0.001	0.52	2.3	0.26	0.15	<0.5	<0.5
W443058		1	5.8	0.41	134	1.1	0.10	<0.005	0.010	<0.001	0.09	0.2	0.04	0.32	<0.5	<0.5
W443059		1	5.5	0.45	125	0.8	0.13	<0.005	0.012	<0.001	0.09	0.2	0.04	0.22	<0.5	<0.5
W443060		1	31.0	3.34	100	0.2	0.03	<0.005	0.021	0.001	0.08	0.4	0.03	0.06	<0.5	1.5
W443061		1	15.3	1.39	83	39.6	0.31	0.103	0.049	0.014	1.35	10.6	1.22	0.05	2.5	1.4
W443062		1	27.7	2.98	89	0.3	0.04	<0.005	0.020	0.002	0.07	0.4	0.02	0.07	<0.5	1.0
W443063		1	6.1	0.47	134	0.6	0.09	<0.005	0.012	<0.001	0.06	0.4	0.03	0.15	<0.5	<0.5
W443064		10	5.3	0.45	122	0.8	0.10	<0.005	0.010	<0.001	0.05	0.2	0.03	0.21	<0.5	<0.5
W443065		1	5.0	0.45	144	0.8	0.17	<0.005	0.005	<0.001	0.05	<0.2	0.02	0.10	<0.5	<0.5
W443066		1	5.0	0.46	144	0.1	0.05	<0.005	0.006	<0.001	<0.05	<0.2	0.01	0.19	<0.5	<0.5
W443067		1	5.5	0.53	140	0.8	0.07	0.005	0.013	<0.001	0.06	<0.2	0.02	0.23	<0.5	<0.5
W443068		1	34.6	3.76	115	0.2	0.04	<0.005	0.018	<0.001	0.06	0.6	0.03	0.16	<0.5	1.1
W443069		1	36.9	3.78	114	0.3	0.05	<0.005	0.018	0.003	0.07	0.9	0.05	0.12	<0.5	1.4
W443070		2	34.2	3.85	109	0.6	0.10	<0.005	0.017	0.001	0.07	1.0	0.07	0.24	<0.5	1.3
W443071		1	4.8	0.45	129	0.3	0.03	<0.005	0.010	<0.001	<0.05	<0.2	0.01	0.34	<0.5	<0.5
W443072		2	4.3	0.50	118	0.5	0.07	<0.005	0.012	0.001	0.11	0.2	0.02	0.29	<0.5	<0.5
W443073		2	5.3	0.62	125	1.7	0.23	<0.005	0.014	0.001	0.13	0.3	0.02	0.47	<0.5	<0.5
W443074		1	5.7	0.55	118	1.1	0.29	<0.005	0.008	0.001	0.13	0.2	0.02	0.52	<0.5	<0.5
W443075		4	5.1	0.51	112	1.2	0.13	0.005	0.009	0.001	0.16	0.2	0.02	0.36	<0.5	<0.5
W443076		1	8.5	0.69	172	1.2	0.11	<0.005	0.009	<0.001	0.16	0.2	0.03	0.32	<0.5	<0.5
W443077		1	5.0	0.57	117	1.0	0.12	0.010	0.006	0.001	0.15	<0.2	0.02	0.30	<0.5	<0.5
W443078		3	12.9	1.27	96	4.2	0.82	<0.005	0.063	0.005	0.32	4.3	0.54	0.09	2.2	0.7

***** 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: 7-FEB-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18010723

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
W443041		<1	<1	60	<1	<1	6	<1	26	0.002	<0.005	0.001	<0.003
W443042		16	68	70	1	23	5	9	86	0.001	<0.005	0.004	0.119
W443043		52	137	40	<1	137	4	41	123	0.004	0.016	0.020	0.354
W443044		42	195	80	<1	96	8	6	45	0.005	<0.005	0.002	0.009
W443045		10	41	70	<1	14	8	6	186	0.004	<0.005	<0.001	0.192
W443046		7	24	60	<1	11	2	6	106	<0.001	<0.005	0.001	0.113
W443047		7	8	60	<1	15	8	4	43	0.001	<0.005	0.001	0.182
W443048		95	19	10	<1	120	17	1	8	0.009	<0.005	0.002	0.004
W443049		84	24	10	2	97	11	<1	4	0.003	<0.005	0.001	0.003
W443050		74	32	<10	1	91	9	<1	2	0.016	<0.005	0.002	0.003
W443051		87	32	<10	<1	74	12	1	5	0.007	0.005	0.003	0.007
W443052		74	33	10	<1	51	7	1	4	0.007	<0.005	0.002	0.009
W443053		76	35	<10	<1	46	13	<1	2	0.007	<0.005	0.002	0.008
W443054		42	19	<10	<1	44	10	<1	4	0.003	<0.005	0.001	0.006
W443055		60	16	10	<1	41	9	1	7	0.008	<0.005	0.002	0.004
W443056		74	23	<10	2	52	10	1	6	0.004	<0.005	0.001	0.009
W443057		61	43	10	1	46	13	1	10	0.005	<0.005	0.002	0.010
W443058		9	25	50	<1	15	2	4	101	<0.001	<0.005	0.002	0.092
W443059		8	46	40	<1	10	10	4	34	<0.001	<0.005	0.001	0.185
W443060		42	48	40	<1	42	4	44	110	<0.001	<0.005	0.001	0.213
W443061		151	5460	40	3	2140	10	25	77	0.088	0.646	0.332	11.90
W443062		42	73	30	<1	41	2	43	121	0.002	<0.005	0.001	0.265
W443063		15	42	40	1	10	14	3	69	0.002	<0.005	<0.001	0.389
W443064		9	34	40	1	11	13	4	80	<0.001	<0.005	0.001	0.114
W443065		13	23	40	<1	17	10	4	77	<0.001	<0.005	0.001	0.024
W443066		4	5	40	<1	6	7	3	40	<0.001	<0.005	0.001	0.010
W443067		17	47	40	<1	18	6	4	105	0.001	<0.005	0.001	0.123
W443068		49	84	30	<1	61	7	41	152	<0.001	<0.005	0.001	0.427
W443069		55	139	30	<1	66	6	41	130	<0.001	<0.005	0.002	0.684
W443070		57	168	40	<1	62	6	42	130	<0.001	<0.005	0.002	0.784
W443071		9	14	50	<1	8	6	3	28	<0.001	<0.005	0.001	0.026
W443072		12	37	70	<1	22	2	4	49	<0.001	<0.005	0.001	0.098
W443073		27	45	80	<1	43	4	4	43	<0.001	<0.005	0.001	0.151
W443074		19	45	80	1	50	<2	4	53	0.001	<0.005	0.001	0.099
W443075		10	27	70	<1	37	<2	4	74	0.001	<0.005	<0.001	0.068
W443076		18	9	40	<1	159	3	7	61	<0.001	<0.005	0.002	0.070
W443077		10	28	40	<1	40	10	4	109	<0.001	<0.005	0.001	0.055
W443078		115	4490	20	5	4390	29	12	104	0.075	0.259	0.522	4.96

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To: **NORTH AMERICAN PALLADIUM EXPLORATION**
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Finalized Date: 7-FEB-2018
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CERTIFICATE OF ANALYSIS TB18010723

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

NSS is non-sufficient sample.

Applies to Method: ALL METHODS

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		