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

CERTIFICATE TB18010724

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 TB18010724

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
W443235		0.99	20.4	0.11	0.20	26.0	20.5	0.07	0.08	<0.01	0.01	0.05	0.01	0.02	0.04	31.7
W443236		0.04	42.1	9.09	15.05	15.80	10.85	0.63	0.22	0.10	0.70	0.14	0.12	<0.01	0.03	4.22
W443237		1.94	48.5	14.40	12.55	10.45	8.67	1.92	1.00	0.04	0.83	0.19	0.07	0.01	0.02	1.36
W443238		2.38	48.5	14.50	12.50	9.94	8.43	2.27	0.93	0.03	0.83	0.18	0.06	0.01	0.02	1.41
W443239		1.95	46.6	13.70	14.05	9.72	8.43	2.18	0.80	0.03	0.85	0.21	0.05	0.01	0.02	1.74
W443240		2.43	49.0	14.25	12.90	10.15	7.27	2.45	0.72	0.03	0.88	0.19	0.06	0.01	0.02	1.17
W443241		2.42	48.8	14.60	12.60	11.05	8.15	2.36	0.65	0.03	0.81	0.21	0.05	0.01	0.02	1.31
W443242		2.33	49.1	14.65	12.50	10.10	9.12	2.21	0.53	0.04	0.82	0.20	0.06	0.01	0.01	1.14
W443243		2.42	48.7	14.55	12.10	10.25	8.86	2.50	0.38	0.04	0.81	0.18	0.04	0.01	0.01	1.15
W443244		2.60	48.0	14.55	12.10	9.67	8.68	2.54	0.36	0.04	0.81	0.20	0.07	0.01	0.01	1.21
W443245		2.24	49.0	15.00	12.50	9.47	8.78	2.39	0.40	0.04	0.80	0.20	0.06	0.01	0.01	1.14
W443246		2.47	49.1	15.00	12.60	10.00	8.82	2.60	0.40	0.04	0.83	0.19	0.05	0.01	0.01	1.27
W443247		2.25	48.4	14.55	12.00	9.89	8.90	2.61	0.35	0.04	0.81	0.19	0.05	0.01	0.01	1.12
W443248		2.47	48.0	14.40	11.85	9.94	8.61	2.62	0.44	0.03	0.79	0.18	0.07	0.01	0.01	1.15
W443249		2.35	47.9	14.45	12.05	10.25	8.67	2.41	0.32	0.03	0.82	0.19	0.06	0.01	0.01	0.84
W443250		2.41	48.2	14.90	11.90	10.20	8.72	2.48	0.33	0.04	0.74	0.18	0.05	0.01	0.01	1.06
W443251		2.40	48.6	14.80	11.65	9.91	8.49	2.41	0.39	0.04	0.74	0.20	0.05	0.01	0.01	1.04
W443252		2.43	48.6	14.80	11.80	10.40	8.73	2.73	0.48	0.03	0.75	0.18	0.06	0.01	0.01	1.25
W443253		2.40	49.1	14.70	11.95	9.46	8.92	2.93	0.53	0.03	0.80	0.18	0.07	0.01	0.01	1.30
W443254		2.43	48.5	13.95	14.75	8.86	7.71	2.70	0.66	0.02	0.92	0.22	0.07	0.01	0.02	1.27
W443255		0.04	47.0	12.75	20.8	6.30	6.76	2.12	0.61	0.03	1.26	0.18	0.14	0.02	0.02	0.85
W443256		2.38	47.2	14.15	16.30	7.88	7.11	2.73	0.40	0.01	1.11	0.23	0.08	<0.01	0.01	1.40
W443257		2.14	53.1	13.55	16.25	6.81	5.95	2.83	0.36	<0.01	1.03	0.23	0.09	0.01	0.01	0.35
W443258		2.41	49.9	13.25	15.95	9.08	5.63	2.43	0.46	<0.01	1.00	0.25	0.08	0.01	0.01	0.38
W443259		2.79	48.9	13.25	16.30	8.45	6.06	2.69	0.45	<0.01	1.08	0.23	0.08	0.01	0.01	0.50
W443260		2.33	50.8	13.65	15.65	8.31	6.47	2.75	0.37	0.01	1.00	0.23	0.08	0.01	0.01	0.34
W443261		2.38	49.9	13.85	15.65	8.45	6.54	3.17	0.45	0.01	1.04	0.25	0.07	<0.01	0.01	0.51
W443262		2.08	49.2	13.75	15.20	8.29	6.80	3.13	0.44	0.01	1.00	0.25	0.07	<0.01	0.01	0.64
W443263		2.21	46.6	13.35	15.15	12.75	6.35	1.70	0.42	0.01	0.86	0.25	0.06	<0.01	0.01	1.86
W443264		2.47	49.4	14.25	12.50	8.08	9.05	2.48	0.52	0.04	0.89	0.21	0.06	0.01	0.01	1.35
W443265		2.50	49.1	12.85	14.50	10.65	6.71	2.34	0.34	0.01	1.16	0.22	0.09	<0.01	0.01	1.62
W443266		2.54	48.6	13.95	13.15	9.61	9.80	2.38	0.35	0.07	0.97	0.21	0.07	0.01	0.01	1.09
W443267		2.51	48.6	11.25	13.55	10.70	10.20	1.81	0.26	0.09	1.00	0.23	0.07	0.01	0.01	0.82
W443268		2.41	47.1	12.60	13.40	12.60	9.19	1.83	0.37	0.09	1.05	0.21	0.06	<0.01	0.01	1.53
W443269		2.59	47.8	14.60	12.15	12.85	7.86	2.31	0.46	0.03	0.83	0.18	0.05	0.01	0.01	1.58
W443270		2.56	38.7	11.20	13.20	18.70	8.17	1.38	0.61	0.03	0.64	0.19	0.05	<0.01	0.01	5.99
W443271		2.21	49.9	14.50	12.25	10.05	9.63	2.63	0.29	0.03	0.77	0.20	0.05	0.01	0.01	1.06
W443272		2.18	46.6	14.90	13.40	9.80	9.47	2.40	0.47	0.04	0.90	0.21	0.05	0.01	0.01	1.71
W443273		2.38	49.2	14.35	10.90	13.25	6.13	1.69	0.59	0.03	0.71	0.17	0.05	0.02	0.02	1.70
W443274		2.60	49.1	14.85	12.15	9.39	7.76	2.95	0.48	0.04	0.87	0.20	0.07	0.02	0.01	1.20

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THUNDER BAY ON P7B 2R2

Finalized Date: 7-FEB-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18010724

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
W443235		99.19	8.75	0.02	377	2.2	<10	0.51	0.06	0.04	<0.03	0.2	0.10	<5	<0.2	0.01
W443236		99.05	0.24	2.64	284	19.3	790	0.44	2.51	1.56	0.74	10.6	2.75	<5	2.1	0.52
W443237		100.01	0.06	0.19	167.5	10.3	260	3.52	3.14	2.04	0.78	15.2	2.56	<5	1.3	0.68
W443238		99.61	0.02	0.19	173.5	7.8	260	4.07	3.05	2.00	0.71	15.9	2.68	<5	1.4	0.69
W443239		98.39	<0.01	0.19	189.0	13.6	240	2.12	3.25	2.22	0.97	14.9	2.87	<5	1.5	0.74
W443240		99.10	0.02	0.42	148.0	7.8	190	2.14	3.07	2.12	0.73	15.7	2.67	<5	1.5	0.69
W443241		100.65	0.03	0.21	155.0	7.5	270	2.63	3.12	2.02	0.81	16.0	2.60	<5	1.4	0.68
W443242		100.49	0.02	0.27	94.3	7.0	270	2.01	3.04	2.16	0.67	15.6	2.57	<5	1.3	0.70
W443243		99.58	0.03	0.22	93.1	7.0	270	3.54	3.17	2.09	0.73	15.5	2.52	<5	1.4	0.66
W443244		98.25	0.03	0.47	82.7	7.2	270	4.15	2.95	2.02	0.72	15.3	2.58	<5	1.3	0.66
W443245		99.80	0.02	0.38	87.5	7.1	260	3.68	3.25	2.04	0.72	15.4	2.48	<5	1.4	0.67
W443246		100.92	0.01	0.34	97.5	7.0	270	4.45	3.18	2.08	0.71	15.0	2.60	<5	1.5	0.70
W443247		98.93	0.01	0.22	83.9	7.3	270	3.74	3.15	1.99	0.72	15.6	2.72	<5	1.4	0.72
W443248		98.10	0.02	0.18	97.4	7.3	270	3.97	3.13	2.16	0.73	15.3	2.47	<5	1.3	0.67
W443249		98.01	<0.01	0.16	78.9	7.3	260	3.30	3.13	2.06	0.69	15.2	2.51	<5	1.3	0.70
W443250		98.82	<0.01	0.09	78.3	6.3	290	2.34	2.75	1.79	0.65	14.1	2.26	<5	1.2	0.60
W443251		98.34	0.05	0.10	85.6	6.4	290	2.84	2.65	1.88	0.66	14.2	2.32	<5	1.2	0.60
W443252		99.83	0.01	0.11	100.0	6.8	240	4.85	2.77	1.91	0.68	13.8	2.28	<5	1.2	0.60
W443253		99.99	0.01	0.12	117.5	8.5	220	2.31	2.99	1.83	0.73	14.0	2.50	<5	1.3	0.62
W443254		99.66	0.04	0.16	138.0	9.6	140	0.61	3.23	2.23	0.96	16.1	2.90	<5	1.5	0.73
W443255		98.84	0.07	1.64	216	27.8	250	1.00	2.62	1.36	1.20	16.2	2.90	<5	2.3	0.51
W443256		98.61	0.01	0.35	79.0	11.8	60	1.59	3.94	2.68	1.01	18.4	3.12	<5	1.9	0.86
W443257		100.57	<0.01	0.29	72.9	9.3	30	0.80	3.56	2.26	0.65	17.3	2.85	<5	1.9	0.74
W443258		98.43	<0.01	0.11	90.8	11.3	30	0.36	4.03	2.54	0.94	18.9	3.41	<5	1.8	0.92
W443259		98.01	0.02	0.17	89.7	12.2	30	0.34	4.18	2.73	1.03	18.8	3.50	<5	2.0	0.96
W443260		99.68	0.01	0.13	75.4	11.2	50	0.22	4.01	2.55	0.99	17.8	3.22	<5	1.8	0.87
W443261		99.90	0.01	0.08	76.3	11.0	60	0.22	3.79	2.62	0.90	18.3	3.38	<5	1.9	0.88
W443262		98.79	0.01	0.10	78.8	10.0	100	0.28	3.76	2.51	0.92	17.5	3.15	<5	1.8	0.79
W443263		99.37	0.12	0.14	96.1	10.4	90	0.62	3.37	2.16	1.24	18.6	2.80	<5	1.5	0.75
W443264		98.85	0.02	0.05	127.0	7.9	280	1.50	3.40	2.32	0.74	15.6	2.76	<5	1.6	0.73
W443265		99.60	0.24	0.14	75.1	12.9	100	0.32	4.72	2.91	1.21	18.8	3.80	<5	2.2	0.97
W443266		100.27	<0.01	0.14	84.0	10.5	510	2.80	3.21	1.94	0.86	16.3	2.82	<5	1.5	0.65
W443267		98.60	<0.01	0.05	43.1	12.9	640	1.53	2.99	1.83	1.02	14.4	3.08	<5	1.7	0.61
W443268		100.04	0.02	0.34	110.0	12.5	660	1.88	3.33	2.07	0.94	15.8	3.05	<5	1.6	0.73
W443269		100.72	0.05	0.30	125.5	10.5	260	2.63	3.16	2.08	0.86	16.3	2.75	<5	1.3	0.69
W443270		98.87	1.45	0.65	122.0	7.7	190	1.72	2.60	1.64	0.71	12.6	2.29	<5	1.0	0.57
W443271		101.38	0.01	0.03	70.5	7.4	260	2.16	2.98	2.05	0.76	16.3	2.34	<5	1.3	0.67
W443272		99.97	0.02	0.17	103.0	8.3	310	3.12	3.36	2.01	0.72	15.8	2.74	<5	1.4	0.72
W443273		98.81	0.06	0.18	134.0	6.7	220	0.77	2.64	1.72	1.15	18.7	2.31	<5	1.1	0.57
W443274		99.09	0.02	0.54	115.5	7.5	250	0.44	3.14	1.94	0.74	15.1	2.52	<5	1.3	0.66

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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
W443235		1.3	0.01	<0.2	0.8	0.24	1.1	0.13	<1	146.0	<0.1	0.01	0.59	<0.01	0.34	<5
W443236		9.4	0.22	6.6	10.4	2.48	4.7	2.67	2	64.6	0.4	0.42	1.96	0.23	0.98	189
W443237		5.4	0.29	2.3	6.5	1.37	31.5	2.17	<1	113.5	0.1	0.45	0.27	0.30	0.26	295
W443238		3.2	0.32	2.3	5.8	1.18	30.4	1.96	<1	125.0	0.1	0.47	0.21	0.30	0.24	301
W443239		7.7	0.32	2.5	8.0	1.75	24.6	2.36	1	115.0	0.1	0.50	0.23	0.32	0.51	298
W443240		2.9	0.30	2.4	6.1	1.22	20.9	1.99	<1	115.5	0.1	0.47	0.24	0.30	0.08	306
W443241		2.9	0.31	2.2	5.8	1.16	18.6	2.02	2	135.0	0.1	0.45	0.22	0.30	0.14	308
W443242		2.6	0.29	2.2	5.7	1.08	14.9	1.94	1	123.0	0.1	0.47	0.19	0.31	0.05	306
W443243		2.6	0.31	2.3	6.0	1.15	10.1	1.98	1	113.5	0.2	0.45	0.20	0.30	0.10	302
W443244		2.8	0.29	2.2	5.6	1.12	9.0	1.87	1	134.5	0.1	0.46	0.20	0.31	0.05	299
W443245		2.7	0.31	2.3	5.9	1.18	10.2	1.86	<1	121.0	0.1	0.46	0.18	0.29	<0.05	303
W443246		2.5	0.29	2.2	5.7	1.10	9.6	1.97	<1	113.5	0.1	0.45	0.21	0.30	0.05	300
W443247		2.7	0.30	2.4	6.0	1.17	8.8	1.97	<1	119.0	0.1	0.48	0.19	0.30	0.05	310
W443248		2.7	0.32	2.3	5.8	1.11	11.3	2.02	3	123.5	0.1	0.45	0.18	0.29	0.08	303
W443249		2.7	0.30	2.3	6.0	1.20	7.2	2.00	<1	126.0	0.1	0.47	0.20	0.29	<0.05	308
W443250		2.4	0.29	2.0	5.1	0.98	7.6	1.64	<1	113.5	0.1	0.42	0.17	0.27	<0.05	275
W443251		2.3	0.27	2.1	5.2	1.03	9.4	1.71	<1	124.0	0.1	0.41	0.19	0.26	<0.05	277
W443252		2.7	0.29	2.0	5.3	1.02	10.1	1.81	<1	125.5	0.1	0.40	0.18	0.27	0.05	265
W443253		3.7	0.28	2.1	6.0	1.20	14.6	1.90	<1	135.5	0.1	0.43	0.20	0.27	0.13	279
W443254		4.1	0.35	2.7	6.9	1.45	18.3	2.20	1	116.0	0.1	0.52	0.28	0.33	0.15	318
W443255		12.6	0.19	7.4	13.7	3.43	16.3	2.94	4	270	0.5	0.41	1.80	0.18	0.59	136
W443256		5.2	0.42	3.2	8.1	1.68	12.7	2.50	1	95.0	0.2	0.57	0.42	0.36	0.19	380
W443257		3.6	0.36	3.1	7.0	1.43	8.9	2.15	<1	91.9	0.2	0.50	0.38	0.36	0.10	349
W443258		4.4	0.41	3.2	8.4	1.64	11.3	2.62	1	123.0	0.2	0.59	0.42	0.37	0.11	352
W443259		5.0	0.44	3.3	8.9	1.77	11.9	2.73	1	122.5	0.3	0.63	0.45	0.40	0.11	376
W443260		4.2	0.42	3.1	8.2	1.69	8.4	2.60	1	114.0	0.2	0.60	0.39	0.38	0.10	353
W443261		4.1	0.38	3.1	8.2	1.66	10.9	2.45	1	117.5	0.2	0.58	0.40	0.38	0.08	366
W443262		3.9	0.38	3.0	7.6	1.50	11.6	2.43	1	118.0	0.2	0.56	0.33	0.36	0.09	356
W443263		4.8	0.33	2.5	7.2	1.47	11.5	2.18	1	59.2	0.2	0.51	0.30	0.30	0.11	315
W443264		2.8	0.33	2.5	6.5	1.27	16.9	1.99	1	146.0	0.2	0.49	0.23	0.32	0.06	339
W443265		5.1	0.44	3.5	9.7	1.96	8.8	3.14	1	98.6	0.2	0.67	0.41	0.42	0.10	373
W443266		4.0	0.26	3.1	7.7	1.58	9.2	2.37	<1	122.0	0.2	0.50	0.38	0.28	0.08	310
W443267		5.1	0.23	3.9	9.3	1.95	3.7	2.67	1	102.5	0.2	0.47	0.53	0.25	0.13	289
W443268		4.9	0.29	3.8	9.1	1.83	8.2	2.48	1	125.5	0.2	0.50	0.49	0.29	0.13	320
W443269		4.5	0.32	4.2	7.5	1.51	11.9	2.22	<1	153.5	0.1	0.50	0.32	0.30	0.23	317
W443270		4.0	0.23	2.5	5.5	1.10	12.7	1.69	<1	110.5	0.1	0.37	0.20	0.22	0.11	245
W443271		2.7	0.30	2.6	5.9	1.17	6.4	1.92	<1	134.0	0.1	0.44	0.21	0.28	<0.05	308
W443272		3.1	0.31	2.9	6.6	1.32	12.0	2.29	<1	142.5	0.2	0.47	0.24	0.30	0.06	330
W443273		2.5	0.24	2.1	5.3	1.05	16.2	1.63	1	163.0	0.1	0.40	0.18	0.24	<0.05	276
W443274		2.8	0.30	2.4	6.0	1.18	13.1	2.00	1	139.0	0.1	0.43	0.22	0.30	<0.05	309

***** 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 TB18010724

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
W443235		1	0.5	0.03	3	0.6	0.03	<0.005	<0.005	<0.001	0.08	<0.2	<0.01	0.07	<0.5	<0.5
W443236		1	14.1	1.30	79	41.4	0.33	0.127	0.053	0.019	1.45	12.2	1.27	0.06	2.8	1.1
W443237		1	18.2	1.85	48	0.2	0.04	<0.005	0.009	0.001	<0.05	<0.2	0.02	0.21	<0.5	<0.5
W443238		<1	18.1	1.99	49	0.2	0.03	<0.005	0.010	0.001	<0.05	0.5	0.01	0.18	<0.5	0.6
W443239		<1	19.5	1.99	53	0.1	0.02	<0.005	0.015	0.001	<0.05	0.2	0.01	0.08	<0.5	0.5
W443240		1	18.5	2.14	52	0.3	0.06	<0.005	0.010	0.002	<0.05	0.7	0.03	0.15	<0.5	0.5
W443241		<1	18.3	2.06	49	0.2	0.03	<0.005	0.011	0.001	0.05	0.5	0.01	0.08	<0.5	<0.5
W443242		1	18.0	2.00	49	0.3	0.02	<0.005	0.007	0.002	<0.05	0.2	0.02	0.08	<0.5	<0.5
W443243		<1	17.9	2.10	48	0.2	0.03	<0.005	0.007	0.001	<0.05	0.4	0.02	0.06	<0.5	0.5
W443244		<1	17.6	1.89	48	0.2	0.04	<0.005	0.011	0.002	<0.05	0.5	0.02	0.06	<0.5	<0.5
W443245		2	17.9	1.96	50	0.4	0.03	<0.005	0.009	0.001	<0.05	0.5	0.03	0.08	<0.5	<0.5
W443246		1	17.8	1.97	48	0.2	0.05	<0.005	0.012	0.001	<0.05	0.5	0.04	0.05	<0.5	0.6
W443247		<1	18.3	2.05	51	<0.1	0.05	<0.005	0.008	0.001	<0.05	0.4	0.02	0.04	<0.5	<0.5
W443248		<1	18.0	1.95	49	<0.1	0.04	<0.005	0.009	0.002	<0.05	<0.2	0.02	0.04	<0.5	0.5
W443249		<1	18.2	2.07	50	0.2	0.04	<0.005	0.007	0.001	<0.05	0.4	0.03	0.03	<0.5	0.5
W443250		<1	15.7	1.70	42	0.4	0.04	<0.005	0.007	0.001	<0.05	0.3	<0.01	0.05	<0.5	<0.5
W443251		1	16.1	1.81	44	0.9	0.04	<0.005	0.010	0.002	<0.05	0.4	0.03	0.04	<0.5	<0.5
W443252		<1	16.0	1.76	43	0.2	0.04	<0.005	0.009	0.001	0.05	0.4	0.02	0.03	<0.5	<0.5
W443253		<1	16.7	1.90	46	0.1	0.04	<0.005	0.011	0.001	0.06	0.3	<0.01	0.03	<0.5	<0.5
W443254		1	19.4	2.12	58	0.3	0.06	<0.005	0.015	0.001	0.06	0.6	0.01	0.06	<0.5	<0.5
W443255		2	13.6	1.18	100	3.8	0.98	0.008	0.069	0.006	0.36	4.8	0.59	0.11	1.9	1.1
W443256		<1	22.7	2.56	71	0.4	0.08	<0.005	0.019	0.002	0.09	0.6	0.03	0.10	<0.5	0.5
W443257		<1	20.6	2.30	66	0.1	0.05	<0.005	0.013	0.002	<0.05	0.4	0.02	0.06	<0.5	0.6
W443258		<1	23.8	2.54	68	0.2	0.03	<0.005	0.016	0.001	<0.05	0.2	0.01	0.02	<0.5	0.6
W443259		1	25.6	2.79	74	<0.1	0.05	<0.005	0.020	0.001	<0.05	0.6	0.01	0.05	<0.5	<0.5
W443260		<1	23.7	2.42	68	0.2	0.05	<0.005	0.016	0.001	<0.05	0.4	0.01	0.04	<0.5	0.5
W443261		<1	23.7	2.48	66	0.2	0.04	<0.005	0.019	0.002	<0.05	0.4	0.01	0.03	<0.5	0.6
W443262		<1	22.7	2.36	64	0.1	0.05	<0.005	0.017	0.001	0.05	0.2	0.02	0.04	<0.5	0.6
W443263		<1	20.2	2.03	55	0.2	0.04	<0.005	0.026	0.002	0.05	0.2	0.01	0.04	<0.5	0.5
W443264		1	20.6	2.06	54	0.7	0.02	<0.005	0.010	0.001	<0.05	<0.2	0.01	0.08	<0.5	<0.5
W443265		<1	27.3	2.74	78	0.4	0.04	<0.005	0.022	0.001	0.05	0.4	0.01	0.04	<0.5	0.5
W443266		<1	18.3	1.77	57	0.5	0.03	<0.005	0.011	0.001	0.05	0.4	0.03	0.05	<0.5	0.5
W443267		<1	17.1	1.65	63	0.1	0.02	<0.005	0.006	<0.001	<0.05	0.3	0.03	0.03	<0.5	0.5
W443268		<1	19.2	1.87	63	0.4	0.06	<0.005	0.016	0.001	<0.05	0.4	0.07	0.05	<0.5	<0.5
W443269		<1	19.6	2.10	50	0.2	0.06	<0.005	0.016	0.003	<0.05	0.4	0.04	0.02	<0.5	<0.5
W443270		<1	16.0	1.59	38	0.3	0.12	<0.005	0.021	<0.001	0.06	0.7	0.10	0.05	<0.5	0.5
W443271		<1	18.3	1.80	46	<0.1	0.01	<0.005	0.008	0.001	<0.05	<0.2	<0.01	0.02	<0.5	<0.5
W443272		<1	19.5	2.03	54	0.4	0.03	0.005	0.014	<0.001	<0.05	0.6	0.03	0.10	<0.5	<0.5
W443273		<1	16.7	1.64	41	0.7	0.02	<0.005	0.018	0.001	0.07	0.2	0.01	0.05	<0.5	0.5
W443274		<1	19.1	1.89	49	0.3	0.04	<0.005	0.009	0.001	<0.05	0.7	0.04	0.05	<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 TB18010724

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
W443235		<1	2	20	<1	<1	4	<1	24	<0.001	<0.005	0.001	0.003
W443236		155	5540	40	2	2160	9	25	76	0.095	0.682	0.364	10.85
W443237		52	125	40	<1	163	<2	35	98	<0.001	<0.005	0.002	0.262
W443238		51	130	40	<1	155	<2	34	85	<0.001	<0.005	0.001	0.319
W443239		49	256	50	<1	149	4	29	85	0.002	<0.005	0.001	0.313
W443240		49	159	30	<1	128	2	40	81	0.004	<0.005	0.001	0.587
W443241		46	111	30	<1	149	<2	31	107	<0.001	<0.005	<0.001	0.360
W443242		50	123	20	<1	159	4	30	104	<0.001	<0.005	0.002	0.371
W443243		45	94	20	<1	153	4	33	72	0.003	<0.005	<0.001	0.271
W443244		47	149	20	<1	150	6	31	121	0.001	<0.005	0.001	0.481
W443245		49	143	20	<1	157	5	31	117	<0.001	<0.005	0.001	0.494
W443246		47	181	30	<1	164	2	32	94	0.002	<0.005	0.002	0.374
W443247		50	94	20	<1	163	4	28	77	<0.001	<0.005	0.001	0.284
W443248		46	95	20	1	152	3	30	71	<0.001	<0.005	0.001	0.292
W443249		47	95	20	<1	156	4	33	97	<0.001	<0.005	<0.001	0.278
W443250		52	119	20	<1	170	5	29	92	0.001	<0.005	0.001	0.273
W443251		51	112	30	<1	164	5	32	113	0.004	<0.005	0.002	0.274
W443252		48	135	30	<1	157	<2	34	91	0.001	<0.005	0.002	0.254
W443253		47	88	30	<1	160	<2	37	53	0.003	<0.005	0.001	0.249
W443254		49	96	40	<1	109	6	39	61	<0.001	<0.005	<0.001	0.326
W443255		113	4410	20	4	4320	25	12	107	0.075	0.355	0.670	4.29
W443256		50	278	40	<1	55	3	43	74	<0.001	<0.005	0.001	0.418
W443257		52	181	20	<1	44	3	41	100	0.003	<0.005	0.001	0.553
W443258		49	111	10	<1	42	<2	42	117	0.001	<0.005	<0.001	0.276
W443259		52	158	20	<1	43	4	42	131	0.003	<0.005	0.002	0.392
W443260		51	139	20	<1	51	<2	43	98	0.001	<0.005	0.001	0.274
W443261		52	151	20	<1	59	<2	44	264	0.002	<0.005	0.001	0.261
W443262		48	124	20	<1	69	23	43	219	<0.001	<0.005	0.001	0.282
W443263		44	139	30	<1	59	4	37	155	0.001	<0.005	<0.001	0.336
W443264		44	63	40	<1	115	2	28	72	0.001	<0.005	<0.001	0.145
W443265		42	103	20	<1	71	2	35	95	<0.001	<0.005	<0.001	0.441
W443266		57	164	30	<1	224	2	26	115	0.002	<0.005	0.003	0.407
W443267		59	79	20	<1	245	<2	35	95	0.003	0.005	0.006	0.142
W443268		57	138	40	<1	203	4	39	90	0.002	<0.005	0.004	0.323
W443269		49	130	30	6	116	2	39	92	0.001	<0.005	0.002	0.301
W443270		55	351	30	<1	108	2	30	76	0.008	0.008	0.002	0.525
W443271		47	42	20	<1	155	4	26	86	<0.001	<0.005	0.001	0.039
W443272		51	136	40	<1	175	4	35	97	<0.001	<0.005	0.002	0.306
W443273		46	123	30	<1	90	<2	35	68	0.001	<0.005	0.001	0.249
W443274		47	232	20	<1	104	3	40	87	0.001	<0.005	0.001	0.683

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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 TB18010724

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
W443275		1.02	28.5	0.10	0.24	22.6	18.20	0.11	0.02	<0.01	0.01	0.04	<0.01	<0.01	0.02	28.5
W443276		2.59	48.3	14.35	11.25	12.65	6.41	2.09	0.48	0.03	0.80	0.18	0.05	0.01	0.01	1.45
W443277		2.44	48.5	15.20	12.15	9.78	7.90	2.78	0.54	0.04	0.87	0.20	0.05	0.01	0.02	1.28
W443278		2.47	47.4	14.75	12.45	10.75	7.74	2.41	0.45	0.03	0.82	0.19	0.04	0.01	0.01	1.10
W443279		2.48	49.5	14.65	14.10	8.99	7.51	3.04	0.47	0.03	1.11	0.22	0.08	0.01	0.01	1.01
W443280		2.54	48.5	14.10	13.75	9.64	7.36	2.91	0.37	0.03	1.05	0.22	0.08	0.01	0.01	0.81
W443281		2.49	50.0	14.35	13.70	8.91	7.41	2.64	0.43	0.03	1.02	0.22	0.06	<0.01	0.01	1.00
W443282		2.65	48.1	14.45	12.25	11.75	6.89	2.07	0.44	0.05	0.90	0.19	0.06	0.01	0.01	1.20
W443283		2.48	47.8	15.15	12.40	8.79	8.21	2.99	0.45	0.04	0.79	0.21	0.06	0.01	0.01	1.46
W443284		2.49	50.6	13.95	11.65	9.33	8.65	3.26	0.51	0.05	0.71	0.19	0.11	0.01	0.01	1.43
W443285		2.11	50.6	14.00	12.55	8.68	7.77	3.57	0.52	0.03	0.87	0.19	0.05	0.01	0.01	1.17
W443286		2.54	49.4	14.80	12.30	8.47	8.36	3.30	0.48	0.04	0.80	0.21	0.05	0.01	0.01	1.28
W443287		2.86	49.7	15.00	12.25	8.50	8.06	3.21	0.57	0.04	0.91	0.21	0.06	<0.01	0.01	1.30
W443288		2.68	48.3	14.35	14.25	9.26	8.49	2.66	0.55	0.03	0.79	0.21	0.05	0.01	0.01	1.35
W443289		2.46	49.1	14.10	13.35	10.75	8.74	2.42	0.65	0.06	0.76	0.22	0.12	0.02	0.02	1.33
W443290		2.68	48.0	13.30	12.70	10.45	9.87	2.16	0.46	0.08	0.69	0.22	0.13	0.02	0.01	1.45
W443291		2.46	49.2	14.30	12.70	10.30	8.35	2.80	0.60	0.04	0.86	0.17	0.07	0.02	0.02	1.90
W443292		2.51	47.6	13.75	12.25	11.80	7.98	2.16	0.67	0.04	0.66	0.17	0.06	0.01	0.01	2.64
W443293		2.36	47.8	12.95	16.85	9.37	6.92	2.19	0.39	0.01	1.64	0.26	0.16	0.01	0.01	1.73
W443294		2.56	47.9	14.00	14.65	11.45	5.90	1.97	0.36	0.02	1.43	0.21	0.14	0.02	0.01	1.22
W443295		0.04	43.2	9.49	15.40	16.45	10.95	0.61	0.29	0.11	0.70	0.15	0.14	0.01	0.03	4.32
W443296		2.62	48.6	14.95	13.90	7.99	7.92	3.16	0.35	0.03	1.15	0.25	0.09	0.01	0.01	0.94
W443297		2.41	48.4	15.05	14.10	8.56	7.95	3.02	0.41	0.03	1.16	0.23	0.10	0.01	0.01	1.15
W443298		2.57	47.2	15.30	11.90	13.20	5.83	1.94	0.36	0.03	0.99	0.17	0.08	0.01	0.01	1.56
W443299		2.42	47.5	15.55	14.80	7.92	7.69	3.07	0.53	0.03	1.21	0.23	0.09	0.01	0.01	1.32
W443300		2.42	49.0	15.25	13.75	9.79	7.68	2.98	0.40	0.03	1.17	0.23	0.11	0.01	0.01	0.80
W443301		2.58	48.5	14.75	13.20	9.89	7.11	2.53	0.41	0.03	1.10	0.21	0.08	0.01	0.01	0.81
W443302		2.50	48.9	15.35	14.45	8.82	7.57	3.03	0.21	0.03	1.20	0.23	0.10	0.01	0.01	0.69
W443303		2.61	48.8	15.30	14.10	9.30	7.64	3.02	0.31	0.03	1.18	0.22	0.10	0.01	0.01	0.76
W443304		2.53	48.2	15.00	13.80	9.39	7.63	2.92	0.38	0.03	1.17	0.22	0.10	0.01	0.01	0.86
W443305		2.58	49.2	14.70	13.85	9.64	7.06	3.01	0.31	0.03	1.05	0.21	0.08	0.01	0.01	0.60
W443306		2.49	49.1	14.50	14.15	9.85	7.27	2.93	0.40	0.03	1.06	0.22	0.08	0.01	0.01	0.87
W443307		2.49	48.1	14.35	14.00	9.79	7.09	2.79	0.40	0.03	1.03	0.22	0.07	0.01	0.01	0.69
W443308		2.38	50.2	14.85	14.05	9.11	7.43	3.14	0.30	0.03	1.06	0.23	0.09	0.01	0.01	0.65
W443309		2.65	49.6	14.60	13.80	9.54	7.24	3.02	0.34	0.03	1.02	0.23	0.09	0.01	0.01	0.66
W443310		2.47	48.7	15.40	15.00	8.22	8.40	2.82	0.23	0.04	1.05	0.25	0.08	0.01	0.01	0.99
W443311		2.44	47.4	14.25	13.35	7.71	8.12	2.94	0.18	0.04	0.79	0.21	0.06	0.01	0.01	1.20
W443312		0.04	47.1	13.00	21.1	6.32	6.81	2.14	0.66	0.03	1.23	0.19	0.15	0.03	0.02	1.03

***** 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 TB18010724

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
W443275		98.34	7.73	0.02	179.5	1.0	<10	0.49	0.05	0.05	<0.03	0.1	0.05	<5	<0.2	0.01
W443276		98.06	0.05	0.12	126.0	7.5	250	0.40	2.97	1.98	0.83	17.4	2.66	<5	1.3	0.67
W443277		99.32	0.03	0.16	138.5	8.1	270	2.02	3.30	2.13	0.80	17.1	2.72	<5	1.4	0.74
W443278		98.15	0.02	0.17	106.0	8.3	260	2.16	3.15	2.06	0.86	17.3	2.65	<5	1.3	0.71
W443279		100.73	0.01	0.35	104.0	10.1	220	0.97	3.85	2.57	0.93	17.1	3.24	<5	1.8	0.82
W443280		98.84	0.03	0.23	83.5	10.0	230	0.68	3.91	2.50	0.90	17.5	3.20	<5	1.9	0.83
W443281		99.78	0.02	0.35	91.5	9.9	250	0.43	3.71	2.37	0.78	16.4	3.07	<5	1.8	0.84
W443282		98.37	0.03	0.13	100.0	8.2	370	0.67	3.24	2.20	0.85	17.6	2.78	<5	1.5	0.72
W443283		98.37	0.02	0.18	110.0	8.2	270	1.09	3.03	2.06	0.65	16.3	2.56	<5	1.4	0.66
W443284		100.46	0.02	0.27	102.5	31.1	350	0.65	2.79	1.82	0.97	14.3	3.15	<5	1.5	0.61
W443285		100.02	0.01	0.48	99.6	8.8	250	0.27	3.37	2.15	0.82	15.2	2.76	<5	1.5	0.72
W443286		99.51	0.02	0.49	112.5	8.2	270	0.43	3.05	1.91	0.70	15.9	2.43	<5	1.4	0.63
W443287		99.82	0.02	0.39	119.5	8.5	280	0.44	3.59	2.31	0.84	17.0	2.85	<5	1.5	0.77
W443288		100.31	0.02	0.17	102.0	7.5	250	0.50	2.92	1.94	0.76	15.5	2.44	<5	1.3	0.65
W443289		101.64	0.02	0.13	133.0	25.4	410	0.34	3.14	1.96	0.98	15.2	3.42	<5	1.6	0.66
W443290		99.54	0.06	0.12	94.8	37.6	620	0.36	3.03	1.86	1.11	14.6	3.86	<5	1.7	0.66
W443291		101.33	0.05	0.54	128.0	15.2	280	1.66	3.15	2.05	1.01	14.6	3.06	<5	1.6	0.68
W443292		99.80	0.17	0.46	122.5	10.5	270	0.42	2.76	1.72	0.96	16.3	2.46	<5	1.3	0.57
W443293		100.29	0.07	0.38	56.6	19.0	110	0.43	5.80	3.87	1.44	19.6	5.47	<5	3.6	1.32
W443294		99.28	0.05	0.24	66.2	15.6	150	0.27	5.24	3.28	1.52	20.9	4.66	<5	2.9	1.13
W443295		101.85	0.25	2.77	293	20.4	840	0.42	2.54	1.45	0.82	10.9	2.81	<5	2.1	0.55
W443296		99.35	0.02	0.20	74.9	11.2	230	0.26	4.08	2.68	0.95	17.7	3.68	<5	2.1	0.90
W443297		100.18	0.02	0.26	87.6	11.0	220	0.32	4.25	2.79	0.96	17.7	3.74	<5	2.2	0.92
W443298		98.58	0.11	0.25	74.4	10.7	200	0.39	3.82	2.53	1.25	21.6	3.53	<5	2.0	0.81
W443299		99.96	0.01	0.40	110.0	11.1	230	0.53	4.18	2.80	0.88	17.7	3.83	<5	2.3	0.92
W443300		101.21	0.03	0.23	84.6	11.7	240	0.26	4.36	3.00	1.01	18.7	3.97	<5	2.3	0.97
W443301		98.64	0.03	0.23	74.5	11.6	230	0.27	4.45	2.86	0.98	18.9	3.75	<5	2.3	0.96
W443302		100.60	0.02	0.28	48.9	11.4	220	0.22	4.40	2.79	0.96	17.1	3.93	<5	2.2	0.94
W443303		100.78	0.03	0.32	69.7	11.8	240	0.28	4.42	2.97	1.08	19.0	4.08	<5	2.2	0.99
W443304		99.72	0.02	0.33	84.1	11.0	220	0.31	4.18	2.86	0.99	17.6	3.69	<5	2.2	0.90
W443305		99.76	0.02	0.19	66.1	10.0	230	0.20	3.92	2.50	0.95	17.3	3.68	<5	2.0	0.87
W443306		100.48	0.01	0.26	103.0	11.7	250	0.47	3.92	2.57	1.09	18.0	3.66	<5	2.1	0.88
W443307		98.58	0.01	0.18	89.9	9.4	240	0.31	3.76	2.36	0.90	17.0	3.17	<5	1.9	0.80
W443308		101.16	0.01	0.22	68.4	9.3	240	0.25	3.66	2.34	0.89	16.4	3.34	<5	1.8	0.82
W443309		100.19	0.02	0.13	56.0	8.7	230	0.21	3.55	2.29	0.85	16.1	3.18	<5	1.8	0.78
W443310		101.20	0.01	0.09	51.1	8.6	250	0.59	3.64	2.38	0.78	15.7	3.12	<5	1.8	0.79
W443311		96.27	0.01	0.27	48.4	6.9	300	0.32	3.26	2.12	0.64	14.8	2.64	<5	1.6	0.72
W443312		99.81	0.07	1.80	213	26.8	250	0.96	2.53	1.40	1.08	15.0	2.94	<5	2.6	0.52

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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 TB18010724

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
W443275		0.8	<0.01	0.3	0.4	0.11	0.8	0.05	<1	107.0	<0.1	0.01	0.13	<0.01	0.20	6
W443276		2.9	0.29	2.2	5.8	1.17	13.9	1.84	2	153.5	0.1	0.44	0.20	0.30	0.08	318
W443277		3.0	0.32	2.4	6.3	1.31	15.3	2.08	<1	169.5	0.1	0.45	0.26	0.31	0.26	331
W443278		3.3	0.30	2.4	6.4	1.28	10.2	2.18	1	147.5	0.1	0.47	0.25	0.29	0.10	309
W443279		3.8	0.37	2.9	8.1	1.60	11.3	2.62	1	139.5	0.2	0.58	0.30	0.38	0.10	346
W443280		3.7	0.35	2.9	7.9	1.58	7.6	2.34	<1	138.0	0.2	0.59	0.29	0.39	0.08	346
W443281		3.6	0.35	2.9	7.7	1.48	12.6	2.46	1	98.4	0.2	0.56	0.28	0.34	0.07	336
W443282		3.0	0.35	2.5	6.7	1.26	13.8	2.15	1	129.0	0.2	0.47	0.22	0.33	0.05	346
W443283		3.2	0.30	2.4	6.1	1.24	14.2	2.01	1	136.5	0.2	0.44	0.25	0.28	0.08	283
W443284		13.4	0.26	2.7	16.6	3.94	13.4	3.44	<1	148.0	0.2	0.48	1.52	0.24	0.38	254
W443285		3.3	0.31	2.5	6.9	1.36	15.4	2.12	<1	140.0	0.1	0.48	0.26	0.33	0.10	309
W443286		3.0	0.30	2.4	6.0	1.29	14.7	2.06	<1	147.5	0.1	0.44	0.25	0.29	0.06	289
W443287		3.1	0.35	2.6	6.8	1.37	17.8	2.26	<1	141.0	0.2	0.50	0.22	0.35	0.06	350
W443288		3.3	0.31	1.9	5.9	1.20	16.1	1.85	<1	139.0	0.1	0.44	0.19	0.26	0.09	326
W443289		11.4	0.29	2.6	14.5	3.43	19.8	3.36	<1	150.0	0.1	0.51	1.26	0.27	0.27	302
W443290		15.7	0.26	2.7	20.9	5.06	13.2	4.25	<1	167.5	0.1	0.55	1.86	0.27	0.44	288
W443291		5.9	0.31	2.5	10.4	2.20	17.4	2.63	1	167.0	0.1	0.52	0.61	0.30	1.40	301
W443292		4.6	0.30	2.0	7.3	1.57	21.7	1.94	<1	113.0	0.1	0.42	0.40	0.27	0.35	281
W443293		7.4	0.63	5.9	13.9	2.82	7.5	4.18	2	114.5	0.4	0.94	0.71	0.57	0.23	443
W443294		6.1	0.50	4.6	11.5	2.38	9.1	3.52	2	133.0	0.3	0.87	0.50	0.52	0.14	390
W443295		9.8	0.22	6.6	10.7	2.57	5.0	2.59	2	66.8	0.4	0.45	2.03	0.23	1.02	195
W443296		4.3	0.43	3.5	8.9	1.72	9.8	2.75	1	136.5	0.2	0.65	0.37	0.40	0.11	357
W443297		4.1	0.44	3.4	8.3	1.71	12.8	2.58	1	125.5	0.2	0.66	0.35	0.41	0.08	352
W443298		4.5	0.36	3.0	8.0	1.67	12.5	2.46	1	135.5	0.2	0.61	0.33	0.37	0.09	328
W443299		4.2	0.41	3.5	8.6	1.71	15.0	2.83	1	120.5	0.2	0.68	0.37	0.39	0.09	363
W443300		4.4	0.44	3.6	9.1	1.80	11.4	2.95	1	143.5	0.2	0.69	0.39	0.44	0.15	369
W443301		4.4	0.43	3.5	8.9	1.73	10.2	2.89	1	135.0	0.2	0.69	0.36	0.41	0.11	371
W443302		4.4	0.44	3.6	8.6	1.76	5.1	2.83	<1	106.0	0.2	0.66	0.35	0.43	0.08	360
W443303		4.4	0.45	3.7	9.2	1.78	7.0	2.94	<1	136.0	0.2	0.71	0.39	0.43	0.09	384
W443304		4.2	0.41	3.5	8.3	1.68	10.0	2.73	1	121.0	0.2	0.65	0.36	0.40	0.11	356
W443305		3.8	0.40	2.9	8.0	1.54	8.3	2.63	1	119.0	0.2	0.61	0.30	0.38	0.07	344
W443306		4.7	0.39	3.1	9.0	1.80	12.4	2.68	<1	151.0	0.2	0.64	0.60	0.40	0.15	357
W443307		3.5	0.36	2.8	7.4	1.46	11.7	2.37	<1	121.5	0.2	0.53	0.32	0.35	0.07	339
W443308		3.6	0.38	2.7	7.5	1.49	7.8	2.40	<1	115.0	0.2	0.57	0.29	0.35	0.07	339
W443309		3.3	0.35	2.6	7.2	1.37	6.4	2.35	<1	113.0	0.2	0.56	0.27	0.35	0.07	320
W443310		3.2	0.37	2.6	6.9	1.42	5.2	2.43	1	97.0	0.2	0.56	0.25	0.36	0.06	342
W443311		2.5	0.33	2.1	5.9	1.18	5.3	1.90	<1	103.5	0.1	0.52	0.19	0.34	0.05	340
W443312		12.4	0.19	7.2	13.6	3.37	15.8	2.71	4	260	0.5	0.45	1.61	0.17	0.50	127

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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 TB18010724

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
W443275		<1	0.5	0.03	2	0.8	0.02	<0.005	<0.005	<0.001	0.08	<0.2	<0.01	0.05	<0.5	<0.5
W443276		<1	18.7	1.94	48	0.8	0.02	<0.005	0.013	0.001	0.08	0.2	0.01	0.04	<0.5	<0.5
W443277		<1	20.0	2.01	53	0.7	0.03	<0.005	0.010	<0.001	0.05	0.5	0.04	0.03	<0.5	<0.5
W443278		<1	19.3	1.90	51	0.3	0.03	<0.005	0.012	<0.001	<0.05	0.3	0.04	0.06	<0.5	<0.5
W443279		<1	23.6	2.51	67	0.6	0.03	<0.005	0.011	0.002	<0.05	0.7	0.03	0.07	<0.5	<0.5
W443280		<1	23.3	2.56	65	0.3	0.03	<0.005	0.010	0.001	<0.05	0.6	0.03	0.04	<0.5	<0.5
W443281		<1	22.5	2.36	64	0.3	0.03	<0.005	0.016	0.001	<0.05	0.4	0.05	0.05	<0.5	<0.5
W443282		<1	20.1	2.06	54	0.5	0.03	<0.005	0.012	0.001	0.05	0.4	0.01	0.04	<0.5	<0.5
W443283		<1	18.1	1.91	50	0.5	0.03	<0.005	0.012	0.001	<0.05	0.5	0.04	0.07	<0.5	<0.5
W443284		<1	17.1	1.63	56	0.2	0.06	0.005	0.014	0.001	0.05	0.6	0.04	0.03	<0.5	<0.5
W443285		<1	19.9	2.02	55	0.3	0.08	<0.005	0.009	0.001	<0.05	0.7	0.08	0.03	<0.5	<0.5
W443286		<1	18.2	1.90	49	0.2	0.05	<0.005	0.010	0.001	<0.05	0.4	0.07	0.05	<0.5	<0.5
W443287		<1	21.4	2.17	55	0.1	0.06	<0.005	0.011	0.001	0.05	0.4	0.05	0.03	<0.5	<0.5
W443288		<1	17.8	1.89	45	0.1	0.04	<0.005	0.015	<0.001	0.06	0.4	0.04	0.04	<0.5	<0.5
W443289		<1	18.4	1.84	59	0.1	0.04	<0.005	0.013	<0.001	0.05	0.3	0.03	0.02	<0.5	<0.5
W443290		1	17.2	1.82	62	0.1	0.04	<0.005	0.011	<0.001	<0.05	0.4	0.04	0.02	<0.5	<0.5
W443291		2	18.7	1.99	54	1.3	0.14	0.007	0.026	<0.001	<0.05	0.8	0.08	0.05	<0.5	0.9
W443292		1	16.2	1.77	44	0.5	0.12	0.006	0.021	0.001	0.05	0.7	0.06	0.04	<0.5	0.6
W443293		1	35.3	3.88	123	0.3	0.07	<0.005	0.026	0.002	<0.05	0.5	0.06	0.06	<0.5	0.5
W443294		1	31.2	3.32	100	0.8	0.04	<0.005	0.021	0.001	0.06	0.4	0.02	0.03	<0.5	<0.5
W443295		1	14.8	1.47	82	44.2	0.33	0.132	0.057	0.017	1.46	12.6	1.49	0.07	2.9	0.7
W443296		1	25.0	2.65	75	0.2	0.03	<0.005	0.016	0.001	<0.05	0.4	0.02	0.03	<0.5	<0.5
W443297		1	24.7	2.78	74	0.4	0.03	<0.005	0.016	0.001	0.06	0.4	0.02	0.05	<0.5	<0.5
W443298		1	22.9	2.46	67	0.8	0.05	<0.005	0.013	0.001	0.08	0.5	0.02	0.04	<0.5	<0.5
W443299		1	25.3	2.73	76	0.3	0.06	<0.005	0.018	0.002	0.06	0.5	0.02	0.07	<0.5	<0.5
W443300		1	26.1	2.76	78	0.2	0.04	<0.005	0.015	0.002	0.12	0.7	0.02	0.04	<0.5	<0.5
W443301		1	25.9	2.87	76	0.3	0.03	<0.005	0.017	0.001	0.12	0.7	0.01	0.04	<0.5	<0.5
W443302		1	25.6	2.69	76	0.4	0.02	<0.005	0.017	0.002	0.13	0.5	0.01	0.05	<0.5	<0.5
W443303		<1	26.8	2.91	79	0.3	0.02	<0.005	0.015	0.001	0.13	0.6	0.01	0.04	<0.5	<0.5
W443304		<1	24.9	2.74	74	0.3	0.04	<0.005	0.015	0.002	0.16	0.7	0.02	0.03	<0.5	<0.5
W443305		<1	23.0	2.48	68	0.3	0.03	<0.005	0.014	0.001	0.15	0.8	0.01	0.04	<0.5	<0.5
W443306		1	24.3	2.63	69	<0.1	0.04	<0.005	0.013	0.001	0.12	0.6	0.01	0.03	<0.5	<0.5
W443307		1	22.4	2.39	63	0.3	0.05	<0.005	0.015	0.001	0.12	0.5	0.01	0.05	<0.5	<0.5
W443308		<1	22.3	2.32	62	1.4	0.03	<0.005	0.013	0.001	0.10	0.7	<0.01	0.03	<0.5	<0.5
W443309		<1	21.4	2.24	59	<0.1	0.02	<0.005	0.013	0.001	0.10	0.5	0.01	0.04	<0.5	<0.5
W443310		1	21.9	2.24	62	0.2	0.01	<0.005	0.017	<0.001	0.07	0.4	0.01	0.05	<0.5	<0.5
W443311		<1	19.4	2.12	50	0.3	0.03	<0.005	0.014	0.001	0.08	0.5	0.03	0.06	<0.5	<0.5
W443312		3	13.5	1.18	98	5.1	1.11	0.008	0.071	0.007	0.35	5.4	0.70	0.11	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: 7-FEB-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18010724

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
W443275		<1	1	20	<1	<1	6	<1	35	<0.001	<0.005	<0.001	0.003
W443276		42	117	30	<1	94	2	39	69	<0.001	<0.005	0.001	0.266
W443277		45	104	30	<1	105	2	35	95	<0.001	<0.005	0.002	0.281
W443278		46	136	20	<1	127	3	40	113	0.001	0.005	0.007	0.291
W443279		47	145	30	<1	104	3	42	96	<0.001	<0.005	0.001	0.759
W443280		48	141	20	<1	107	2	38	84	0.001	<0.005	0.001	0.552
W443281		46	112	20	<1	105	4	39	124	<0.001	<0.005	<0.001	0.420
W443282		49	101	20	<1	105	<2	45	90	<0.001	<0.005	0.001	0.206
W443283		51	142	30	<1	142	11	36	71	<0.001	0.011	0.013	0.353
W443284		52	147	30	<1	149	<2	36	53	<0.001	0.008	0.012	0.349
W443285		50	226	20	<1	119	2	38	61	0.001	<0.005	0.008	0.784
W443286		49	137	30	<1	133	5	35	100	<0.001	0.010	0.012	0.449
W443287		44	131	30	<1	93	4	42	107	<0.001	<0.005	0.001	0.437
W443288		47	122	30	<1	132	3	32	69	0.004	0.016	0.021	0.369
W443289		49	161	20	<1	158	2	34	72	<0.001	0.013	0.018	0.288
W443290		52	114	30	<1	202	<2	29	80	<0.001	0.013	0.016	0.292
W443291		57	212	30	<1	128	41	39	653	0.001	0.012	0.013	0.435
W443292		48	203	40	1	114	38	31	521	0.001	0.008	0.011	0.401
W443293		43	116	30	<1	62	3	36	97	<0.001	0.005	0.006	0.374
W443294		46	106	20	<1	83	<2	37	85	<0.001	<0.005	0.001	0.294
W443295		145	5350	40	3	2070	8	24	73	0.115	0.733	0.363	11.25
W443296		47	107	20	<1	120	3	32	106	<0.001	<0.005	0.001	0.233
W443297		49	120	20	<1	120	3	30	82	<0.001	<0.005	0.001	0.359
W443298		42	133	10	<1	102	<2	33	57	0.001	<0.005	0.001	0.346
W443299		44	110	30	<1	123	4	28	67	<0.001	<0.005	0.001	0.431
W443300		46	116	20	<1	119	<2	36	84	<0.001	<0.005	0.001	0.324
W443301		46	95	20	<1	117	4	37	94	<0.001	<0.005	0.001	0.282
W443302		48	117	10	<1	116	<2	39	94	<0.001	<0.005	0.001	0.330
W443303		46	108	10	<1	112	3	38	90	<0.001	<0.005	<0.001	0.366
W443304		51	105	20	<1	121	<2	37	116	0.002	<0.005	0.001	0.341
W443305		46	111	10	<1	103	<2	38	95	<0.001	<0.005	0.001	0.305
W443306		49	133	20	<1	99	2	39	96	<0.001	<0.005	0.001	0.365
W443307		46	143	20	<1	101	4	39	119	<0.001	<0.005	<0.001	0.305
W443308		48	130	20	<1	102	5	40	108	<0.001	<0.005	0.001	0.381
W443309		47	102	20	<1	97	2	39	95	<0.001	<0.005	0.001	0.257
W443310		50	96	20	<1	112	4	31	97	<0.001	0.005	0.004	0.100
W443311		56	194	20	<1	153	3	34	112	0.001	0.014	0.018	0.431
W443312		111	4330	10	4	4200	24	11	102	0.074	0.326	0.617	4.75

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CERTIFICATE OF ANALYSIS TB18010724

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		