ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
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: 19-SEP-2017
Account: NAPEHZEU

CERTIFICATE TB17186932

Project: Gfields

P.O. No.: 178845

This report is for 50 Rock samples submitted to our lab in Thunder Bay, ON, Canada on 1-SEP-2017.

The following have access to data associated with this certificate:

DAVID BENSON DAVE PECK	LIONNEL DJON KELSEY PRIVETT	JILL MAXWELL

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
LOG-21	Sample logging - ClientBarCode
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 TB17186932

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
R430566		1.43	17.50	0.08	0.19	26.7	21.4	0.04	0.02	<0.01	<0.01	0.06	<0.01	0.02	0.02	32.7
R430567		0.09	44.3	12.05	19.75	5.95	6.49	2.06	0.61	0.03	1.16	0.18	0.16	0.03	0.02	1.33
R430568		1.24	49.4	14.20	14.60	9.76	6.49	2.31	0.55	0.01	1.42	0.21	0.14	0.02	0.02	0.32
R430569		1.64	50.0	13.20	15.20	9.91	5.50	2.32	0.62	0.01	1.58	0.22	0.15	0.02	0.02	0.36
R430570		1.47	49.1	5.25	7.88	16.25	15.40	0.67	0.37	0.22	0.34	0.16	0.15	0.03	0.01	2.12
R430571		1.01	50.0	13.65	15.30	9.59	5.05	2.47	0.63	0.01	1.66	0.23	0.16	0.02	0.02	0.33
R430572		1.56	48.1	12.35	16.30	8.83	4.62	2.49	0.64	0.01	1.66	0.24	0.17	0.02	0.02	0.21
R430573		1.29	46.6	18.25	10.85	8.88	6.00	3.25	1.47	<0.01	0.87	0.16	0.98	0.16	0.09	2.13
R430574		1.38	46.5	13.70	10.25	14.55	9.09	1.66	0.55	0.01	0.50	0.16	0.19	0.10	0.02	2.01
R430575		1.23	56.4	15.85	8.63	8.68	4.42	2.84	0.14	0.03	1.24	0.17	0.24	0.03	0.01	1.43
R430576		0.09	45.1	12.20	20.00	6.06	6.59	2.09	0.61	0.04	1.19	0.19	0.15	0.03	0.02	1.30
R981836		1.29	50.4	15.00	13.25	10.45	7.07	2.39	0.64	0.02	1.21	0.18	0.10	0.03	0.02	0.84
R981837		1.24	49.1	14.10	14.45	9.76	6.42	2.37	0.53	0.01	1.42	0.20	0.13	0.02	0.02	0.19
R981838		0.88	49.3	14.20	14.55	10.05	6.49	2.26	0.50	0.02	1.36	0.21	0.13	0.02	0.02	0.05
R981839		3.27	45.2	8.93	10.60	15.35	13.95	0.66	0.44	0.10	0.36	0.18	0.05	0.04	0.01	2.32
R981840		1.18	48.1	14.20	13.65	10.35	7.57	2.17	0.50	0.03	1.02	0.20	0.10	0.02	0.02	-0.02
R981841		1.65	48.9	14.00	14.30	10.30	7.68	2.16	0.44	0.03	1.21	0.20	0.11	0.02	0.02	-0.13
R981842		1.54	42.9	16.45	9.95	13.55	8.57	1.49	0.86	0.04	0.71	0.13	0.06	0.10	0.03	2.18
R981843		1.89	43.6	16.25	13.75	12.50	6.37	1.97	0.60	<0.01	0.74	0.15	0.36	0.12	0.02	1.70
R981844		1.91	42.7	17.45	15.00	12.50	5.54	2.06	0.59	<0.01	0.90	0.12	0.04	0.15	0.02	1.94
R981845		0.98	57.2	7.44	10.60	7.28	10.40	1.46	1.50	0.08	0.38	0.20	0.28	0.02	0.04	1.14
R981846		1.92	48.6	18.75	10.85	10.70	5.78	2.61	0.38	0.01	0.93	0.15	0.09	0.02	0.01	0.00
R981847		0.93	47.9	15.85	14.00	9.87	8.12	2.21	0.25	0.01	0.88	0.19	0.09	0.02	0.01	-0.41
R981848		1.39	49.0	14.35	15.00	10.10	6.24	2.33	0.41	0.01	1.43	0.21	0.15	0.02	0.02	-0.17
R981849		1.55	49.9	14.70	13.90	10.65	8.02	2.17	0.44	0.03	1.11	0.20	0.09	0.02	0.02	-0.05
R981850		1.83	49.5	14.75	14.55	10.45	7.38	2.32	0.52	0.03	1.20	0.21	0.12	0.02	0.02	0.10
R982177		2.07	48.1	16.20	14.20	10.10	7.88	2.29	0.28	0.01	1.02	0.18	0.10	0.02	0.01	-0.18
R982178		3.60	47.8	15.95	14.90	9.62	10.15	2.17	0.28	0.01	0.86	0.19	0.09	0.02	0.01	-0.37
R982179		3.94	46.9	15.95	14.20	9.87	8.94	2.19	0.24	0.02	0.88	0.18	0.09	0.02	0.01	-0.25
R982180		1.91	47.9	14.45	14.65	9.86	7.24	2.24	0.39	0.02	1.20	0.21	0.13	0.02	0.02	-0.05
R982181		1.62	19.65	0.12	0.27	27.0	21.3	0.07	0.03	<0.01	0.01	0.05	0.01	0.02	0.02	32.5
R982182		0.09	46.0	12.40	20.3	6.17	6.68	2.11	0.62	0.03	1.19	0.19	0.16	0.03	0.02	1.38
R982183		1.41	50.8	13.85	11.10	7.95	8.05	3.64	0.34	0.10	0.54	0.23	0.04	0.01	0.01	1.38
R982184		2.44	46.7	15.10	14.15	10.00	8.55	2.12	0.27	0.02	0.94	0.19	0.09	0.02	0.01	-0.05
R982185		4.29	46.5	15.65	14.50	9.48	9.42	2.16	0.26	0.01	0.86	0.18	0.08	0.02	0.01	-0.37
R982186		1.90	71.1	11.55	5.79	1.98	2.58	2.25	1.24	0.03	0.55	0.07	0.04	0.03	0.05	1.92
R982187		2.03	72.2	10.70	7.15	3.09	2.21	2.27	0.64	0.02	0.52	0.12	0.06	0.02	0.02	1.77
R982188		1.75	48.3	16.25	13.70	9.86	7.15	2.46	0.47	0.01	1.17	0.18	0.11	0.02	0.02	0.04
R982189		2.25	49.5	14.15	14.65	10.25	5.87	2.44	0.56	0.02	1.44	0.21	0.13	0.02	0.02	0.04
R982190		1.34	48.8	14.00	14.85	10.45	7.01	2.26	0.45	0.02	1.25	0.20	0.10	0.02	0.02	0.00

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THUNDER BAY ON P7B 2R2

Finalized Date: 19-SEP-2017
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB17186932

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 0.5	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
R430566		98.73	8.97	0.03	148.5	1.3	<10	0.35	0.10	0.04	<0.03	0.2	0.10	<5	<0.2	0.02
R430567		94.12	0.07	1.80	215	26.6	240	0.98	2.55	1.31	1.08	15.5	2.86	<5	2.3	0.44
R430568		99.45	0.02	0.03	189.0	24.2	110	0.91	4.62	2.64	1.21	20.7	4.88	<5	2.8	0.93
R430569		99.11	0.01	0.02	199.5	26.3	100	0.97	5.07	3.00	1.45	21.2	5.36	<5	3.0	1.12
R430570		97.95	0.19	0.03	87.2	40.3	1750	0.29	2.71	1.26	1.78	8.6	5.60	<5	1.2	0.45
R430571		99.12	<0.01	0.03	197.0	26.1	50	0.88	5.17	2.97	1.42	21.4	5.31	<5	3.1	1.02
R430572		95.66	0.01	0.04	200	28.7	30	1.18	5.56	3.34	1.54	21.7	5.86	<5	3.5	1.14
R430573		99.69	0.09	0.14	826	135.0	30	0.69	4.02	1.74	3.10	17.4	8.41	<5	1.6	0.66
R430574		99.29	0.22	0.21	192.0	42.7	60	1.03	2.43	1.07	1.75	13.6	4.98	<5	1.0	0.41
R430575		100.11	0.06	0.02	55.4	28.0	240	0.16	3.88	2.29	1.22	18.2	4.34	<5	3.1	0.74
R430576		95.57	0.07	1.76	204	25.9	230	0.93	2.36	1.18	1.01	15.4	2.87	<5	2.2	0.45
R981836		101.60	<0.01	0.02	155.5	18.0	120	0.81	3.60	2.28	1.04	18.9	3.71	<5	2.1	0.82
R981837		98.72	<0.01	0.04	161.5	22.8	100	0.66	4.48	2.54	1.21	19.5	4.47	<5	2.7	0.91
R981838		99.16	<0.01	0.04	158.0	21.2	130	0.86	4.06	2.52	1.17	19.8	4.20	<5	2.6	0.85
R981839		98.19	0.23	0.31	122.5	17.6	770	0.54	1.71	0.91	0.87	8.9	2.71	<5	0.8	0.30
R981840		97.91	<0.01	0.03	122.0	16.0	190	0.69	3.11	1.95	0.89	17.3	3.23	<5	1.9	0.65
R981841		99.24	0.02	0.04	138.0	19.0	190	0.73	3.79	2.44	0.99	18.3	3.81	<5	2.2	0.80
R981842		97.02	0.24	0.16	248	23.5	240	1.72	1.98	0.79	1.36	15.0	3.56	<5	0.7	0.36
R981843		98.13	0.20	0.27	211	36.6	20	0.66	1.90	0.94	1.64	18.2	3.93	<5	0.7	0.33
R981844		99.01	0.17	0.34	198.5	21.4	10	0.58	1.58	0.63	1.28	19.7	2.99	<5	0.7	0.27
R981845		98.02	0.02	0.02	327	87.2	610	4.48	4.08	1.98	1.11	11.8	7.25	<5	6.0	0.77
R981846		98.88	0.01	0.02	125.0	12.8	80	0.36	3.08	1.74	0.95	20.9	3.03	<5	1.5	0.64
R981847		98.99	<0.01	0.02	95.0	11.7	100	0.36	2.93	1.74	0.90	18.8	2.98	<5	1.5	0.60
R981848		99.10	0.01	0.03	139.0	19.5	100	0.55	4.64	2.73	1.25	20.4	4.66	<5	2.5	0.98
R981849		101.20	0.01	0.03	128.0	16.2	200	0.69	3.42	1.93	0.96	18.0	3.50	<5	2.1	0.68
R981850		101.17	<0.01	0.04	172.5	19.4	190	0.80	3.99	2.49	1.23	20.3	4.12	<5	2.3	0.88
R982177		100.21	<0.01	0.02	98.6	12.0	80	0.52	3.17	1.89	0.91	18.0	3.02	<5	1.6	0.67
R982178		101.68	<0.01	0.02	100.5	12.3	100	0.67	3.15	2.04	0.92	19.2	2.79	<5	1.6	0.66
R982179		99.24	<0.01	0.02	95.2	12.2	130	0.42	3.29	1.78	0.93	19.7	2.98	<5	1.5	0.69
R982180		98.28	<0.01	0.02	155.0	17.2	110	0.73	4.56	2.96	1.28	20.6	4.24	<5	2.2	0.95
R982181		101.05	8.88	<0.01	161.5	0.8	10	0.43	0.06	0.07	<0.03	0.2	0.08	<5	<0.2	0.02
R982182		97.28	0.07	1.74	222	25.6	250	0.95	2.56	1.44	1.19	16.3	3.10	<5	2.4	0.50
R982183		98.04	0.01	0.36	108.0	4.9	800	0.35	2.23	1.66	0.47	14.8	1.92	<5	1.0	0.53
R982184		98.11	0.04	0.02	108.5	12.6	170	0.69	3.32	1.99	0.93	19.2	3.03	<5	1.7	0.65
R982185		98.76	0.01	0.02	90.5	11.5	90	0.42	3.05	1.84	0.89	18.4	2.74	<5	1.5	0.61
R982186		99.18	<0.01	0.41	487	31.1	220	1.39	2.32	1.41	0.82	14.3	2.65	<5	2.0	0.48
R982187		100.79	0.07	0.07	184.5	23.2	150	1.05	2.31	1.52	0.60	11.9	2.35	<5	2.0	0.48
R982188		99.74	<0.01	0.02	148.5	15.2	80	0.56	3.60	2.22	1.04	19.4	3.60	<5	1.9	0.79
R982189		99.30	0.01	0.04	192.0	23.7	120	1.07	5.21	3.08	1.41	21.2	4.92	<5	2.9	1.04
R982190		99.43	<0.01	0.04	142.0	18.5	160	0.89	4.06	2.44	1.23	20.1	4.09	<5	2.2	0.83

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Sample Description	Method / Analyte / Units / LOR	ME-MS81 La ppm 0.5	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
R430566		0.9	<0.01	<0.2	0.5	0.12	0.6	0.14	<1	132.5	<0.1	0.01	0.17	<0.01	0.34	<5
R430567		12.6	0.17	6.9	13.7	3.25	16.5	2.85	4	266	0.4	0.41	1.58	0.20	0.48	121
R430568		11.1	0.38	5.5	14.8	3.10	17.4	4.12	1	167.0	0.3	0.82	1.89	0.41	0.53	358
R430569		12.3	0.39	6.1	16.2	3.30	19.4	4.61	1	153.0	0.4	0.89	2.11	0.47	0.62	397
R430570		14.1	0.11	1.3	32.1	6.35	16.1	7.75	1	266	0.1	0.64	0.62	0.14	0.19	153
R430571		12.2	0.40	6.0	15.7	3.32	19.2	4.11	1	159.5	0.4	0.85	2.01	0.43	0.56	399
R430572		13.5	0.46	6.7	17.7	3.75	17.8	4.75	1	154.5	0.4	0.95	2.37	0.47	0.69	434
R430573		58.2	0.19	7.5	74.3	17.55	36.8	13.70	1	1395	0.3	0.89	2.61	0.23	0.63	199
R430574		17.1	0.13	1.9	30.2	6.24	16.5	6.66	<1	824	<0.1	0.59	1.42	0.13	0.26	243
R430575		11.6	0.29	8.6	17.1	3.71	2.4	4.11	1	254	0.5	0.65	0.91	0.29	0.20	195
R430576		12.0	0.16	6.5	13.2	3.12	15.9	2.99	4	254	0.4	0.43	1.63	0.19	0.44	115
R981836		8.3	0.31	4.3	11.0	2.39	19.4	3.37	1	212	0.3	0.62	1.50	0.32	0.44	308
R981837		10.6	0.37	5.2	13.4	2.93	14.2	3.56	1	160.5	0.5	0.73	1.82	0.40	0.56	331
R981838		9.8	0.31	5.0	12.6	2.75	14.6	3.39	1	157.5	0.3	0.71	1.66	0.35	0.52	342
R981839		6.9	0.08	0.9	13.2	2.57	15.7	3.35	<1	306	<0.1	0.34	0.72	0.11	0.16	196
R981840		7.5	0.24	3.5	9.5	2.09	11.2	2.50	1	144.5	0.2	0.57	1.26	0.26	0.34	266
R981841		8.8	0.31	4.5	11.8	2.42	12.8	3.18	1	151.0	0.3	0.63	1.47	0.33	0.42	319
R981842		9.0	0.09	1.9	18.5	3.64	26.1	4.82	1	835	<0.1	0.46	0.52	0.10	0.14	260
R981843		15.8	0.06	0.8	25.6	5.27	17.8	5.51	<1	979	<0.1	0.44	1.06	0.10	0.20	375
R981844		8.5	0.06	0.9	16.2	3.18	18.8	4.11	1	1300	<0.1	0.34	0.38	0.07	0.07	410
R981845		37.0	0.26	4.3	49.7	11.30	54.8	10.45	1	184.5	0.4	0.83	10.05	0.27	2.63	129
R981846		6.0	0.24	3.1	8.4	1.71	11.6	2.55	1	188.0	0.2	0.48	0.76	0.28	0.20	254
R981847		5.2	0.27	2.6	7.6	1.59	7.0	2.28	1	158.5	0.1	0.48	0.71	0.24	0.17	249
R981848		8.6	0.39	4.8	12.9	2.70	11.4	3.72	1	150.5	0.3	0.79	1.27	0.41	0.32	375
R981849		7.6	0.30	3.9	10.1	2.15	12.4	2.79	1	155.0	0.2	0.59	1.32	0.31	0.36	302
R981850		8.6	0.32	4.9	11.9	2.52	15.3	3.69	1	170.5	0.3	0.69	1.60	0.38	0.51	324
R982177		5.2	0.27	3.3	8.3	1.58	7.1	2.49	1	144.0	0.2	0.52	0.82	0.29	0.21	256
R982178		5.3	0.28	3.2	8.3	1.65	7.9	2.42	1	156.5	0.2	0.51	0.77	0.30	0.23	239
R982179		5.2	0.28	3.1	8.0	1.68	7.5	2.26	1	158.5	0.2	0.52	0.78	0.28	0.23	256
R982180		7.3	0.35	4.6	11.2	2.26	10.6	3.58	1	155.0	0.3	0.75	1.10	0.41	0.32	349
R982181		0.9	0.01	0.3	0.4	0.12	1.0	0.10	<1	123.0	<0.1	0.02	0.07	0.01	0.33	<5
R982182		11.7	0.18	7.1	13.3	3.09	16.9	2.98	4	261	0.4	0.48	1.59	0.20	0.45	122
R982183		1.9	0.26	1.3	3.5	0.74	8.8	1.32	1	94.8	0.1	0.34	0.19	0.25	0.07	294
R982184		5.5	0.28	3.3	8.3	1.72	9.1	2.60	1	149.0	0.2	0.54	0.84	0.31	0.24	275
R982185		5.0	0.26	3.2	7.4	1.55	6.6	2.31	1	147.0	0.2	0.48	0.76	0.28	0.23	231
R982186		15.4	0.21	3.5	13.4	3.43	29.3	2.72	1	233	0.3	0.38	3.47	0.22	0.76	130
R982187		11.5	0.22	2.8	10.1	2.53	17.5	2.31	1	139.5	0.3	0.40	2.94	0.21	0.63	129
R982188		6.5	0.30	4.0	9.5	2.06	13.4	2.91	1	154.0	0.3	0.61	0.99	0.33	0.27	286
R982189		10.5	0.40	5.9	13.9	3.00	16.5	4.28	1	159.5	0.3	0.87	2.04	0.45	0.60	378
R982190		8.2	0.34	4.7	11.5	2.37	13.6	3.07	1	155.0	0.3	0.70	1.47	0.40	0.46	345

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

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
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: 19-SEP-2017
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB17186932

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	0.5	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
R430566		1	0.6	0.04	2	0.6	0.02	0.007	<0.005	<0.001	0.16	0.4	<0.01	0.04	<0.5	<0.5
R430567		3	13.6	1.28	105	4.4	0.86	0.009	0.065	0.005	0.40	4.4	0.44	0.09	1.7	1.0
R430568		1	26.8	2.58	110	0.7	0.03	<0.005	0.017	0.001	0.12	<0.2	0.01	0.32	<0.5	<0.5
R430569		1	29.9	2.92	121	0.8	0.03	<0.005	0.020	0.001	0.12	0.2	<0.01	0.15	<0.5	0.5
R430570		1	12.8	0.94	41	0.3	0.03	<0.005	<0.005	<0.001	0.08	<0.2	0.01	0.02	<0.5	0.5
R430571		1	29.4	2.92	119	0.8	0.03	<0.005	0.021	0.001	0.08	0.2	0.01	0.14	<0.5	<0.5
R430572		1	32.4	3.33	138	1.0	0.03	<0.005	0.022	0.001	0.08	0.2	0.01	0.12	<0.5	<0.5
R430573		1	19.2	1.48	60	0.7	0.02	0.008	0.011	<0.001	0.06	<0.2	0.01	0.08	<0.5	0.5
R430574		<1	11.5	0.84	41	0.2	0.01	0.010	0.005	<0.001	0.05	0.2	0.01	0.02	<0.5	<0.5
R430575		1	21.2	2.05	140	0.6	0.01	0.009	0.012	<0.001	0.10	<0.2	0.01	<0.02	<0.5	<0.5
R430576		3	12.9	1.19	94	3.5	0.67	0.015	0.063	0.005	0.31	4.2	0.37	0.09	1.8	1.1
R981836		1	21.5	2.11	84	0.5	0.05	0.008	0.012	0.001	0.05	<0.2	0.01	0.15	<0.5	<0.5
R981837		<1	24.8	2.71	103	0.8	0.03	0.008	0.019	0.001	0.06	0.3	0.01	0.24	<0.5	<0.5
R981838		1	24.0	2.42	99	0.7	0.02	<0.005	0.019	0.001	0.06	0.2	<0.01	0.16	<0.5	<0.5
R981839		1	8.5	0.72	29	0.3	0.04	<0.005	<0.005	<0.001	0.05	0.6	0.03	0.03	<0.5	0.5
R981840		1	18.3	1.83	75	0.5	0.02	<0.005	0.012	0.001	0.05	0.2	<0.01	0.19	<0.5	0.5
R981841		1	22.0	2.21	88	0.7	0.02	<0.005	0.014	0.001	0.05	0.2	0.01	0.14	<0.5	0.6
R981842		1	9.3	0.69	27	0.3	0.02	<0.005	0.007	<0.001	<0.05	0.3	0.01	0.03	<0.5	<0.5
R981843		<1	9.1	0.59	27	0.3	0.01	<0.005	0.005	<0.001	<0.05	0.4	0.01	0.02	<0.5	0.6
R981844		1	7.3	0.50	26	0.2	0.01	<0.005	<0.005	<0.001	<0.05	0.2	0.01	0.02	<0.5	0.5
R981845		1	21.7	1.98	259	2.6	0.14	<0.005	0.013	<0.001	0.09	<0.2	<0.01	0.22	<0.5	0.5
R981846		1	17.2	1.71	63	0.2	0.02	<0.005	0.012	<0.001	<0.05	<0.2	<0.01	0.03	<0.5	0.5
R981847		<1	16.8	1.65	61	0.2	0.01	<0.005	0.012	<0.001	<0.05	<0.2	<0.01	0.04	<0.5	0.6
R981848		1	26.9	2.72	98	0.5	0.03	<0.005	0.010	0.001	0.05	0.2	<0.01	0.05	<0.5	0.6
R981849		<1	19.4	1.85	77	0.5	0.02	<0.005	0.012	0.001	0.05	0.2	0.01	0.15	<0.5	<0.5
R981850		1	22.4	2.34	92	0.6	0.02	<0.005	0.013	0.001	0.05	0.2	<0.01	0.21	<0.5	<0.5
R982177		<1	17.1	1.84	64	0.2	0.02	<0.005	0.014	<0.001	<0.05	<0.2	0.01	0.05	<0.5	<0.5
R982178		1	16.9	1.64	60	0.3	0.01	<0.005	0.014	<0.001	<0.05	<0.2	0.01	0.05	<0.5	<0.5
R982179		1	17.2	1.91	61	0.2	0.01	<0.005	0.013	<0.001	<0.05	<0.2	<0.01	0.03	<0.5	<0.5
R982180		1	24.5	2.80	86	0.3	0.02	<0.005	0.015	0.001	<0.05	<0.2	<0.01	0.07	<0.5	0.7
R982181		1	0.5	0.06	2	0.8	0.01	<0.005	<0.005	<0.001	0.14	0.3	<0.01	0.04	<0.5	<0.5
R982182		4	13.2	1.24	98	4.0	0.85	0.008	0.066	0.005	0.31	4.4	0.54	0.09	2.1	0.5
R982183		1	13.4	1.62	36	0.2	0.04	<0.005	0.009	0.001	0.06	0.3	0.01	0.11	<0.5	<0.5
R982184		1	17.8	1.76	66	0.3	0.01	<0.005	0.013	0.001	<0.05	0.2	<0.01	0.06	<0.5	<0.5
R982185		1	15.9	1.67	58	0.5	0.03	<0.005	0.016	<0.001	0.06	0.2	0.01	0.05	<0.5	0.5
R982186		1	12.0	1.35	79	1.1	0.06	<0.005	0.019	0.001	0.12	0.3	0.02	0.09	<0.5	<0.5
R982187		1	12.9	1.38	79	3.0	0.05	<0.005	0.013	<0.001	0.07	<0.2	0.01	0.02	<0.5	<0.5
R982188		1	20.1	2.10	76	0.5	0.04	<0.005	0.013	0.001	0.05	0.2	0.01	0.07	<0.5	0.5
R982189		<1	26.8	2.76	115	0.7	0.02	<0.005	0.017	0.001	0.05	0.2	<0.01	0.16	<0.5	<0.5
R982190		1	22.0	2.43	89	0.5	0.02	<0.005	0.014	0.001	0.05	0.2	<0.01	0.12	<0.5	<0.5

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ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
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: 19-SEP-2017
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB17186932

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
R430566		<1	2	30	<1	<1	3	<1	59	<0.001	<0.005	<0.001	0.003
R430567		111	4430	20	4	4360	28	12	106	0.059	0.301	0.610	4.40
R430568		53	211	20	1	120	2	34	129	0.004	0.011	0.023	0.124
R430569		48	243	20	1	63	4	38	139	0.003	0.013	0.021	0.128
R430570		55	38	20	<1	367	2	46	66	0.002	0.008	0.008	0.052
R430571		46	265	20	<1	61	<2	37	141	0.004	0.013	0.026	0.131
R430572		48	294	20	<1	50	9	38	175	0.005	0.007	0.028	0.213
R430573		33	39	40	1	32	12	15	89	<0.001	<0.005	0.001	0.057
R430574		59	79	10	<1	64	3	42	54	<0.001	<0.005	<0.001	0.213
R430575		30	72	10	1	85	<2	25	102	<0.001	<0.005	<0.001	0.052
R430576		114	4710	20	6	4580	22	13	114	0.104	0.285	0.607	4.36
R981836		49	129	20	<1	124	3	33	94	0.001	0.007	0.016	0.078
R981837		51	208	10	1	113	3	33	119	0.002	0.011	0.020	0.163
R981838		52	208	10	1	112	3	34	123	0.002	0.012	0.020	0.129
R981839		66	410	10	<1	320	<2	56	57	0.025	0.007	0.008	0.626
R981840		56	165	20	1	157	<2	32	113	0.003	0.015	0.017	0.126
R981841		57	173	10	<1	147	5	33	115	0.002	0.014	0.019	0.153
R981842		43	87	10	1	106	<2	31	60	<0.001	0.014	0.036	0.157
R981843		64	119	10	<1	65	<2	29	81	<0.001	<0.005	<0.001	0.271
R981844		55	64	10	<1	35	3	23	80	<0.001	<0.005	<0.001	0.176
R981845		45	40	20	1	201	5	28	147	<0.001	<0.005	<0.001	0.008
R981846		41	125	10	1	120	<2	21	76	<0.001	0.005	0.008	0.038
R981847		61	151	10	<1	176	<2	24	106	<0.001	<0.005	0.006	0.053
R981848		49	225	10	<1	94	3	35	119	0.003	0.005	0.022	0.168
R981849		57	153	10	1	150	8	33	107	0.002	0.016	0.016	0.129
R981850		57	174	20	1	137	7	33	115	0.002	0.013	0.017	0.135
R982177		63	167	10	<1	196	2	27	105	0.002	0.005	0.014	0.079
R982178		77	141	10	<1	291	4	23	104	0.001	0.006	0.014	0.133
R982179		67	145	10	1	244	3	24	97	<0.001	0.008	0.012	0.061
R982180		63	204	10	1	157	7	33	144	0.002	0.006	0.017	0.071
R982181		1	3	30	<1	1	5	<1	35	<0.001	<0.005	<0.001	0.003
R982182		116	4520	20	5	4360	27	12	107	0.070	0.313	0.623	4.28
R982183		86	103	30	<1	284	<2	50	68	<0.001	0.007	0.008	0.215
R982184		66	139	10	<1	225	5	28	99	<0.001	0.006	0.007	0.059
R982185		74	153	10	<1	282	5	24	104	0.004	0.008	0.015	0.126
R982186		28	51	30	1	79	8	17	75	0.003	<0.005	0.002	0.233
R982187		25	61	20	2	64	4	18	48	<0.001	<0.005	0.002	0.094
R982188		58	177	20	<1	171	3	29	100	0.002	0.008	0.016	0.110
R982189		51	206	20	1	85	7	38	127	0.003	0.011	0.021	0.157
R982190		59	188	10	1	125	5	37	115	0.002	0.015	0.022	0.158

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North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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To: **NORTH AMERICAN PALLADIUM EXPLORATION**
556 TENTH AVE.
THUNDER BAY ON P7B 2R2

Finalized Date: 19-SEP-2017
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB17186932

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
R982191		1.68	47.4	16.15	13.05	9.68	7.58	2.26	0.45	0.01	0.95	0.18	0.10	0.02	0.01	0.09
R982192		1.44	47.6	15.65	14.50	9.83	7.90	2.37	0.31	0.02	1.13	0.19	0.12	0.02	0.01	-0.27
R982193		1.73	48.3	13.95	15.15	9.86	6.20	2.29	0.58	0.01	1.38	0.21	0.13	0.02	0.02	0.48
R982194		3.20	48.9	14.35	15.05	9.93	6.43	2.36	0.54	0.01	1.42	0.20	0.14	0.02	0.02	0.19
R982195		1.29	46.6	14.90	15.20	9.45	7.61	2.32	0.31	0.01	1.16	0.21	0.11	0.02	0.01	0.78
R430906		2.15	52.8	12.15	6.54	7.28	13.35	2.33	2.26	0.21	0.36	0.12	0.11	0.07	0.06	2.26
R430907		1.53	59.9	13.70	8.18	5.72	5.71	3.16	1.25	0.06	0.52	0.14	0.13	0.05	0.05	1.16
R430908		2.04	51.2	16.50	15.15	6.03	5.23	3.68	1.39	0.04	1.11	0.27	0.17	0.06	0.05	1.04
R430909		0.72	60.7	16.00	5.05	5.80	3.60	3.83	2.02	0.02	0.44	0.07	0.16	0.07	0.07	0.63
R982196		0.09	45.6	12.30	20.2	6.15	6.65	2.10	0.63	0.04	1.19	0.19	0.14	0.03	0.02	1.31

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North Vancouver BC V7H 0A7
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556 TENTH AVE.
THUNDER BAY ON P7B 2R2

Finalized Date: 19-SEP-2017
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB17186932

Sample Description	Method	TOT-ICP06	C-IR07	S-IR08	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81	ME-MS81
	Analyte	Total	C	S	Ba	Ce	Cr	Cs	Dy	Er	Eu	Ga	Gd	Ge	Hf	Ho
	Units	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.01	0.01	0.01	0.5	0.5	10	0.01	0.05	0.03	0.03	0.1	0.05	5	0.2	0.01
R982191		97.93	<0.01	0.02	132.5	12.9	80	0.75	3.41	1.99	0.95	19.2	2.92	<5	1.6	0.68
R982192		99.38	<0.01	0.02	121.5	15.8	140	0.43	3.97	2.53	1.14	20.8	4.01	<5	2.2	0.81
R982193		98.58	0.02	0.04	207	23.3	120	1.00	5.01	3.19	1.35	21.8	4.84	<5	2.9	1.00
R982194		99.56	<0.01	0.03	187.0	24.5	120	1.17	5.29	3.25	1.41	22.4	4.78	<5	2.8	1.00
R982195		98.69	<0.01	0.02	130.0	16.0	70	1.75	4.09	2.66	1.13	20.5	3.84	<5	2.1	0.82
R430906		99.90	0.02	0.02	636	43.8	1590	5.45	2.42	1.22	1.23	15.1	3.38	<5	2.5	0.43
R430907		99.73	0.01	0.02	471	50.5	470	2.39	5.32	3.12	1.34	18.5	6.38	<5	2.5	1.01
R430908		101.92	0.01	0.08	496	41.8	320	4.03	3.61	2.12	1.92	23.9	4.62	<5	3.3	0.70
R430909		98.46	0.01	0.02	699	61.2	180	2.91	2.10	1.07	1.18	19.1	3.52	<5	3.1	0.38
R982196		96.55	0.07	1.72	218	25.2	240	0.95	2.48	1.40	1.15	16.2	2.81	<5	2.2	0.48

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

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
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: 19-SEP-2017
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB17186932

Sample Description	Method / Analyte / Units / LOR	ME-MS81 La ppm 0.5	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
R982191		5.3	0.27	3.3	8.3	1.70	13.0	2.44	1	158.0	0.2	0.56	0.72	0.29	0.25	260
R982192		6.8	0.35	4.2	10.0	2.13	8.9	3.40	1	159.0	0.2	0.71	1.01	0.38	0.31	302
R982193		10.6	0.42	5.8	14.5	3.07	18.4	4.24	1	162.5	0.4	0.84	2.01	0.46	0.67	367
R982194		11.0	0.42	6.2	14.5	3.12	18.6	4.64	1	166.0	0.4	0.86	2.07	0.45	0.56	379
R982195		7.0	0.33	4.2	11.0	2.15	9.4	3.38	1	165.5	0.2	0.67	1.00	0.35	0.33	318
R430906		19.4	0.17	4.8	21.5	5.29	71.6	4.71	1	599	0.2	0.47	4.82	0.17	0.61	79
R430907		18.3	0.43	6.9	32.8	7.07	36.4	7.64	1	470	0.5	0.93	3.02	0.48	0.88	120
R430908		19.7	0.25	6.5	23.4	5.35	29.9	5.10	1	505	0.3	0.68	1.04	0.31	0.33	233
R430909		28.8	0.13	4.7	29.4	7.18	60.4	5.87	1	570	0.3	0.44	5.90	0.14	0.90	73
R982196		11.2	0.20	6.8	12.9	3.01	16.1	3.08	4	253	0.4	0.47	1.46	0.18	0.47	117

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

Finalized Date: 19-SEP-2017
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB17186932

Sample Description	Method / Analyte / Units / LOR	ME-MS81 W ppm 1	ME-MS81 Y ppm 0.5	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
R982191		1	17.7	1.89	64	0.4	0.02	<0.005	0.014	<0.001	<0.05	<0.2	<0.01	0.08	<0.5	<0.5
R982192		1	21.3	2.21	79	0.3	0.02	<0.005	0.015	0.001	<0.05	<0.2	0.01	0.04	<0.5	<0.5
R982193		1	26.3	2.73	109	0.8	0.03	<0.005	0.015	0.001	0.05	0.3	0.01	0.36	<0.5	<0.5
R982194		1	27.3	2.96	113	0.5	0.02	<0.005	0.017	0.001	0.05	0.2	0.01	0.18	<0.5	<0.5
R982195		1	22.3	2.44	83	0.3	0.03	<0.005	0.013	<0.001	<0.05	0.3	<0.01	0.14	<0.5	<0.5
R430906		1	11.2	1.02	104	0.1	0.01	<0.005	<0.005	0.002	<0.05	<0.2	0.01	0.19	<0.5	<0.5
R430907		1	28.9	3.02	91	0.2	0.01	<0.005	0.012	<0.001	<0.05	<0.2	<0.01	0.10	<0.5	<0.5
R430908		1	18.3	1.95	145	0.1	0.01	<0.005	0.014	0.001	<0.05	0.2	0.01	0.10	<0.5	<0.5
R430909		1	10.3	0.94	124	1.5	0.10	<0.005	0.007	<0.001	0.06	<0.2	<0.01	0.22	<0.5	<0.5
R982196		4	12.6	1.21	98	4.0	0.74	0.009	0.066	0.005	0.32	4.8	0.42	0.09	2.4	0.9

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

Finalized Date: 19-SEP-2017
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB17186932

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
R982191		62	128	10	1	192	4	26	104	0.001	0.007	0.015	0.037
R982192		65	181	10	1	186	2	28	106	0.003	<0.005	0.015	0.097
R982193		55	207	20	1	107	8	34	146	0.004	0.010	0.020	0.198
R982194		57	206	10	1	114	7	34	119	0.003	0.010	0.019	0.148
R982195		67	262	20	<1	193	<2	31	131	0.001	0.006	0.018	0.168
R430906		45	16	40	5	550	13	17	83	<0.001	<0.005	0.001	0.032
R430907		30	10	20	1	123	8	19	92	<0.001	<0.005	0.002	0.018
R430908		38	184	30	1	110	6	36	158	0.006	<0.005	0.004	0.129
R430909		21	25	30	1	75	14	11	66	<0.001	<0.005	0.001	0.018
R982196		123	4690	20	5	4610	24	13	111	0.093	0.303	0.606	4.29

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Finalized Date: 19-SEP-2017
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CERTIFICATE OF ANALYSIS TB17186932

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		