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: 8-FEB-2018
Account: NAPEHZEU

CERTIFICATE TB18014787

Project: Gfields

P.O. No.: 178845

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

The following have access to data associated with this certificate:

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

SAMPLE PREPARATION

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

ANALYTICAL PROCEDURES

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

To: **NORTH AMERICAN PALLADIUM EXPLORATION**
ATTN: DAVID BENSON
556 TENTH AVE.
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

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: 8-FEB-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18014787

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
W443781		1.49	21.4	0.65	0.18	25.7	21.0	0.27	0.21	<0.01	0.02	0.05	<0.01	0.01	0.03	30.8
W443782		0.04	41.7	9.03	15.30	15.80	11.15	0.62	0.22	0.11	0.69	0.14	0.11	<0.01	0.03	4.27
W443783		2.33	68.7	15.55	3.00	2.69	2.04	4.15	1.84	<0.01	0.30	0.03	0.09	0.02	0.02	1.28
W443784		2.04	70.2	15.95	3.10	2.53	2.01	4.06	1.92	<0.01	0.31	0.03	0.09	0.02	0.02	1.19
W443785		2.04	70.4	15.80	3.19	3.12	2.16	3.69	1.89	<0.01	0.30	0.04	0.10	0.02	0.03	1.17
W443786		2.32	70.4	15.85	2.99	2.93	2.07	3.64	2.23	<0.01	0.30	0.04	0.08	0.02	0.04	1.28
W443787		2.19	70.0	15.70	2.66	2.30	1.89	2.82	3.41	<0.01	0.30	0.03	0.07	0.02	0.07	1.55
W443788		2.04	70.5	15.70	3.08	2.54	2.00	3.31	2.58	<0.01	0.30	0.03	0.09	0.02	0.04	1.35
W443789		2.10	69.3	15.65	2.89	2.51	2.00	3.30	2.44	<0.01	0.30	0.03	0.09	0.02	0.03	1.41
W443790		2.13	70.5	15.90	2.96	2.69	1.95	3.81	2.17	<0.01	0.30	0.03	0.08	0.02	0.04	1.13
W443791		2.11	70.6	15.75	2.80	2.13	1.79	3.10	3.08	<0.01	0.30	0.02	0.08	0.02	0.06	1.40
W443792		1.87	69.9	15.90	3.00	2.45	1.98	3.77	2.13	<0.01	0.30	0.03	0.08	0.01	0.03	1.19
W443793		1.83	70.5	15.75	3.16	2.25	1.94	3.60	2.16	<0.01	0.30	0.03	0.08	0.01	0.03	1.34
W443794		2.07	68.2	15.40	3.35	3.30	2.18	3.59	1.86	<0.01	0.30	0.05	0.08	0.02	0.03	1.54
W443795		2.35	47.0	14.55	15.40	8.22	6.30	1.61	1.44	0.02	1.30	0.24	0.09	0.02	0.03	2.27
W443796		2.56	48.0	14.05	14.80	8.26	6.72	2.39	0.60	0.02	1.31	0.26	0.08	0.01	0.01	1.76
W443797		2.41	47.6	14.25	15.95	8.20	6.23	2.75	0.52	0.02	1.28	0.24	0.10	0.01	0.01	1.77
W443798		2.25	46.6	14.50	15.75	6.87	6.23	2.94	0.73	0.02	1.16	0.21	0.10	0.02	0.02	4.62
W443799		1.86	47.4	15.60	13.60	7.79	5.46	2.86	0.90	0.02	1.18	0.19	0.08	0.02	0.02	3.41
W443800		1.96	48.5	15.15	13.75	9.62	5.83	2.13	0.87	0.02	1.23	0.24	0.10	0.02	0.02	2.03
W443801		0.04	46.8	12.70	20.2	6.19	6.74	2.13	0.62	0.03	1.28	0.19	0.16	0.03	0.02	1.12
W443802		2.46	72.3	14.00	2.83	3.64	1.10	3.20	1.31	<0.01	0.33	0.05	0.09	0.02	0.03	1.25
W443803		2.64	73.5	14.15	2.37	3.60	0.75	3.28	1.42	0.01	0.31	0.04	0.10	0.02	0.03	1.39
W443804		2.19	76.0	12.95	2.50	3.26	0.96	2.83	1.18	<0.01	0.28	0.04	0.08	0.01	0.03	1.49
W443805		2.19	74.8	13.70	2.63	3.26	1.05	2.55	1.75	0.01	0.33	0.05	0.08	0.01	0.04	1.37
W443806		2.31	71.3	15.05	3.20	3.05	1.29	2.68	2.03	0.01	0.44	0.06	0.09	0.01	0.04	1.45
W443807		1.88	73.8	14.00	2.99	2.87	1.01	3.83	1.21	<0.01	0.30	0.05	0.10	0.02	0.03	1.01
W443808		2.21	50.9	13.90	12.35	8.87	6.65	1.77	1.02	0.03	0.78	0.23	0.05	0.01	0.02	2.27
W443809		2.20	49.5	14.95	12.55	10.80	6.46	1.75	1.16	0.04	0.87	0.24	0.06	0.02	0.03	2.06
W443810		2.69	73.3	14.40	2.73	3.67	1.25	2.86	1.48	<0.01	0.28	0.05	0.08	0.02	0.04	1.35
W443811		2.19	72.8	13.45	2.46	2.96	0.96	3.27	1.28	<0.01	0.26	0.05	0.10	0.02	0.03	1.11
W443812		2.04	66.1	17.90	4.11	2.88	1.47	3.49	2.52	0.03	0.66	0.08	0.08	0.02	0.05	1.37
W443813		2.12	62.5	19.45	3.98	3.51	1.39	3.64	2.66	0.04	0.75	0.10	0.06	0.02	0.06	1.59
W443814		2.29	70.6	15.60	3.20	3.21	0.78	3.53	1.85	0.01	0.40	0.08	0.08	0.02	0.04	1.40
W443815		2.35	71.3	14.75	3.28	3.43	0.71	3.12	1.84	0.01	0.35	0.09	0.08	0.02	0.05	1.28
W443816		2.08	71.0	14.50	3.17	3.55	0.68	2.99	1.98	0.01	0.34	0.10	0.10	0.02	0.05	1.30
W443817		2.10	71.9	14.15	3.81	3.43	0.71	3.09	1.53	<0.01	0.30	0.11	0.10	0.02	0.04	1.39
W443818		2.09	73.7	14.10	3.27	3.12	0.73	3.16	1.71	<0.01	0.30	0.10	0.09	0.02	0.04	1.40
W443819		2.09	70.8	14.45	3.19	3.14	1.34	2.50	2.41	0.01	0.35	0.09	0.10	0.01	0.05	1.65
W443820		2.10	72.7	13.70	2.61	3.83	0.71	2.65	1.96	<0.01	0.29	0.08	0.10	0.02	0.05	1.31

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

Project: Gfields

CERTIFICATE OF ANALYSIS TB18014787

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
W443781		100.32	8.28	0.01	244	2.0	10	0.52	0.09	0.09	0.04	0.6	0.10	<5	0.3	0.03
W443782		99.17	0.24	2.59	294	20.1	810	0.44	2.58	1.48	0.81	10.9	2.74	<5	2.2	0.53
W443783		99.71	0.03	0.03	212	27.0	20	2.39	0.78	0.34	0.53	19.6	1.14	<5	3.1	0.12
W443784		101.43	0.01	0.02	204	33.2	20	2.34	0.87	0.37	0.59	20.2	1.33	<5	3.3	0.17
W443785		101.91	0.01	0.03	251	35.3	20	3.03	0.85	0.40	0.64	19.7	1.37	<5	3.2	0.15
W443786		101.87	0.02	0.02	318	25.4	20	2.56	0.64	0.36	0.51	19.0	1.10	<5	3.1	0.12
W443787		100.82	0.02	0.02	637	26.9	10	2.33	0.83	0.37	0.47	19.2	1.19	<5	3.1	0.13
W443788		101.54	0.02	0.05	397	30.7	20	2.79	0.76	0.34	0.58	18.9	1.25	<5	3.2	0.13
W443789		99.97	0.01	0.02	308	32.0	20	2.21	0.83	0.33	0.57	19.5	1.24	<5	3.1	0.14
W443790		101.58	0.02	0.06	318	30.3	20	2.65	0.78	0.37	0.54	18.9	1.26	<5	3.1	0.15
W443791		101.13	0.02	0.07	489	26.4	20	2.08	0.72	0.38	0.41	19.2	1.17	<5	3.0	0.14
W443792		100.77	<0.01	0.01	251	31.8	20	2.33	0.79	0.37	0.55	19.9	1.29	<5	3.3	0.14
W443793		101.15	0.01	0.02	233	31.5	20	2.22	0.78	0.37	0.52	19.7	1.14	<5	3.2	0.13
W443794		99.90	0.03	0.08	249	25.9	20	1.82	0.76	0.35	0.50	19.5	1.11	<5	3.3	0.14
W443795		98.49	0.03	1.20	294	11.5	190	3.44	3.84	2.45	0.90	18.5	3.22	<5	2.0	0.88
W443796		98.27	0.03	1.36	129.0	11.4	160	1.12	4.06	2.61	0.98	17.9	3.34	<5	2.1	0.86
W443797		98.93	0.02	1.50	136.5	15.0	170	0.88	5.22	3.30	1.20	19.6	4.46	<5	2.7	1.11
W443798		99.77	0.04	5.17	173.0	16.9	170	0.41	4.34	2.75	1.13	17.6	3.66	<5	2.2	0.92
W443799		98.53	0.03	3.27	191.5	12.1	160	0.91	4.16	2.77	0.96	18.8	3.48	<5	2.2	0.91
W443800		99.51	0.04	1.26	193.5	13.6	180	1.00	4.49	2.88	1.07	18.8	3.82	<5	2.4	0.99
W443801		98.21	0.08	1.66	219	26.9	240	0.97	2.56	1.51	1.13	15.8	2.83	<5	2.5	0.51
W443802		100.15	0.05	0.07	263	50.9	20	0.74	1.22	0.63	0.64	18.0	1.66	<5	3.3	0.22
W443803		100.97	0.04	0.09	269	47.9	40	0.55	1.00	0.55	0.74	18.4	1.51	<5	3.4	0.18
W443804		101.61	0.03	0.12	242	47.7	20	0.70	1.04	0.52	0.65	17.0	1.48	<5	3.2	0.20
W443805		101.63	0.06	0.05	385	45.0	40	0.93	0.90	0.41	0.60	17.3	1.42	<5	3.1	0.18
W443806		100.70	0.03	0.12	417	42.3	100	1.50	0.87	0.43	0.58	19.9	1.37	<5	3.2	0.17
W443807		101.22	0.05	0.11	274	51.0	20	0.89	1.03	0.55	0.64	18.6	1.55	<5	3.7	0.19
W443808		98.85	0.04	1.67	184.0	11.2	220	0.93	2.95	1.94	0.80	16.6	2.55	<5	1.5	0.69
W443809		100.49	0.06	1.28	246	9.0	240	0.90	3.39	2.20	0.85	17.7	2.73	<5	1.5	0.71
W443810		101.51	0.04	0.06	330	35.4	20	1.03	0.88	0.46	0.56	18.2	1.48	<5	3.3	0.17
W443811		98.75	0.05	0.10	266	38.7	20	0.79	0.93	0.48	0.59	17.0	1.60	<5	3.4	0.15
W443812		100.76	0.04	0.12	492	31.1	230	2.29	1.69	0.99	0.68	20.7	1.70	<5	2.6	0.32
W443813		99.75	0.04	0.14	609	31.3	260	1.98	1.57	0.78	0.64	22.6	1.66	<5	2.6	0.31
W443814		100.80	0.06	0.08	397	49.3	60	0.83	1.03	0.46	0.69	20.1	1.51	<5	3.2	0.18
W443815		100.31	0.07	0.10	445	50.6	40	0.86	0.99	0.45	0.67	19.6	1.51	<5	3.6	0.19
W443816		99.79	0.07	0.10	465	52.5	30	0.89	1.04	0.46	0.73	19.2	1.60	<5	3.5	0.19
W443817		100.58	0.08	0.09	391	53.9	20	0.80	1.03	0.56	0.69	19.2	1.65	<5	3.6	0.19
W443818		101.74	0.07	0.18	415	51.8	20	0.80	1.13	0.53	0.69	19.2	1.67	<5	3.6	0.19
W443819		100.09	0.06	0.08	485	48.7	40	1.08	1.02	0.47	0.87	19.2	1.61	<5	3.6	0.19
W443820		100.01	0.11	0.06	448	52.0	20	0.76	1.04	0.49	0.73	18.1	1.57	<5	3.8	0.19

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

Project: Gfields

CERTIFICATE OF ANALYSIS TB18014787

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
W443781		1.3	0.02	0.4	0.7	0.22	3.6	0.12	1	136.5	<0.1	0.02	0.24	0.01	0.53	10
W443782		9.7	0.22	6.5	10.7	2.53	5.0	2.56	2	66.7	0.4	0.42	2.06	0.23	1.00	198
W443783		13.5	0.05	4.0	10.6	2.98	59.3	1.57	1	189.0	0.4	0.15	3.70	0.05	0.95	42
W443784		17.5	0.05	4.0	12.5	3.63	59.7	1.99	1	181.5	0.4	0.17	3.73	0.05	1.04	41
W443785		18.7	0.05	4.0	13.1	3.75	64.3	1.97	1	175.0	0.4	0.16	3.87	0.05	1.17	42
W443786		12.9	0.05	3.9	9.9	2.79	69.5	1.58	1	163.0	0.4	0.14	3.79	0.05	1.09	41
W443787		13.3	0.05	3.9	10.2	2.89	86.5	1.68	1	162.0	0.4	0.15	3.65	0.05	1.11	38
W443788		16.3	0.05	3.8	11.5	3.31	74.8	1.79	1	167.5	0.4	0.15	3.87	0.05	1.14	39
W443789		16.9	0.05	4.0	12.6	3.52	65.6	1.95	1	155.0	0.3	0.16	3.92	0.05	0.96	41
W443790		15.7	0.05	3.8	11.1	3.30	58.8	1.83	1	163.0	0.4	0.15	3.70	0.05	1.05	39
W443791		13.4	0.05	3.8	9.8	2.86	71.6	1.47	1	154.5	0.3	0.14	3.63	0.05	1.01	40
W443792		16.7	0.05	4.0	12.0	3.49	59.2	1.98	1	158.0	0.4	0.16	3.72	0.05	1.09	38
W443793		16.2	0.04	3.8	11.3	3.39	58.8	1.73	1	155.5	0.4	0.15	3.76	0.04	1.03	37
W443794		13.2	0.05	3.9	9.8	2.82	50.6	1.62	1	165.0	0.4	0.15	3.79	0.05	1.03	39
W443795		4.5	0.37	3.3	8.3	1.72	44.0	2.63	1	192.5	0.2	0.58	0.42	0.37	0.11	478
W443796		4.3	0.42	3.5	8.7	1.70	16.7	2.65	1	134.5	0.2	0.60	0.36	0.42	0.10	376
W443797		5.7	0.51	4.4	11.2	2.26	13.4	3.46	1	155.5	0.3	0.76	0.43	0.49	0.11	351
W443798		7.6	0.42	3.7	11.1	2.38	19.9	3.00	5	172.0	0.2	0.65	0.37	0.40	0.16	327
W443799		4.5	0.43	3.7	9.1	1.87	25.1	3.02	1	185.5	0.2	0.63	0.36	0.42	0.12	347
W443800		5.2	0.45	3.9	10.0	2.02	24.9	2.93	1	166.0	0.2	0.69	0.43	0.46	0.10	361
W443801		12.4	0.18	7.1	13.4	3.31	16.5	3.10	3	267	0.4	0.45	1.74	0.21	0.61	127
W443802		27.8	0.08	4.3	17.3	5.25	32.0	2.54	<1	160.5	0.4	0.22	4.86	0.09	0.96	43
W443803		25.7	0.07	4.3	16.5	4.91	42.0	2.45	<1	166.5	0.4	0.20	5.07	0.07	0.89	36
W443804		25.8	0.08	4.1	16.2	4.91	36.0	2.18	<1	150.5	0.3	0.20	4.70	0.08	0.96	34
W443805		25.4	0.07	4.0	14.9	4.59	40.7	2.16	<1	159.5	0.3	0.18	4.33	0.07	0.83	45
W443806		23.1	0.06	4.3	14.4	4.34	51.6	2.06	1	146.0	0.3	0.17	4.31	0.07	0.82	73
W443807		28.0	0.08	4.5	17.2	5.28	32.3	2.56	<1	188.5	0.4	0.20	5.01	0.08	0.93	36
W443808		5.2	0.30	2.1	6.5	1.49	31.1	1.96	1	146.5	0.1	0.45	0.65	0.32	0.14	271
W443809		3.8	0.32	2.2	6.3	1.29	33.7	2.05	<1	171.5	0.1	0.51	0.41	0.34	0.10	300
W443810		19.8	0.05	4.2	12.4	3.69	40.6	1.92	<1	175.5	0.4	0.18	3.21	0.07	0.84	29
W443811		21.1	0.06	5.1	13.5	4.02	34.7	2.14	<1	161.5	0.3	0.18	3.62	0.06	0.88	27
W443812		16.7	0.13	3.8	11.9	3.30	62.6	2.09	<1	177.5	0.3	0.29	2.73	0.14	0.53	196
W443813		16.8	0.11	3.6	11.8	3.40	62.8	2.04	<1	200	0.3	0.26	2.62	0.13	0.57	201
W443814		27.1	0.06	4.6	16.6	5.12	41.2	2.42	<1	217	0.3	0.19	4.84	0.07	0.78	66
W443815		27.7	0.07	4.5	16.6	5.26	43.5	2.57	<1	183.5	0.3	0.21	4.80	0.07	0.84	41
W443816		28.3	0.07	4.6	17.6	5.45	47.0	2.65	<1	187.0	0.3	0.20	5.05	0.08	0.83	42
W443817		29.7	0.06	4.5	18.2	5.64	38.7	2.58	<1	212	0.4	0.19	5.14	0.07	0.79	33
W443818		28.0	0.08	4.6	17.3	5.45	39.4	2.63	<1	177.5	0.4	0.20	5.33	0.08	0.91	35
W443819		26.7	0.06	4.6	16.9	5.10	51.1	2.50	<1	133.0	0.4	0.20	4.81	0.08	0.87	38
W443820		28.6	0.08	4.7	17.6	5.37	45.9	2.59	<1	179.0	0.4	0.18	5.14	0.08	1.10	32

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

Project: Gfields

CERTIFICATE OF ANALYSIS TB18014787

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
W443781		1	0.8	0.10	12	0.9	0.07	0.009	<0.005	<0.001	0.09	<0.2	<0.01	0.06	<0.5	<0.5
W443782		2	14.7	1.41	82	37.9	0.29	0.122	0.045	0.014	1.27	10.3	1.15	0.05	2.6	1.4
W443783		2	3.9	0.32	121	0.2	0.02	0.006	0.009	<0.001	<0.05	0.2	<0.01	0.13	<0.5	<0.5
W443784		1	4.3	0.30	130	0.2	0.01	<0.005	0.009	<0.001	<0.05	<0.2	0.01	0.12	<0.5	<0.5
W443785		1	4.3	0.30	119	0.1	0.02	<0.005	0.011	<0.001	<0.05	<0.2	0.01	0.16	<0.5	<0.5
W443786		1	3.8	0.33	116	0.4	0.03	0.008	0.010	<0.001	<0.05	0.2	<0.01	0.15	<0.5	<0.5
W443787		1	3.8	0.30	113	0.6	0.04	<0.005	0.009	<0.001	<0.05	<0.2	0.01	0.12	<0.5	<0.5
W443788		1	4.1	0.37	123	0.8	0.05	<0.005	0.009	<0.001	<0.05	<0.2	0.01	0.14	<0.5	<0.5
W443789		1	4.2	0.31	122	0.4	0.03	0.009	0.007	<0.001	<0.05	<0.2	0.01	0.12	<0.5	<0.5
W443790		2	4.0	0.32	122	0.6	0.06	0.008	0.011	<0.001	<0.05	<0.2	0.01	0.14	<0.5	<0.5
W443791		1	3.7	0.28	114	0.7	0.06	<0.005	<0.005	<0.001	<0.05	<0.2	0.01	0.12	<0.5	<0.5
W443792		1	4.1	0.31	121	0.2	0.02	<0.005	0.008	<0.001	<0.05	0.2	0.01	0.14	<0.5	<0.5
W443793		1	3.9	0.27	121	0.2	0.02	0.005	0.007	<0.001	<0.05	<0.2	0.01	0.13	<0.5	<0.5
W443794		2	4.0	0.36	125	0.7	0.10	<0.005	0.009	<0.001	<0.05	0.2	0.01	0.09	<0.5	<0.5
W443795		1	22.3	2.25	71	0.6	0.10	<0.005	0.018	<0.001	0.06	0.6	0.07	0.22	<0.5	0.7
W443796		1	23.5	2.53	73	0.6	0.10	0.007	0.013	0.001	<0.05	0.9	0.10	0.11	<0.5	0.8
W443797		1	29.5	3.10	93	0.7	0.23	<0.005	0.013	0.002	<0.05	0.9	0.07	0.12	<0.5	0.6
W443798		1	25.8	2.61	78	1.2	0.51	0.007	0.016	0.002	0.07	2.8	0.19	0.10	<0.5	0.7
W443799		1	25.2	2.82	80	0.9	0.36	<0.005	0.016	0.001	0.06	1.8	0.15	0.13	<0.5	0.6
W443800		2	27.4	2.87	86	0.5	0.14	0.005	0.015	0.002	0.06	0.7	0.10	0.13	<0.5	0.7
W443801		3	13.7	1.29	107	3.8	0.92	0.008	0.068	0.006	0.30	5.5	0.65	0.11	1.9	1.1
W443802		1	6.2	0.58	139	0.6	0.04	<0.005	<0.005	0.001	<0.05	<0.2	0.01	0.04	<0.5	<0.5
W443803		2	5.1	0.48	139	0.4	0.05	<0.005	<0.005	<0.001	<0.05	0.2	0.01	0.04	<0.5	<0.5
W443804		1	5.2	0.51	138	0.6	0.07	<0.005	<0.005	0.001	<0.05	<0.2	<0.01	0.04	<0.5	<0.5
W443805		1	4.9	0.44	133	0.4	0.03	<0.005	0.006	<0.001	<0.05	<0.2	0.01	0.05	<0.5	<0.5
W443806		1	4.6	0.44	134	1.1	0.05	<0.005	0.008	0.001	<0.05	<0.2	0.02	0.10	<0.5	<0.5
W443807		1	5.5	0.57	154	0.7	0.05	<0.005	0.009	<0.001	<0.05	<0.2	0.01	0.09	<0.5	<0.5
W443808		2	17.3	1.85	57	0.5	0.12	<0.005	0.009	0.002	<0.05	0.9	0.15	0.14	<0.5	0.5
W443809		<1	19.1	2.05	57	0.7	0.10	<0.005	0.014	0.002	0.07	0.8	0.11	0.14	<0.5	0.7
W443810		1	4.7	0.37	143	0.4	0.05	<0.005	0.009	<0.001	<0.05	<0.2	0.01	0.08	<0.5	<0.5
W443811		1	4.7	0.38	141	0.3	0.04	0.007	0.011	<0.001	<0.05	<0.2	<0.01	0.07	<0.5	<0.5
W443812		1	7.8	1.05	108	0.2	0.02	<0.005	0.021	<0.001	<0.05	0.3	0.01	0.30	<0.5	<0.5
W443813		<1	6.9	0.82	110	0.4	0.04	<0.005	0.023	<0.001	<0.05	0.4	0.02	0.31	<0.5	<0.5
W443814		1	4.9	0.46	137	0.4	0.05	<0.005	0.009	0.001	<0.05	<0.2	0.01	0.07	<0.5	<0.5
W443815		2	5.2	0.42	149	0.3	0.05	<0.005	0.011	<0.001	<0.05	<0.2	0.01	0.06	<0.5	<0.5
W443816		<1	5.4	0.47	144	0.3	0.06	0.005	0.011	<0.001	<0.05	<0.2	0.01	0.06	<0.5	<0.5
W443817		1	5.4	0.45	145	0.2	0.04	<0.005	0.007	<0.001	<0.05	<0.2	0.01	0.04	<0.5	<0.5
W443818		1	5.5	0.55	149	0.4	0.06	<0.005	0.009	0.001	<0.05	<0.2	0.01	0.03	<0.5	<0.5
W443819		1	5.3	0.45	144	0.3	0.02	<0.005	0.011	<0.001	<0.05	<0.2	0.01	0.08	<0.5	<0.5
W443820		2	5.4	0.49	157	0.3	0.03	<0.005	0.008	<0.001	<0.05	<0.2	<0.01	0.05	<0.5	<0.5

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

Project: Gfields

CERTIFICATE OF ANALYSIS TB18014787

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
W443781		<1	1	30	<1	<1	8	<1	37	0.001	<0.005	0.001	0.003
W443782		145	5590	40	3	2090	4	24	73	0.114	0.666	0.362	11.60
W443783		11	3	30	1	22	2	4	21	<0.001	<0.005	0.001	0.010
W443784		8	1	40	1	14	3	4	20	<0.001	<0.005	<0.001	0.007
W443785		9	1	40	<1	15	4	4	26	<0.001	<0.005	<0.001	0.007
W443786		6	3	40	<1	9	<2	4	23	<0.001	<0.005	<0.001	0.005
W443787		7	4	40	<1	7	3	4	19	0.003	<0.005	<0.001	0.005
W443788		9	7	40	1	8	3	3	22	<0.001	<0.005	<0.001	0.014
W443789		7	3	40	<1	7	3	3	17	0.002	<0.005	0.001	0.006
W443790		7	11	40	<1	7	4	3	112	<0.001	<0.005	<0.001	0.009
W443791		8	3	40	<1	6	3	3	15	<0.001	<0.005	<0.001	0.009
W443792		5	1	40	<1	8	3	3	17	<0.001	<0.005	<0.001	0.003
W443793		6	<1	40	<1	8	2	3	16	<0.001	<0.005	<0.001	0.003
W443794		7	14	40	<1	6	<2	3	108	<0.001	<0.005	<0.001	0.026
W443795		49	88	50	<1	87	6	39	183	0.001	<0.005	0.001	0.455
W443796		46	97	30	<1	72	10	36	150	<0.001	<0.005	0.001	0.731
W443797		38	101	30	1	74	<2	37	117	<0.001	<0.005	0.001	0.748
W443798		61	275	30	<1	79	9	35	86	0.011	<0.005	0.001	2.57
W443799		41	189	30	<1	67	7	32	84	0.002	<0.005	0.001	1.710
W443800		35	118	30	<1	68	9	37	148	<0.001	<0.005	<0.001	0.789
W443801		108	4480	20	4	4220	19	12	102	0.084	0.269	0.590	4.58
W443802		6	16	20	<1	12	5	4	11	<0.001	<0.005	<0.001	0.082
W443803		6	26	20	1	10	4	3	12	<0.001	<0.005	0.001	0.044
W443804		7	34	30	<1	9	5	3	41	<0.001	<0.005	0.001	0.069
W443805		8	17	30	<1	15	3	4	6	<0.001	<0.005	0.001	0.052
W443806		16	33	30	1	21	3	6	24	<0.001	<0.005	0.002	0.087
W443807		6	16	20	<1	10	4	4	25	<0.001	<0.005	0.001	0.046
W443808		39	185	40	<1	116	7	35	113	0.001	0.008	0.003	0.845
W443809		41	137	30	<1	117	7	38	96	<0.001	0.005	0.004	0.693
W443810		4	20	30	<1	9	4	3	44	<0.001	<0.005	<0.001	0.021
W443811		6	16	20	1	10	6	3	120	<0.001	<0.005	0.001	0.024
W443812		34	76	30	<1	88	6	22	55	0.001	0.005	0.005	0.169
W443813		38	106	40	<1	87	4	21	140	<0.001	0.008	0.006	0.259
W443814		8	10	30	<1	17	5	6	22	<0.001	<0.005	0.001	0.026
W443815		5	21	30	<1	8	7	4	31	<0.001	<0.005	0.001	0.044
W443816		4	17	20	1	8	5	4	31	0.002	<0.005	0.001	0.018
W443817		4	5	30	1	5	3	4	12	<0.001	<0.005	<0.001	0.011
W443818		5	13	30	<1	10	8	4	119	0.001	<0.005	<0.001	0.013
W443819		5	8	30	1	7	6	4	101	<0.001	<0.005	0.001	0.013
W443820		4	4	30	<1	5	3	3	65	<0.001	<0.005	<0.001	<0.003

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

Project: Gfields

CERTIFICATE OF ANALYSIS TB18014787

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
W443821		1.53	18.65	0.22	0.21	25.8	19.85	0.05	0.10	<0.01	<0.01	0.05	0.01	0.01	0.03	33.7
W443822		2.14	73.0	14.15	2.33	2.98	0.63	3.52	1.92	<0.01	0.30	0.06	0.09	0.02	0.05	1.33
W443823		2.05	72.8	14.40	2.85	2.62	0.89	3.52	1.77	<0.01	0.31	0.06	0.10	0.02	0.05	1.38
W443824		2.25	72.1	14.20	2.50	2.46	0.81	3.37	2.95	<0.01	0.31	0.06	0.09	0.01	0.07	1.51
W443825		2.02	72.3	13.95	2.82	3.18	0.78	3.38	1.97	<0.01	0.30	0.07	0.08	0.02	0.05	1.38
W443826		2.20	72.7	13.70	3.19	2.44	1.32	2.84	1.73	<0.01	0.31	0.08	0.10	0.01	0.04	1.53
W443827		2.15	72.2	13.50	3.59	2.69	1.94	2.37	1.85	<0.01	0.29	0.09	0.10	0.01	0.04	1.58
W443828		2.16	66.1	13.00	3.86	5.85	3.14	1.97	2.01	<0.01	0.28	0.15	0.09	0.01	0.04	1.60
W443829		2.09	73.9	13.85	2.86	2.71	1.18	2.98	1.59	<0.01	0.30	0.07	0.10	0.01	0.04	1.23
W443830		2.04	72.6	13.85	2.95	3.67	1.10	2.64	1.89	<0.01	0.30	0.08	0.10	0.01	0.04	1.41
W443831		2.12	66.2	19.50	2.67	2.78	1.05	2.54	3.81	0.03	0.70	0.11	0.06	0.02	0.07	1.59
W443832		2.13	73.5	13.05	2.41	4.46	0.92	2.05	2.30	0.01	0.31	0.10	0.10	0.01	0.04	1.54
W443833		2.22	73.1	12.70	2.38	4.84	0.74	2.34	2.29	<0.01	0.28	0.10	0.10	0.02	0.04	1.85
W443834		2.21	77.0	12.85	2.31	2.84	0.93	2.48	1.59	<0.01	0.28	0.07	0.09	0.01	0.03	1.32
W443835		2.28	74.3	12.80	2.73	4.57	0.81	2.43	1.64	<0.01	0.28	0.08	0.10	0.01	0.04	1.66
W443836		2.18	75.5	12.65	2.51	3.24	0.69	2.64	1.63	<0.01	0.26	0.07	0.11	0.02	0.03	1.28
W443837		2.11	73.7	13.70	3.34	2.87	1.21	2.72	1.72	<0.01	0.29	0.09	0.10	0.02	0.04	1.07
W443838		2.15	72.5	12.85	3.59	3.80	1.76	2.20	2.08	<0.01	0.28	0.13	0.09	0.01	0.04	1.35
W443839		2.23	70.6	14.75	3.29	3.55	0.88	2.65	2.13	0.01	0.37	0.09	0.08	0.02	0.05	1.34
W443840		2.20	73.8	14.25	3.29	3.65	0.74	2.82	1.53	<0.01	0.30	0.08	0.10	0.02	0.04	1.10
W443841		0.04	41.9	8.99	15.25	15.85	11.10	0.61	0.23	0.11	0.68	0.14	0.13	<0.01	0.03	4.08
W443842		2.15	71.8	13.20	3.44	3.74	1.12	1.64	1.83	<0.01	0.29	0.09	0.10	0.01	0.04	1.35
W443843		2.11	71.2	12.55	4.38	5.97	2.12	1.30	1.48	0.01	0.28	0.14	0.09	0.01	0.03	1.61
W443844		2.23	71.9	15.40	3.11	3.20	1.59	1.78	2.47	0.01	0.42	0.09	0.10	0.01	0.05	1.72
W443845		2.26	69.6	13.10	4.12	4.30	2.63	1.28	2.09	0.01	0.32	0.17	0.09	0.01	0.04	1.83
W443846		2.14	71.3	15.65	2.71	3.15	1.71	1.72	2.61	0.01	0.42	0.10	0.09	0.01	0.05	1.80
W443847		2.37	74.8	12.75	2.71	3.21	1.71	1.45	2.31	<0.01	0.28	0.10	0.08	0.01	0.04	1.50
W443848		2.33	77.2	11.55	3.58	1.80	1.37	1.15	1.80	<0.01	0.24	0.09	0.09	0.01	0.03	1.64
W443849		2.25	75.0	13.25	3.43	3.25	1.16	1.27	2.06	<0.01	0.28	0.08	0.11	0.01	0.04	1.51
W443850		2.25	70.4	12.15	2.62	7.87	0.75	0.91	1.91	<0.01	0.25	0.12	0.09	0.01	0.04	3.06
W443851		2.24	75.4	13.90	2.78	2.00	0.85	1.47	2.33	<0.01	0.29	0.06	0.11	0.01	0.05	1.27
W443852		2.26	74.2	12.65	2.98	3.19	1.02	1.28	2.02	<0.01	0.26	0.08	0.10	0.01	0.04	1.40
W443853		2.24	73.5	13.50	3.86	2.82	0.91	1.48	2.25	<0.01	0.28	0.09	0.11	0.01	0.04	1.73
W443854		2.28	73.0	11.15	4.85	5.75	0.88	1.14	1.16	<0.01	0.23	0.11	0.08	0.01	0.03	1.58
W443855		2.27	70.7	11.50	3.27	9.30	0.45	0.89	1.41	<0.01	0.24	0.17	0.10	0.01	0.03	2.61
W443856		2.37	72.4	11.95	2.69	6.20	0.54	1.12	1.82	<0.01	0.28	0.12	0.09	0.02	0.04	2.12
W443857		2.27	74.2	11.75	3.68	4.42	1.13	1.12	1.62	<0.01	0.25	0.11	0.09	0.01	0.04	1.63
W443858		0.04	46.9	12.65	20.7	6.24	6.82	2.14	0.63	0.03	1.22	0.19	0.16	0.03	0.02	1.12

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

Project: Gfields

CERTIFICATE OF ANALYSIS TB18014787

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
W443821		98.68	9.33	<0.01	307	1.0	<10	1.37	0.06	0.04	<0.03	0.4	0.07	<5	<0.2	0.02
W443822		100.38	0.12	0.08	440	52.0	20	0.57	1.05	0.48	0.67	18.7	1.56	<5	3.5	0.21
W443823		100.77	0.06	0.06	429	52.4	10	0.65	1.05	0.47	0.67	18.5	1.58	<5	3.5	0.17
W443824		100.44	0.06	0.10	654	60.7	20	0.73	1.16	0.51	0.94	17.7	1.76	<5	3.4	0.20
W443825		100.28	0.09	0.06	472	55.2	10	0.62	1.07	0.49	0.87	18.9	1.60	<5	3.5	0.18
W443826		99.99	0.03	0.08	402	51.3	20	1.14	1.06	0.54	0.66	18.2	1.68	<5	3.4	0.20
W443827		100.25	0.04	0.10	345	50.5	10	1.75	1.06	0.52	0.64	17.7	1.64	<5	3.3	0.20
W443828		98.10	0.08	0.06	399	51.8	10	1.31	1.06	0.46	0.71	17.6	1.69	<5	3.3	0.20
W443829		100.82	0.03	0.14	339	48.4	10	1.14	0.96	0.50	0.66	18.1	1.60	<5	3.6	0.18
W443830		100.64	0.07	0.17	406	54.3	10	0.78	1.15	0.50	0.73	18.2	1.67	<5	3.3	0.19
W443831		101.13	0.03	0.07	655	34.9	220	2.54	0.70	0.36	0.56	23.2	1.09	<5	2.8	0.12
W443832		100.80	0.22	0.17	374	42.2	40	1.61	0.90	0.40	0.56	16.8	1.39	<5	3.0	0.16
W443833		100.78	0.31	0.16	383	51.7	10	0.92	1.05	0.49	0.69	16.5	1.51	<5	3.3	0.19
W443834		101.80	0.05	0.21	308	51.9	10	0.88	0.99	0.46	0.65	17.0	1.47	<5	3.2	0.17
W443835		101.45	0.24	0.19	304	46.3	20	0.74	0.91	0.52	0.69	15.4	1.39	<5	2.9	0.18
W443836		100.63	0.10	0.19	285	47.6	20	0.67	0.92	0.48	0.67	15.7	1.38	<5	3.1	0.18
W443837		100.87	0.04	0.15	350	51.6	20	1.38	1.15	0.59	0.61	17.4	1.57	<5	3.7	0.20
W443838		100.68	0.08	0.16	364	46.6	20	1.10	0.91	0.50	0.62	16.6	1.51	<5	3.4	0.18
W443839		99.81	0.07	0.14	423	44.7	70	1.08	0.87	0.46	0.60	17.5	1.35	<5	3.2	0.16
W443840		101.72	0.05	0.16	359	53.4	20	0.78	1.08	0.55	0.69	18.2	1.64	<5	3.7	0.18
W443841		99.10	0.23	2.65	285	20.4	790	0.39	2.52	1.55	0.75	10.4	2.58	<5	2.0	0.57
W443842		98.65	0.04	0.33	345	46.9	30	1.14	0.99	0.50	0.51	16.0	1.45	<5	3.3	0.18
W443843		101.17	0.08	0.41	306	45.9	60	1.45	1.04	0.49	0.71	16.4	1.60	<5	3.2	0.17
W443844		101.85	0.02	0.17	472	42.4	110	1.50	1.06	0.55	0.57	18.7	1.44	<5	3.4	0.21
W443845		99.59	0.04	0.24	403	46.0	40	1.80	1.01	0.52	0.69	16.6	1.55	<5	3.5	0.19
W443846		101.33	0.01	0.09	456	43.9	90	1.85	0.91	0.49	0.50	19.9	1.39	<5	3.4	0.17
W443847		100.95	0.04	0.19	409	53.3	20	1.73	1.04	0.47	0.71	16.8	1.69	<5	3.5	0.19
W443848		100.55	0.02	0.22	291	47.6	10	1.38	0.92	0.44	0.52	14.8	1.32	<5	3.2	0.17
W443849		101.45	0.05	0.42	330	54.9	20	1.49	1.03	0.49	0.62	17.1	1.56	<5	3.8	0.18
W443850		100.18	0.74	0.26	349	52.4	20	0.72	1.03	0.56	0.86	15.4	1.74	<5	3.3	0.19
W443851		100.52	0.03	0.16	435	53.9	20	1.37	0.96	0.51	0.53	18.2	1.48	<5	3.9	0.19
W443852		99.23	0.07	0.26	342	51.7	10	1.65	1.02	0.53	0.59	16.4	1.52	<5	3.2	0.19
W443853		100.58	0.02	0.54	391	52.9	20	1.31	0.98	0.51	0.56	17.5	1.60	<5	3.4	0.18
W443854		99.97	0.10	0.85	281	44.4	20	0.67	0.95	0.47	0.72	14.4	1.69	<5	2.9	0.17
W443855		100.68	0.71	0.35	253	47.4	20	0.79	1.14	0.52	0.78	14.9	1.72	<5	3.0	0.19
W443856		99.39	0.45	0.25	347	46.3	30	1.08	1.02	0.48	0.65	16.0	1.70	<5	3.2	0.19
W443857		100.05	0.13	0.34	342	49.0	20	1.41	1.09	0.56	0.74	16.4	1.72	<5	3.3	0.21
W443858		98.85	0.08	1.73	221	28.4	260	0.96	2.59	1.40	1.15	15.6	2.78	<5	2.4	0.53

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

Project: Gfields

CERTIFICATE OF ANALYSIS TB18014787

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
W443821		0.6	0.01	0.3	0.3	0.10	5.2	0.09	<1	133.5	<0.1	0.01	0.08	0.01	0.27	<5
W443822		28.1	0.08	4.6	17.4	5.41	43.9	2.65	<1	199.5	0.4	0.19	5.08	0.07	0.91	32
W443823		28.0	0.07	4.5	17.6	5.39	43.0	2.53	<1	167.0	0.4	0.21	5.11	0.07	0.81	32
W443824		34.8	0.06	4.5	19.8	6.14	77.7	2.85	<1	115.0	0.4	0.20	5.19	0.07	0.86	33
W443825		31.3	0.06	4.5	18.4	5.68	43.9	2.54	<1	185.0	0.4	0.22	5.20	0.07	1.08	33
W443826		28.2	0.07	4.3	17.5	5.45	37.3	2.65	<1	140.5	0.3	0.21	4.79	0.08	0.89	40
W443827		27.3	0.07	4.3	17.1	5.19	41.8	2.48	<1	110.5	0.4	0.20	4.86	0.07	0.91	31
W443828		28.0	0.07	4.2	17.5	5.38	42.7	2.70	<1	113.5	0.4	0.20	4.80	0.07	0.76	31
W443829		26.1	0.07	4.4	16.6	5.00	37.6	2.55	<1	150.5	0.4	0.19	5.05	0.07	0.83	31
W443830		29.8	0.08	4.4	17.8	5.55	44.5	2.63	<1	159.0	0.4	0.22	5.01	0.08	0.92	33
W443831		19.2	0.05	4.4	11.7	3.63	87.3	1.78	1	158.0	0.3	0.13	3.38	0.05	0.83	112
W443832		23.0	0.06	3.9	14.1	4.32	53.5	2.02	1	116.5	0.3	0.16	4.11	0.06	1.17	33
W443833		28.2	0.06	4.2	16.9	5.25	53.8	2.28	<1	144.0	0.3	0.20	4.85	0.07	1.11	29
W443834		28.5	0.06	4.0	16.9	5.28	39.8	2.55	<1	139.5	0.3	0.18	4.73	0.07	1.04	32
W443835		25.4	0.06	3.8	15.5	4.75	35.2	2.20	<1	139.0	0.3	0.17	4.60	0.06	0.90	30
W443836		25.9	0.08	3.9	16.5	4.98	38.3	2.33	<1	162.5	0.3	0.18	4.67	0.06	1.02	31
W443837		27.9	0.07	4.6	18.0	5.44	46.4	2.52	<1	158.0	0.3	0.20	5.33	0.08	1.00	34
W443838		25.1	0.06	4.1	16.0	4.93	46.4	2.31	<1	129.0	0.3	0.19	4.74	0.06	0.93	32
W443839		24.0	0.07	4.3	15.5	4.65	48.3	2.13	<1	200	0.3	0.17	4.47	0.06	0.88	53
W443840		29.0	0.07	4.7	18.2	5.54	39.6	2.48	<1	193.5	0.3	0.21	5.27	0.06	1.01	36
W443841		9.8	0.21	6.2	11.0	2.53	5.0	2.62	2	67.2	0.3	0.42	2.04	0.22	0.98	184
W443842		25.0	0.06	4.0	16.1	4.91	45.4	2.37	<1	111.5	0.3	0.16	4.55	0.07	0.97	42
W443843		24.4	0.07	4.0	16.3	4.80	44.0	2.39	<1	127.0	0.3	0.20	4.43	0.07	0.92	45
W443844		22.6	0.07	4.4	15.1	4.43	58.5	2.27	<1	125.5	0.3	0.19	4.46	0.07	0.84	92
W443845		24.8	0.07	4.1	16.0	4.84	63.5	2.25	<1	138.5	0.3	0.18	4.41	0.06	0.96	47
W443846		23.2	0.06	4.3	15.1	4.49	64.3	2.13	<1	106.5	0.3	0.17	4.52	0.06	0.96	73
W443847		29.9	0.07	4.4	18.0	5.56	58.2	2.47	1	110.5	0.4	0.21	4.82	0.06	0.93	38
W443848		26.5	0.07	3.7	16.0	4.88	43.8	2.30	<1	78.2	0.3	0.18	4.43	0.06	0.92	34
W443849		30.4	0.07	4.4	18.6	5.66	46.6	2.47	1	102.0	0.3	0.18	5.17	0.06	1.01	38
W443850		27.9	0.06	3.8	18.8	5.54	38.9	2.89	<1	116.0	0.3	0.20	4.57	0.07	1.02	30
W443851		29.2	0.08	4.5	18.0	5.46	51.1	2.45	<1	108.0	0.4	0.20	5.46	0.07	0.92	36
W443852		27.8	0.06	4.1	17.8	5.41	47.0	2.31	<1	113.5	0.3	0.20	5.14	0.06	1.02	33
W443853		28.6	0.07	4.5	18.1	5.48	51.4	2.36	<1	126.5	0.3	0.21	5.31	0.07	1.12	37
W443854		23.7	0.06	3.7	16.0	4.68	27.4	2.45	<1	120.5	0.3	0.20	4.39	0.06	1.12	36
W443855		25.4	0.07	3.9	17.7	5.04	32.0	2.74	<1	128.0	0.3	0.23	4.42	0.06	1.08	32
W443856		24.5	0.07	4.7	16.2	4.96	43.0	2.53	<1	134.5	0.3	0.23	4.64	0.07	1.04	32
W443857		26.4	0.07	4.1	17.7	5.13	41.2	2.69	1	120.0	0.3	0.22	4.77	0.07	0.89	31
W443858		12.9	0.20	7.3	14.1	3.52	17.1	3.12	6	275	0.4	0.44	1.87	0.20	0.48	132

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

Project: Gfields

CERTIFICATE OF ANALYSIS TB18014787

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
W443821		1	0.5	0.05	2	0.6	0.02	<0.005	<0.005	<0.001	0.06	<0.2	<0.01	0.09	<0.5	<0.5
W443822		2	5.2	0.45	150	0.9	0.08	<0.005	0.008	<0.001	<0.05	<0.2	<0.01	0.04	<0.5	<0.5
W443823		1	5.2	0.42	148	0.6	0.11	<0.005	0.005	<0.001	<0.05	<0.2	<0.01	0.04	<0.5	<0.5
W443824		1	5.7	0.46	147	0.7	0.10	<0.005	0.007	<0.001	<0.05	<0.2	<0.01	0.04	<0.5	<0.5
W443825		1	5.5	0.48	146	0.6	0.06	<0.005	0.008	<0.001	0.05	<0.2	<0.01	0.03	<0.5	<0.5
W443826		1	5.8	0.53	146	0.3	0.03	<0.005	0.006	<0.001	<0.05	<0.2	<0.01	0.05	<0.5	<0.5
W443827		1	5.5	0.52	140	0.3	0.02	<0.005	0.005	<0.001	<0.05	<0.2	<0.01	0.11	<0.5	<0.5
W443828		56	5.7	0.43	137	0.3	0.03	<0.005	0.009	<0.001	<0.05	<0.2	<0.01	0.06	<0.5	<0.5
W443829		1	5.3	0.45	143	0.5	0.05	<0.005	0.005	<0.001	<0.05	<0.2	0.01	0.06	<0.5	<0.5
W443830		1	5.7	0.42	148	0.3	0.05	<0.005	0.008	<0.001	<0.05	<0.2	0.02	0.08	<0.5	<0.5
W443831		1	3.7	0.37	118	0.5	0.05	<0.005	0.010	<0.001	<0.05	<0.2	0.01	0.13	<0.5	<0.5
W443832		1	4.7	0.46	128	0.6	0.11	<0.005	0.008	<0.001	0.08	<0.2	0.01	0.07	<0.5	<0.5
W443833		<1	5.2	0.48	134	0.8	0.25	<0.005	0.007	<0.001	0.18	<0.2	<0.01	0.07	<0.5	<0.5
W443834		1	4.9	0.47	138	0.3	0.04	<0.005	0.006	<0.001	<0.05	<0.2	0.01	0.07	<0.5	<0.5
W443835		1	4.9	0.36	116	0.9	0.03	<0.005	0.008	<0.001	<0.05	<0.2	0.01	0.07	<0.5	<0.5
W443836		1	5.0	0.39	128	0.3	0.02	<0.005	0.007	<0.001	<0.05	<0.2	0.01	0.06	<0.5	<0.5
W443837		1	5.8	0.54	152	0.2	0.02	<0.005	0.009	<0.001	<0.05	<0.2	0.01	0.13	<0.5	<0.5
W443838		1	5.3	0.37	143	0.2	0.05	<0.005	0.007	<0.001	<0.05	<0.2	0.01	0.12	<0.5	<0.5
W443839		1	4.6	0.38	129	0.3	0.05	<0.005	0.008	<0.001	<0.05	<0.2	0.02	0.10	<0.5	<0.5
W443840		1	5.6	0.46	154	0.2	0.08	<0.005	0.006	<0.001	<0.05	<0.2	0.01	0.07	<0.5	<0.5
W443841		2	14.6	1.34	80	41.3	0.32	0.111	0.052	0.019	1.46	11.1	1.23	0.07	2.8	1.2
W443842		1	5.1	0.45	133	0.5	0.12	<0.005	0.007	<0.001	<0.05	<0.2	0.02	0.12	<0.5	<0.5
W443843		1	5.4	0.46	127	0.4	0.14	<0.005	0.012	<0.001	<0.05	<0.2	0.07	0.14	<0.5	0.7
W443844		1	5.4	0.46	130	0.2	0.08	<0.005	0.011	<0.001	<0.05	<0.2	0.02	0.11	<0.5	<0.5
W443845		1	5.4	0.47	140	0.3	0.09	<0.005	0.009	<0.001	<0.05	0.2	0.03	0.25	<0.5	<0.5
W443846		1	5.0	0.44	130	0.3	0.04	<0.005	0.006	<0.001	<0.05	<0.2	0.02	0.13	<0.5	<0.5
W443847		1	5.4	0.46	140	0.4	0.06	<0.005	0.007	<0.001	<0.05	<0.2	0.02	0.08	<0.5	<0.5
W443848		1	4.9	0.41	132	<0.1	0.03	<0.005	<0.005	<0.001	<0.05	<0.2	0.01	0.04	<0.5	<0.5
W443849		7	5.4	0.39	149	0.3	0.05	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	0.09	<0.5	<0.5
W443850		1	5.5	0.44	132	0.4	0.05	<0.005	<0.005	<0.001	<0.05	<0.2	0.01	0.07	<0.5	<0.5
W443851		1	5.4	0.42	159	0.2	0.02	<0.005	<0.005	<0.001	<0.05	<0.2	<0.01	0.10	<0.5	<0.5
W443852		1	5.2	0.37	127	0.5	0.06	<0.005	0.005	<0.001	<0.05	<0.2	0.02	0.09	<0.5	<0.5
W443853		1	5.5	0.43	140	0.2	0.06	<0.005	0.005	<0.001	<0.05	<0.2	0.03	0.08	<0.5	<0.5
W443854		1	5.2	0.48	120	0.3	0.05	<0.005	0.008	<0.001	<0.05	<0.2	0.03	0.10	<0.5	<0.5
W443855		2	5.7	0.43	124	0.5	0.02	<0.005	0.006	<0.001	0.05	<0.2	0.02	0.09	<0.5	<0.5
W443856		1	5.5	0.41	131	1.1	0.01	<0.005	0.005	<0.001	<0.05	<0.2	0.02	0.09	<0.5	<0.5
W443857		1	6.1	0.47	131	0.3	0.05	<0.005	0.006	<0.001	<0.05	<0.2	0.04	0.10	<0.5	<0.5
W443858		6	13.9	1.27	94	3.9	0.83	0.009	0.065	0.007	0.37	5.1	0.60	0.10	2.0	1.4

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

Project: Gfields

CERTIFICATE OF ANALYSIS TB18014787

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
W443821		1	1	30	<1	<1	6	<1	18	<0.001	<0.005	0.002	<0.003
W443822		7	8	30	1	11	6	3	49	<0.001	<0.005	<0.001	0.005
W443823		5	13	30	1	7	4	3	10	<0.001	<0.005	<0.001	0.003
W443824		4	18	40	1	4	<2	3	8	0.001	<0.005	<0.001	0.008
W443825		5	10	30	1	6	6	3	8	<0.001	<0.005	<0.001	0.009
W443826		6	10	40	1	12	10	4	21	<0.001	<0.005	<0.001	0.017
W443827		6	9	40	1	12	11	4	28	<0.001	<0.005	<0.001	0.017
W443828		3	6	30	1	6	25	3	66	<0.001	<0.005	<0.001	0.014
W443829		6	11	40	1	8	12	4	29	<0.001	<0.005	0.002	0.014
W443830		6	19	30	<1	11	6	4	58	<0.001	<0.005	<0.001	0.031
W443831		8	27	30	1	16	9	8	52	<0.001	0.005	0.005	0.047
W443832		6	13	20	<1	9	4	4	38	<0.001	<0.005	0.001	0.027
W443833		6	7	20	<1	7	6	3	20	<0.001	<0.005	<0.001	0.017
W443834		8	11	30	1	8	29	4	81	<0.001	<0.005	<0.001	0.014
W443835		7	10	20	1	11	5	3	27	<0.001	<0.005	0.001	0.009
W443836		7	11	20	<1	14	4	3	12	<0.001	<0.005	<0.001	0.008
W443837		7	9	30	1	12	7	4	24	<0.001	<0.005	0.001	0.007
W443838		8	14	30	<1	13	6	3	79	<0.001	<0.005	0.001	0.023
W443839		10	18	30	<1	17	5	5	30	<0.001	<0.005	0.001	0.067
W443840		6	18	30	<1	10	5	3	20	<0.001	<0.005	<0.001	0.041
W443841		150	5480	40	2	2100	6	25	76	0.093	0.714	0.370	10.85
W443842		10	38	30	2	16	5	4	109	<0.001	<0.005	<0.001	0.121
W443843		12	81	30	4	21	11	4	256	<0.001	<0.005	<0.001	0.150
W443844		16	38	40	1	29	4	8	67	<0.001	<0.005	0.002	0.208
W443845		14	49	50	2	18	2	5	126	<0.001	<0.005	0.001	0.146
W443846		10	22	40	1	15	3	7	88	<0.001	<0.005	0.002	0.077
W443847		7	24	30	1	10	8	4	211	<0.001	<0.005	0.001	0.084
W443848		8	10	30	<1	13	6	4	55	<0.001	<0.005	<0.001	0.044
W443849		13	8	30	<1	19	3	4	18	<0.001	<0.005	<0.001	0.053
W443850		6	6	20	<1	12	4	3	77	<0.001	<0.005	<0.001	0.040
W443851		7	4	20	1	11	6	3	16	<0.001	<0.005	<0.001	0.010
W443852		8	6	20	<1	13	3	3	26	<0.001	<0.005	<0.001	0.031
W443853		14	18	20	1	17	5	4	35	<0.001	<0.005	<0.001	0.068
W443854		12	17	20	<1	16	3	4	47	<0.001	<0.005	<0.001	0.092
W443855		10	5	10	<1	13	3	3	23	<0.001	<0.005	<0.001	0.037
W443856		13	8	20	<1	16	2	3	21	<0.001	<0.005	0.001	0.038
W443857		11	7	30	<1	15	<2	3	55	<0.001	<0.005	<0.001	0.063
W443858		114	4390	20	4	4290	24	12	101	0.044	0.284	0.602	4.77

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

Project: Gfields

CERTIFICATE OF ANALYSIS TB18014787

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		