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: 8-FEB-2018
Account: NAPEHZEU

CERTIFICATE TB18012300

Project: Gfields

P.O. No.: 178845

This report is for 78 Drill Core samples submitted to our lab in Thunder Bay, ON, Canada on 18-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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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
W443547		1.28	16.65	0.22	0.17	26.7	20.8	0.10	0.06	<0.01	0.01	0.05	0.01	0.01	0.01	35.2
W443548		0.04	42.6	9.22	15.30	16.25	11.10	0.61	0.23	0.11	0.69	0.14	0.13	0.01	0.03	3.60
W443549		2.48	48.2	13.75	13.60	10.60	7.87	2.09	0.54	0.02	0.79	0.24	0.07	0.02	0.01	1.09
W443550		2.56	45.6	13.60	15.40	10.75	8.85	1.81	0.51	0.02	0.85	0.24	0.08	0.01	0.01	1.92
W443551		2.51	49.0	13.95	12.95	10.20	7.22	2.43	0.67	0.02	0.89	0.22	0.07	0.02	0.01	0.90
W443552		2.55	49.1	13.80	13.20	10.45	6.91	2.31	0.56	0.02	0.86	0.22	0.08	0.01	0.01	0.81
W443553		3.22	51.3	14.05	12.65	9.87	6.38	2.00	0.62	0.02	0.85	0.22	0.08	0.02	0.01	0.90
W443554		1.35	77.5	12.45	3.99	1.31	0.95	1.13	1.97	<0.01	0.23	0.18	0.05	0.01	0.04	1.59
W443555		2.36	77.2	11.55	5.38	1.29	0.98	1.38	1.67	<0.01	0.20	0.18	0.06	0.02	0.02	1.98
W443556		2.42	77.7	12.15	2.87	1.77	0.51	1.08	1.21	<0.01	0.21	0.07	0.07	0.02	0.02	1.58
W443557		2.24	79.2	12.55	2.96	1.82	0.51	1.04	1.45	<0.01	0.22	0.13	0.07	0.02	0.02	1.47
W443558		2.72	78.2	12.35	2.42	1.89	0.50	1.14	1.40	<0.01	0.22	0.12	0.07	0.02	0.03	1.45
W443559		2.47	74.7	12.05	5.48	2.05	1.19	0.97	1.50	<0.01	0.21	0.09	0.06	0.02	0.02	2.66
W443560		1.54	71.5	12.15	6.61	2.33	1.44	1.21	1.49	<0.01	0.21	0.16	0.07	0.02	0.03	2.96
W443561		5.29	13.50	1.53	41.5	1.17	0.56	0.07	0.08	<0.01	0.06	0.04	0.01	<0.01	<0.01	25.7
W443562		3.90	9.75	2.18	37.8	1.49	0.81	0.12	0.14	0.01	0.12	0.04	0.01	<0.01	<0.01	27.6
W443563		4.14	12.45	3.50	41.5	1.09	0.98	0.12	0.77	0.01	0.24	0.03	0.03	<0.01	0.01	26.5
W443564		4.87	16.95	4.71	40.6	1.90	2.21	0.38	0.62	0.01	0.42	0.11	0.04	<0.01	0.02	23.4
W443565		2.41	51.5	13.90	14.05	6.92	5.78	2.13	0.90	0.02	1.44	0.37	0.13	0.01	0.02	3.32
W443566		2.70	6.05	1.92	46.6	0.46	0.35	0.08	0.36	<0.01	0.13	0.02	0.01	<0.01	0.01	29.6
W443567		0.04	47.2	13.00	21.2	6.38	6.83	2.17	0.64	0.03	1.24	0.19	0.15	0.03	0.02	1.02
W443568		3.70	5.27	0.65	40.9	0.25	0.25	0.07	0.10	<0.01	0.03	0.01	0.01	<0.01	<0.01	31.1
W443569		3.83	6.19	1.19	40.9	0.28	0.39	0.09	0.24	<0.01	0.08	0.02	<0.01	<0.01	0.01	30.4
W443570		3.52	6.50	0.96	46.8	0.17	0.24	0.08	0.17	0.01	0.07	0.01	0.01	<0.01	0.01	35.7
W443571		3.64	12.30	2.34	30.9	0.28	0.64	0.15	0.33	<0.01	0.12	0.02	0.02	<0.01	0.01	27.8
W443572		2.76	11.70	2.60	44.7	0.35	0.70	0.22	0.32	<0.01	0.14	0.02	0.02	<0.01	0.01	27.1
W443573		2.57	48.0	15.45	13.95	8.17	6.05	0.88	1.54	0.04	0.65	0.17	0.05	0.01	0.03	4.92
W443574		4.24	18.15	3.17	41.5	1.24	1.29	0.33	0.28	<0.01	0.13	0.05	0.02	<0.01	0.01	24.3
W443575		3.40	20.2	3.72	33.0	0.83	1.21	0.21	0.44	0.01	0.21	0.04	0.03	<0.01	0.01	24.0
W443576		1.85	17.10	2.26	29.5	2.22	1.52	0.10	0.08	0.01	0.21	0.07	0.02	<0.01	<0.01	25.1
W443577		1.68	65.0	12.05	12.75	1.42	3.24	0.94	0.89	0.01	1.29	0.22	0.11	<0.01	0.02	2.99
W443578		1.67	74.0	13.95	2.96	0.93	1.76	1.22	2.40	<0.01	0.23	0.06	0.07	<0.01	0.03	2.12
W443579		3.27	34.2	5.20	29.7	0.97	0.78	0.39	0.82	0.01	0.21	0.04	0.05	<0.01	0.01	18.85
W443580		2.01	72.4	15.30	3.06	2.72	1.84	1.28	2.52	<0.01	0.26	0.07	0.08	0.01	0.04	2.03
W443581		3.14	42.6	11.10	21.6	7.90	3.48	1.31	0.74	0.03	0.62	0.16	0.05	0.01	0.02	8.95
W443582		2.46	52.0	15.75	10.85	12.15	5.01	2.31	0.45	0.04	0.90	0.21	0.07	0.01	0.01	0.91
W443583		2.20	50.8	15.35	10.60	11.30	5.13	2.50	0.43	0.04	0.88	0.21	0.05	0.01	0.01	1.03
W443584		2.28	51.0	15.65	11.20	10.20	6.35	2.59	0.48	0.04	0.91	0.21	0.06	0.01	0.01	2.68
W443585		2.30	50.5	15.30	11.05	11.75	5.43	2.69	0.26	0.04	0.89	0.22	0.06	0.01	0.01	0.89
W443586		2.44	50.4	15.20	11.30	12.05	5.70	2.24	0.31	0.04	0.86	0.21	0.06	0.01	0.01	0.78

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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	0.1	10	0.01	0.05	0.03	0.03	0.1	0.05	5	0.2	0.01
W443547		99.99	9.69	<0.01	93.7	0.9	<10	0.58	0.08	0.05	<0.03	0.3	0.07	<5	<0.2	0.01
W443548		100.02	0.24	2.50	272	19.5	700	0.41	2.26	1.42	0.72	9.9	2.76	<5	1.9	0.48
W443549		98.89	0.09	0.10	96.5	10.7	130	0.48	2.95	1.93	0.74	15.0	2.88	<5	1.5	0.64
W443550		99.65	0.03	1.24	95.6	11.9	140	0.77	3.82	2.22	0.81	16.7	3.56	<5	1.7	0.80
W443551		98.55	0.03	0.36	107.0	12.5	140	0.37	3.48	2.22	0.88	16.7	2.88	<5	1.7	0.73
W443552		98.34	0.03	0.28	102.5	11.9	140	0.29	3.51	2.10	0.81	16.2	3.01	<5	1.8	0.72
W443553		98.97	0.02	0.27	104.0	14.8	110	0.37	3.36	2.10	0.79	15.8	2.83	<5	1.9	0.72
W443554		101.40	<0.01	0.17	316	44.4	20	1.58	0.89	0.36	0.48	14.2	1.31	<5	2.8	0.15
W443555		101.91	<0.01	1.44	177.5	43.1	20	1.75	0.79	0.43	0.54	13.9	1.17	<5	2.5	0.13
W443556		99.26	<0.01	0.59	178.5	43.3	20	2.34	0.65	0.36	0.50	14.9	1.22	<5	2.7	0.13
W443557		101.46	<0.01	0.43	205	44.6	10	2.15	0.76	0.44	0.46	15.6	1.09	<5	2.9	0.13
W443558		99.81	<0.01	0.21	209	43.7	20	1.97	0.78	0.36	0.48	14.8	1.33	<5	2.7	0.13
W443559		101.00	0.01	2.28	213	43.4	30	2.37	0.72	0.33	0.48	15.2	1.19	<5	2.8	0.12
W443560		100.18	0.01	2.90	259	45.0	10	2.66	0.81	0.39	0.55	14.8	1.29	<5	2.8	0.16
W443561		84.22	0.03	42.8	16.5	6.4	20	0.20	0.78	0.55	0.15	2.5	0.64	<5	0.9	0.17
W443562		80.07	0.05	44.1	22.8	3.8	40	0.29	0.71	0.46	0.20	2.7	0.49	<5	0.6	0.15
W443563		87.23	0.11	42.2	104.0	7.4	40	1.37	1.18	0.77	0.20	4.7	0.99	<5	0.8	0.27
W443564		91.37	0.07	36.6	128.0	7.2	40	0.81	1.68	1.11	0.47	6.1	1.50	<5	0.9	0.37
W443565		100.49	0.02	3.87	170.0	14.0	100	0.88	5.07	3.24	1.17	17.7	4.01	<5	2.5	1.12
W443566		85.59	0.03	47.9	113.0	3.9	20	0.50	0.45	0.28	0.10	1.8	0.44	<5	0.4	0.11
W443567		100.10	0.07	1.86	191.5	24.4	210	0.83	2.24	1.32	0.95	13.9	2.45	<5	2.1	0.44
W443568		78.64	0.07	49.8	32.3	2.9	30	0.14	0.44	0.28	0.06	1.0	0.30	<5	0.3	0.09
W443569		79.79	0.07	48.7	56.1	4.7	40	0.24	0.58	0.37	0.06	1.2	0.43	<5	0.4	0.13
W443570		90.73	0.11	49.9	38.7	1.8	80	0.21	0.23	0.14	0.07	1.2	0.17	<5	0.2	0.05
W443571		74.91	0.03	44.7	57.4	6.8	40	0.43	0.55	0.37	0.15	2.9	0.62	<5	0.7	0.13
W443572		87.88	0.10	44.3	64.8	6.5	10	0.51	0.71	0.40	0.15	3.6	0.62	<5	0.8	0.14
W443573		99.91	0.14	5.30	219	6.9	270	2.49	2.07	1.44	0.48	14.6	1.69	<5	1.3	0.46
W443574		90.47	0.04	39.5	39.4	8.1	20	0.55	0.57	0.45	0.14	3.8	0.61	<5	1.0	0.14
W443575		83.91	0.01	38.3	85.0	12.8	40	0.75	1.31	0.94	0.21	5.2	1.24	<5	1.5	0.29
W443576		78.19	0.05	40.8	10.6	8.1	50	0.26	1.26	0.74	0.24	3.1	1.07	<5	0.7	0.25
W443577		100.93	0.01	1.19	133.5	10.9	60	1.73	3.04	2.32	0.51	15.5	2.29	<5	2.5	0.74
W443578		99.73	0.01	0.14	255	14.9	10	3.80	0.71	0.34	0.32	18.5	1.07	<5	2.8	0.14
W443579		91.23	0.02	29.9	106.0	11.3	80	0.95	0.81	0.45	0.29	8.0	0.91	<5	1.5	0.16
W443580		101.61	0.03	0.51	330	21.9	30	2.50	0.94	0.36	0.46	20.9	1.39	<5	3.2	0.14
W443581		98.57	0.13	13.20	126.0	8.3	190	0.73	2.33	1.49	0.59	12.8	1.99	<5	1.3	0.53
W443582		100.67	0.20	0.26	102.5	7.8	300	0.21	3.45	2.13	0.74	17.3	2.77	<5	1.4	0.75
W443583		98.34	0.23	0.20	91.7	7.5	290	0.27	3.51	2.11	0.72	17.4	2.66	<5	1.5	0.73
W443584		101.39	0.09	0.19	97.8	7.9	310	0.72	3.41	2.23	0.75	18.0	2.87	<5	1.5	0.76
W443585		99.10	0.16	0.15	64.1	7.6	290	0.13	3.27	2.33	0.71	17.1	2.84	<5	1.4	0.73
W443586		99.17	0.14	0.14	62.3	8.3	280	0.15	3.32	2.19	0.75	16.7	2.58	<5	1.5	0.72

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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
W443547		0.6	0.01	0.2	0.4	0.09	1.5	0.06	<1	113.0	<0.1	0.01	0.12	<0.01	0.35	<5
W443548		9.4	0.19	6.2	10.1	2.43	4.5	2.58	2	60.2	0.3	0.41	1.84	0.20	0.97	166
W443549		4.5	0.27	2.7	7.2	1.53	13.1	2.21	1	135.5	0.2	0.50	0.52	0.26	0.13	264
W443550		4.9	0.31	3.2	8.8	1.76	13.8	2.79	<1	128.5	0.2	0.59	0.48	0.29	0.12	275
W443551		5.1	0.30	3.3	8.2	1.74	19.2	2.40	1	151.0	0.2	0.51	0.53	0.33	0.13	298
W443552		4.9	0.28	3.2	8.1	1.71	15.2	2.47	1	144.5	0.2	0.54	0.52	0.31	0.15	301
W443553		6.7	0.29	3.4	9.0	2.03	15.5	2.42	1	163.5	0.2	0.52	0.79	0.29	0.19	271
W443554		24.0	0.06	3.5	14.9	4.47	46.5	2.00	1	109.0	0.3	0.17	4.29	0.07	0.85	26
W443555		23.2	0.07	3.4	13.8	4.45	41.0	1.99	1	117.5	0.3	0.16	4.22	0.06	0.93	21
W443556		24.0	0.05	3.6	14.2	4.43	34.1	1.80	<1	179.0	0.3	0.14	4.57	0.05	1.01	21
W443557		23.7	0.05	3.5	14.8	4.55	35.5	2.22	1	167.0	0.3	0.15	4.69	0.06	0.95	21
W443558		23.5	0.05	3.6	14.3	4.54	35.0	1.94	<1	160.5	0.3	0.16	4.68	0.05	0.95	20
W443559		23.4	0.05	3.8	14.2	4.53	39.7	1.84	1	150.0	0.3	0.14	4.62	0.05	0.96	24
W443560		24.2	0.07	3.5	14.7	4.60	37.8	1.93	1	141.0	0.3	0.16	4.70	0.05	1.08	26
W443561		2.8	0.07	1.5	3.0	0.80	2.1	0.65	1	22.4	0.1	0.12	1.05	0.08	0.57	18
W443562		1.5	0.07	1.0	2.0	0.48	2.8	0.56	<1	15.0	0.1	0.10	0.46	0.07	0.28	30
W443563		3.1	0.11	1.5	3.8	0.97	18.0	0.96	<1	15.6	0.1	0.18	0.55	0.13	0.26	57
W443564		3.3	0.17	1.5	4.5	0.99	16.6	1.29	1	39.1	0.1	0.27	0.36	0.16	0.14	115
W443565		5.7	0.47	4.1	10.0	2.00	24.8	3.20	2	128.5	0.2	0.75	0.46	0.47	0.12	385
W443566		2.1	0.04	0.9	1.9	0.47	10.6	0.45	<1	12.0	0.1	0.07	0.27	0.05	0.13	28
W443567		10.9	0.16	6.4	12.4	3.00	14.1	2.60	3	225	0.4	0.35	1.31	0.16	0.41	106
W443568		1.2	0.03	0.5	1.5	0.37	2.5	0.31	<1	5.8	<0.1	0.06	0.29	0.04	0.10	10
W443569		2.2	0.06	0.8	2.2	0.59	6.1	0.48	<1	7.6	<0.1	0.08	0.32	0.06	0.13	17
W443570		0.9	0.02	0.6	0.9	0.21	4.7	0.19	<1	4.6	<0.1	0.02	0.15	0.02	0.09	12
W443571		3.1	0.06	1.0	3.5	0.85	8.9	0.76	<1	10.6	0.1	0.10	0.48	0.05	0.17	22
W443572		3.0	0.06	1.2	3.2	0.82	8.6	0.66	<1	11.8	0.1	0.11	0.54	0.05	0.18	24
W443573		2.8	0.23	2.2	4.6	0.96	37.1	1.40	2	103.0	0.1	0.32	0.36	0.21	0.11	202
W443574		3.8	0.06	1.4	3.8	0.99	6.5	0.77	<1	18.4	0.1	0.10	0.72	0.06	0.24	21
W443575		5.6	0.14	2.9	6.5	1.65	11.5	1.40	1	22.8	0.2	0.21	0.98	0.12	0.32	26
W443576		3.5	0.10	1.8	4.3	0.99	2.0	1.07	1	21.6	0.1	0.17	0.52	0.10	0.17	31
W443577		4.6	0.37	4.4	7.3	1.58	24.9	1.92	1	46.9	0.3	0.40	0.64	0.37	0.21	308
W443578		7.6	0.05	2.3	6.4	1.71	67.1	1.20	1	35.3	0.2	0.14	1.79	0.05	0.60	31
W443579		5.7	0.07	2.3	5.4	1.39	22.7	1.05	<1	24.7	0.1	0.14	0.87	0.06	0.30	32
W443580		12.3	0.04	2.8	9.3	2.53	70.4	1.70	1	79.9	0.2	0.17	2.14	0.06	0.71	31
W443581		3.7	0.23	2.2	5.7	1.17	19.6	1.61	<1	95.3	0.1	0.35	0.42	0.21	0.13	206
W443582		3.0	0.31	2.5	6.5	1.20	11.3	1.92	<1	146.0	0.1	0.52	0.20	0.33	0.05	323
W443583		2.7	0.33	2.4	6.4	1.21	11.4	2.05	<1	132.5	0.2	0.48	0.21	0.31	0.05	318
W443584		3.1	0.33	2.7	6.4	1.21	13.3	2.06	<1	133.5	0.1	0.51	0.22	0.31	0.05	333
W443585		3.0	0.30	2.4	6.1	1.22	5.7	2.00	<1	140.0	0.1	0.51	0.22	0.33	<0.05	318
W443586		3.1	0.30	3.1	6.2	1.23	7.4	1.95	<1	137.0	0.1	0.48	0.24	0.30	0.05	306

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

Project: Gfields

CERTIFICATE OF ANALYSIS TB18012300

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
W443547		1	0.5	0.05	4	1.0	0.01	<0.005	<0.005	<0.001	0.06	0.3	<0.01	0.06	<0.5	<0.5
W443548		1	13.2	1.32	74	42.4	0.33	0.109	0.049	0.017	1.54	11.6	1.42	0.07	3.1	1.0
W443549		1	16.6	1.64	56	0.4	0.03	0.007	0.009	0.001	0.06	0.3	0.03	0.05	<0.5	0.7
W443550		1	22.2	2.18	63	0.7	0.08	<0.005	0.013	0.002	0.06	0.8	0.38	0.05	<0.5	0.5
W443551		1	18.7	1.98	66	0.5	0.05	<0.005	0.010	0.002	0.05	0.4	0.08	0.05	<0.5	<0.5
W443552		1	18.8	2.02	66	0.3	0.04	<0.005	0.012	0.001	<0.05	0.5	0.06	0.04	<0.5	<0.5
W443553		1	17.9	1.96	71	0.4	0.04	<0.005	0.010	0.002	0.05	0.3	0.05	0.04	<0.5	0.5
W443554		2	4.3	0.40	109	0.1	0.02	<0.005	0.005	<0.001	<0.05	0.3	0.01	0.07	<0.5	<0.5
W443555		70	4.1	0.41	107	0.2	0.09	0.009	0.006	0.001	0.06	0.2	0.03	0.11	<0.5	<0.5
W443556		1	3.5	0.39	113	0.2	0.04	0.010	<0.005	<0.001	<0.05	<0.2	0.01	0.06	<0.5	<0.5
W443557		1	4.1	0.36	119	0.1	0.04	0.005	<0.005	<0.001	<0.05	<0.2	0.01	0.10	<0.5	<0.5
W443558		1	3.6	0.31	111	0.2	0.02	0.012	<0.005	<0.001	<0.05	<0.2	<0.01	0.10	<0.5	<0.5
W443559		1	3.5	0.39	117	1.7	0.13	0.005	<0.005	0.001	0.11	<0.2	0.03	0.28	<0.5	<0.5
W443560		1	4.1	0.53	113	3.3	0.04	0.018	0.006	0.002	0.14	0.3	0.06	0.51	<0.5	<0.5
W443561		1	4.6	0.62	37	56.9	0.15	0.021	0.009	0.004	0.58	2.4	0.72	0.14	0.5	<0.5
W443562		1	4.0	0.49	22	59.8	0.30	0.032	0.014	0.003	0.54	2.0	0.50	0.09	<0.5	<0.5
W443563		1	6.7	0.80	31	54.1	0.24	0.028	0.011	0.002	0.42	2.5	0.32	0.61	<0.5	<0.5
W443564		1	9.8	1.07	32	66.5	0.08	0.047	0.014	0.001	0.86	3.5	0.33	0.37	<0.5	<0.5
W443565		1	28.1	3.21	92	6.2	0.02	0.037	0.022	0.001	1.45	0.6	0.23	0.21	<0.5	<0.5
W443566		2	2.6	0.33	16	82.9	0.13	0.041	0.009	0.001	4.02	3.0	0.34	0.26	<0.5	<0.5
W443567		3	11.6	1.15	89	3.8	0.87	0.011	0.063	0.006	0.36	5.4	0.61	0.10	1.9	1.2
W443568		1	2.4	0.29	13	91.8	0.24	0.092	0.019	<0.001	10.20	3.1	0.75	0.15	0.5	<0.5
W443569		1	3.4	0.43	19	82.6	0.18	0.086	0.018	0.001	8.32	2.6	0.62	0.20	<0.5	<0.5
W443570		1	1.4	0.17	11	87.1	0.51	0.120	0.016	0.002	12.15	2.1	0.82	0.34	0.8	<0.5
W443571		1	3.5	0.38	28	71.9	0.14	0.065	0.033	0.002	2.53	3.7	0.26	0.26	<0.5	<0.5
W443572		1	3.6	0.43	34	50.6	0.03	0.047	0.021	0.002	0.73	3.7	0.17	0.18	<0.5	<0.5
W443573		1	11.9	1.46	47	10.7	0.08	0.106	0.038	0.002	0.47	1.0	0.31	0.29	<0.5	1.2
W443574		2	3.5	0.39	37	61.3	0.08	0.061	0.020	0.002	0.54	5.0	0.33	0.13	<0.5	0.6
W443575		<1	7.8	0.83	62	48.1	0.06	0.058	0.036	0.002	0.61	4.3	0.26	0.15	<0.5	1.0
W443576		1	6.8	0.63	28	42.3	0.12	0.034	0.020	0.003	0.87	4.1	0.40	0.15	<0.5	0.5
W443577		1	16.4	2.51	94	1.1	0.11	0.008	0.018	0.001	0.06	0.6	0.02	0.10	<0.5	<0.5
W443578		1	3.4	0.35	112	0.3	0.01	<0.005	<0.005	<0.001	<0.05	<0.2	0.01	0.10	<0.5	<0.5
W443579		1	4.3	0.48	63	37.9	0.16	0.024	0.024	0.002	0.24	5.3	0.49	0.12	<0.5	<0.5
W443580		1	4.3	0.35	131	0.7	0.02	0.012	0.006	0.001	0.06	<0.2	0.05	0.12	<0.5	<0.5
W443581		4	13.5	1.52	49	17.0	0.08	0.012	0.021	0.002	0.14	2.7	0.27	0.16	<0.5	1.1
W443582		<1	19.6	2.13	55	0.3	0.02	0.005	0.006	0.001	0.07	0.4	0.02	0.11	<0.5	<0.5
W443583		1	19.3	1.95	55	0.5	0.02	0.007	0.008	<0.001	0.05	0.4	0.02	0.09	<0.5	<0.5
W443584		5	19.4	2.05	57	0.5	0.01	<0.005	0.009	0.001	<0.05	0.5	0.01	0.09	<0.5	<0.5
W443585		1	18.8	2.11	54	0.4	0.01	0.006	0.006	0.001	<0.05	0.3	0.02	0.06	<0.5	<0.5
W443586		1	18.5	1.87	53	0.2	0.01	<0.005	0.006	0.001	<0.05	0.3	0.01	0.08	<0.5	<0.5

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

Project: Gfields

CERTIFICATE OF ANALYSIS TB18012300

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
W443547		2	3	20	<1	1	4	<1	27	<0.001	<0.005	0.001	0.003
W443548		148	5340	40	3	2060	2	24	78	0.092	0.740	0.372	11.95
W443549		49	106	20	1	84	<2	36	153	0.001	0.012	0.008	0.274
W443550		67	331	30	1	85	<2	36	165	0.002	0.011	0.010	0.680
W443551		45	111	20	<1	71	3	36	108	<0.001	0.009	0.009	0.262
W443552		50	118	20	<1	82	4	38	120	<0.001	0.012	0.009	0.301
W443553		45	90	20	<1	75	<2	35	128	0.001	0.011	0.007	0.251
W443554		5	10	30	1	9	2	3	46	<0.001	<0.005	<0.001	0.038
W443555		8	32	30	2	15	5	3	77	<0.001	<0.005	<0.001	0.075
W443556		5	12	70	1	8	3	2	37	<0.001	<0.005	0.001	0.021
W443557		3	11	60	2	6	4	2	33	<0.001	<0.005	<0.001	0.019
W443558		3	6	50	2	3	3	2	35	<0.001	<0.005	<0.001	0.006
W443559		9	16	50	3	26	6	3	62	0.002	<0.005	0.001	0.110
W443560		7	10	40	1	22	8	3	74	0.004	<0.005	0.002	0.135
W443561		61	64	10	4	106	5	1	13	0.001	<0.005	0.001	<0.003
W443562		50	42	10	11	66	5	4	91	<0.001	<0.005	0.001	<0.003
W443563		64	34	10	3	53	4	7	44	<0.001	<0.005	<0.001	<0.003
W443564		63	55	20	2	56	5	13	184	0.007	0.009	<0.001	<0.003
W443565		15	33	40	1	50	25	42	228	<0.001	<0.005	<0.001	0.507
W443566		56	49	10	2	51	11	4	45	0.004	<0.005	<0.001	<0.003
W443567		115	4470	20	5	4310	22	12	109	0.055	0.274	0.642	4.70
W443568		52	33	<10	3	39	22	1	43	0.016	<0.005	0.001	<0.003
W443569		49	28	10	3	40	12	3	37	0.011	<0.005	<0.001	0.003
W443570		46	24	10	3	49	24	2	112	0.014	<0.005	0.001	0.003
W443571		58	41	10	3	62	9	3	108	0.005	<0.005	<0.001	0.007
W443572		45	84	10	2	64	<2	3	99	<0.001	<0.005	0.002	<0.003
W443573		48	95	50	1	139	10	27	537	<0.001	0.007	0.007	0.917
W443574		56	93	10	2	70	9	2	205	0.006	<0.005	<0.001	<0.003
W443575		46	77	10	3	59	12	4	230	0.005	<0.005	<0.001	<0.003
W443576		49	73	10	4	69	14	4	162	0.001	<0.005	<0.001	0.005
W443577		26	75	50	2	33	4	25	242	<0.001	<0.005	0.001	0.402
W443578		4	10	60	3	7	3	4	76	<0.001	<0.005	<0.001	0.014
W443579		38	62	20	2	43	9	3	188	0.011	<0.005	0.009	0.006
W443580		4	22	40	18	4	19	4	123	<0.001	<0.005	<0.001	0.117
W443581		47	106	20	1	98	12	28	234	0.004	0.005	<0.001	0.008
W443582		54	149	10	1	149	2	44	90	<0.001	<0.005	0.002	0.396
W443583		54	152	20	<1	150	<2	43	114	<0.001	<0.005	0.001	0.351
W443584		55	167	20	<1	151	<2	46	124	<0.001	<0.005	0.001	0.383
W443585		55	147	10	1	154	<2	45	102	<0.001	<0.005	0.001	0.361
W443586		53	144	10	1	146	<2	43	99	0.001	<0.005	0.001	0.351

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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 TB18012300

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
W443587		1.35	13.15	0.09	0.12	28.2	20.3	0.04	0.03	<0.01	0.01	0.05	0.01	0.01	0.02	29.7
W443588		2.58	50.8	15.25	10.85	11.20	5.25	2.45	0.24	0.04	0.87	0.20	0.05	0.01	0.01	0.89
W443589		2.61	49.9	14.80	11.95	11.65	6.90	2.11	0.38	0.04	0.85	0.21	0.07	0.01	0.01	1.06
W443590		2.39	49.4	14.05	12.40	10.40	8.38	2.00	0.54	0.04	0.81	0.20	0.06	0.01	0.01	0.96
W443591		2.49	49.5	14.40	12.15	11.60	7.66	1.89	0.49	0.04	0.81	0.19	0.05	0.01	0.01	0.80
W443592		2.47	49.2	14.70	12.70	11.15	7.48	2.27	0.49	0.04	0.86	0.20	0.07	0.01	0.01	0.85
W443593		2.47	50.3	14.80	12.35	10.95	7.85	2.28	0.49	0.04	0.85	0.20	0.06	0.01	0.01	0.86
W443594		2.50	48.7	14.55	12.20	10.25	7.97	2.46	0.39	0.04	0.84	0.19	0.07	0.01	0.01	1.35
W443595		2.43	49.2	14.60	12.20	10.85	7.62	2.17	0.44	0.04	0.84	0.20	0.06	0.01	0.01	0.74
W443596		2.56	49.1	14.45	12.10	11.00	7.67	2.25	0.30	0.04	0.83	0.20	0.06	0.01	0.01	0.70
W443597		2.45	49.2	14.40	12.25	10.80	7.81	2.25	0.32	0.04	0.84	0.20	0.07	0.01	0.01	0.85
W443598		2.58	49.5	14.40	12.05	10.85	7.58	2.45	0.29	0.04	0.82	0.20	0.05	0.01	0.01	1.18
W443599		2.51	47.1	13.40	13.50	12.20	7.14	1.76	0.34	0.03	0.72	0.27	0.04	0.01	0.01	2.01
W443600		2.42	48.3	14.00	12.00	11.85	7.16	2.10	0.27	0.04	0.79	0.23	0.05	0.01	0.01	2.01
W443601		2.57	47.9	14.35	14.75	11.05	6.23	1.90	0.19	0.04	0.82	0.27	0.07	0.01	0.01	2.30
W443602		2.69	48.7	14.45	13.00	10.30	7.20	2.24	0.28	0.03	0.89	0.22	0.06	0.01	0.01	0.79
W443603		2.60	49.4	14.75	13.05	10.40	7.32	2.38	0.30	0.03	0.92	0.21	0.07	0.01	0.01	0.80
W443604		2.54	49.7	14.65	12.85	10.50	6.92	2.63	0.28	0.04	0.86	0.23	0.06	0.01	0.01	1.03
W443605		2.56	50.5	14.95	11.10	10.80	5.73	3.06	0.24	0.05	0.81	0.19	0.05	0.01	0.01	1.46
W443606		2.73	49.3	14.35	12.10	11.40	7.40	2.22	0.40	0.05	0.78	0.20	0.05	0.01	0.01	1.22
W443607		0.04	42.5	9.00	15.00	15.55	10.70	0.62	0.23	0.11	0.69	0.15	0.12	0.01	0.03	4.46
W443608		2.66	50.1	14.95	10.80	13.10	5.14	2.45	0.22	0.05	0.80	0.19	0.06	0.02	0.01	1.99
W443609		2.46	50.9	15.15	10.85	10.90	5.22	2.62	0.27	0.04	0.93	0.20	0.06	0.01	0.01	1.27
W443610		2.62	50.1	13.65	15.20	10.80	4.63	1.47	0.57	<0.01	1.35	0.24	0.11	0.01	0.01	1.62
W443611		1.99	50.1	14.00	15.90	10.15	4.92	1.71	0.53	<0.01	1.34	0.23	0.11	0.01	0.01	0.94
W443612		1.86	50.0	13.30	16.70	10.10	5.45	1.91	0.43	0.01	1.44	0.26	0.12	0.01	0.01	0.88
W443613		1.85	58.9	15.65	6.23	7.21	3.89	5.13	1.11	0.01	0.60	0.09	0.27	0.10	0.05	1.21
W443614		1.98	51.7	15.85	10.30	10.20	5.35	3.94	0.18	0.05	0.85	0.19	0.06	0.02	0.01	1.02
W443615		2.73	50.0	15.75	10.70	12.40	4.92	3.22	0.20	0.05	0.84	0.19	0.06	0.02	0.01	1.92
W443616		2.79	50.8	16.50	11.60	10.75	5.66	3.49	0.27	0.05	0.89	0.21	0.05	0.01	0.01	1.22
W443617		2.79	48.3	14.10	12.20	11.10	8.35	2.42	0.31	0.04	0.77	0.21	0.05	0.01	0.01	1.18
W443618		2.67	47.8	14.55	12.65	9.57	9.64	2.62	0.24	0.04	0.78	0.22	0.06	0.01	0.01	1.72
W443619		1.94	48.8	14.50	13.10	8.21	7.97	2.71	0.25	0.03	0.86	0.21	0.07	0.01	0.01	1.40
W443620		1.62	46.8	14.10	13.20	10.75	7.65	1.25	0.88	0.03	0.85	0.20	0.05	0.01	0.02	2.95
W443621		1.72	50.7	10.75	5.29	15.25	7.73	0.61	0.70	0.01	0.23	0.18	0.04	<0.01	0.01	7.74
W443622		1.71	54.4	13.70	5.57	11.10	7.14	1.02	1.02	0.02	0.44	0.16	0.05	0.01	0.01	4.77
W443623		2.06	63.0	13.95	7.41	5.21	3.44	1.55	1.53	0.01	0.32	0.10	0.05	<0.01	0.02	3.96
W443624		0.04	47.0	12.75	21.1	6.25	6.92	2.20	0.63	0.03	1.24	0.19	0.14	0.03	0.02	1.17

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

Project: Gfields

CERTIFICATE OF ANALYSIS TB18012300

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	0.1	10	0.01	0.05	0.03	0.03	0.1	0.05	5	0.2	0.01
W443587		91.73	9.93	<0.01	134.0	0.9	<10	0.44	0.05	0.03	<0.03	0.2	0.07	<5	<0.2	0.01
W443588		98.11	0.17	0.19	53.8	7.9	290	0.14	3.49	2.10	0.73	17.7	2.68	<5	1.5	0.69
W443589		99.94	0.12	0.17	73.3	9.0	340	0.25	4.00	2.53	0.85	20.6	3.22	<5	1.7	0.88
W443590		99.26	0.02	0.11	62.3	6.2	240	0.31	2.91	1.88	0.61	14.3	2.43	<5	1.2	0.62
W443591		99.60	0.04	0.14	64.3	7.2	270	0.36	3.13	2.15	0.69	15.9	2.34	<5	1.4	0.71
W443592		100.03	0.04	0.15	55.8	6.4	240	0.36	2.93	1.82	0.59	14.5	2.34	<5	1.2	0.61
W443593		101.05	0.02	0.10	70.5	7.7	290	0.43	3.46	2.41	0.73	17.1	2.70	<5	1.5	0.74
W443594		99.03	0.03	0.12	65.9	7.4	280	0.76	3.51	2.13	0.72	16.5	2.76	<5	1.9	0.75
W443595		98.98	0.01	0.12	70.4	7.5	280	0.39	3.28	2.19	0.73	16.5	2.68	<5	1.4	0.73
W443596		98.72	0.02	0.07	46.9	7.4	280	0.22	3.43	2.22	0.73	16.6	2.69	<5	1.5	0.78
W443597		99.05	0.03	0.14	54.9	7.1	270	0.28	3.04	2.05	0.71	16.3	2.59	<5	1.4	0.67
W443598		99.43	0.03	0.07	50.3	7.4	280	0.34	3.22	2.06	0.69	16.6	2.72	<5	1.4	0.67
W443599		98.53	0.30	0.66	67.0	7.0	240	0.59	3.02	2.01	0.70	15.2	2.62	<5	1.3	0.65
W443600		98.82	0.28	0.42	61.8	7.3	270	0.35	3.19	2.06	0.83	15.7	2.74	<5	1.3	0.70
W443601		99.89	0.18	1.71	51.2	8.0	260	0.26	3.27	2.10	0.79	17.6	2.62	<5	1.5	0.76
W443602		98.18	0.02	0.18	65.2	7.6	240	0.23	3.60	2.39	0.74	18.0	2.92	<5	1.5	0.81
W443603		99.65	0.01	0.13	67.6	8.2	240	0.21	3.91	2.60	0.78	18.2	3.10	<5	1.6	0.85
W443604		99.77	0.05	0.15	68.4	7.4	310	0.18	3.63	2.36	0.71	16.9	2.79	<5	1.6	0.79
W443605		98.96	0.18	0.18	68.5	6.7	340	0.29	3.22	1.96	0.66	16.0	2.55	<5	1.3	0.69
W443606		99.49	0.08	0.08	99.1	7.0	350	0.42	3.13	2.05	0.73	16.6	2.63	<5	1.3	0.70
W443607		99.17	0.24	2.69	278	20.1	790	0.43	2.57	1.59	0.67	11.1	2.77	<5	2.1	0.52
W443608		99.88	0.42	0.21	50.1	6.9	330	0.15	3.27	2.00	0.70	18.4	2.40	<5	1.4	0.70
W443609		98.43	0.19	0.13	66.2	8.6	300	0.42	3.65	2.23	0.81	17.4	2.91	<5	1.8	0.76
W443610		99.76	0.24	0.14	108.0	15.3	40	0.74	5.29	3.39	1.22	21.1	4.25	<5	2.5	1.14
W443611		99.95	0.10	0.13	106.0	15.9	40	0.48	4.86	3.10	1.17	20.6	4.29	<5	2.6	1.05
W443612		100.62	0.05	0.23	85.9	17.4	50	0.42	5.40	3.41	1.30	20.5	4.70	<5	2.9	1.18
W443613		100.45	0.15	0.28	471	96.6	90	0.35	3.00	1.38	2.08	20.2	5.33	<5	4.1	0.57
W443614		99.72	0.16	0.17	77.6	7.5	360	0.42	3.07	1.93	0.65	16.2	2.55	<5	1.5	0.68
W443615		100.28	0.44	0.24	76.4	7.9	370	0.38	3.36	2.23	0.91	19.1	2.92	<5	1.5	0.75
W443616		101.51	0.16	0.40	79.3	8.0	380	0.33	3.44	2.13	0.82	17.3	2.74	<5	1.6	0.73
W443617		99.05	0.09	0.07	77.3	6.8	330	0.26	3.00	1.91	0.66	15.4	2.36	<5	1.4	0.66
W443618		99.91	0.04	0.11	63.4	6.8	320	0.45	3.00	1.88	0.75	16.0	2.28	<5	1.4	0.63
W443619		98.13	0.02	0.12	45.1	7.9	190	0.35	2.88	1.83	0.63	13.7	2.49	<5	1.3	0.63
W443620		98.74	0.29	0.13	205	7.6	240	1.40	3.32	2.20	0.78	16.1	2.81	<5	1.4	0.72
W443621		99.24	1.92	0.07	82.3	13.4	40	1.68	0.79	0.45	0.38	13.4	0.97	<5	2.2	0.15
W443622		99.41	0.86	0.12	115.0	13.9	110	3.04	1.43	0.82	0.47	16.5	1.34	<5	2.4	0.29
W443623		100.55	0.25	3.39	180.0	17.9	60	2.88	1.16	0.59	0.49	18.6	1.43	<5	2.7	0.25
W443624		99.67	0.08	1.76	215	26.3	240	1.00	2.39	1.40	1.17	15.3	2.82	<5	2.5	0.50

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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 TB18012300

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
W443587		0.6	<0.01	0.3	0.4	0.09	0.9	0.06	<1	136.5	<0.1	0.01	0.13	<0.01	0.38	5
W443588		3.0	0.32	2.4	6.1	1.20	5.5	1.96	<1	143.5	0.1	0.49	0.23	0.31	0.05	326
W443589		3.5	0.38	3.1	6.9	1.42	12.9	2.44	1	160.0	0.2	0.59	0.22	0.37	0.06	379
W443590		2.4	0.27	2.2	5.3	0.96	14.2	1.52	<1	99.1	0.1	0.38	0.17	0.26	<0.05	261
W443591		2.7	0.30	2.2	5.6	1.09	14.4	1.78	<1	119.5	0.1	0.50	0.19	0.28	<0.05	294
W443592		2.4	0.27	2.1	5.3	1.00	13.4	1.64	<1	107.0	0.1	0.41	0.15	0.27	<0.05	267
W443593		3.0	0.32	2.6	6.3	1.22	16.1	2.15	<1	127.5	0.1	0.53	0.21	0.32	0.05	321
W443594		2.9	0.31	2.4	6.1	1.11	12.4	1.90	<1	123.0	0.1	0.47	0.21	0.32	0.07	308
W443595		2.9	0.31	2.4	6.2	1.17	14.2	2.08	<1	119.0	0.1	0.50	0.24	0.34	0.05	310
W443596		2.8	0.32	2.4	6.1	1.12	8.4	1.91	<1	115.5	0.1	0.49	0.19	0.33	0.05	309
W443597		2.6	0.27	2.3	5.6	1.12	9.7	1.87	<1	119.0	0.1	0.47	0.21	0.35	0.05	297
W443598		2.7	0.33	2.4	5.9	1.13	7.8	1.88	2	114.0	0.1	0.49	0.20	0.31	0.05	301
W443599		2.9	0.28	2.0	5.4	1.13	8.9	1.73	1	102.5	0.1	0.47	0.20	0.30	0.08	281
W443600		2.9	0.32	2.1	5.9	1.10	6.8	1.97	<1	108.5	0.1	0.48	0.20	0.30	0.05	296
W443601		3.3	0.33	2.4	6.3	1.24	5.2	2.10	<1	117.0	0.1	0.50	0.26	0.32	0.10	294
W443602		2.9	0.34	2.2	6.5	1.20	7.9	2.21	<1	106.0	0.1	0.55	0.20	0.37	0.06	309
W443603		3.1	0.39	2.4	6.7	1.26	7.2	2.12	1	111.0	0.1	0.53	0.23	0.39	0.06	313
W443604		2.8	0.32	2.4	6.2	1.24	6.9	2.05	<1	104.5	0.1	0.53	0.23	0.36	0.05	316
W443605		2.6	0.29	2.2	5.4	1.03	6.6	1.86	<1	134.0	0.1	0.46	0.18	0.32	0.05	300
W443606		2.6	0.30	2.3	6.1	1.08	11.9	2.03	<1	137.5	0.1	0.47	0.17	0.31	<0.05	308
W443607		10.2	0.21	6.8	10.6	2.55	4.7	2.53	2	64.1	0.4	0.41	1.97	0.22	0.98	177
W443608		2.7	0.28	2.2	5.6	1.13	4.9	1.79	1	174.0	0.1	0.46	0.18	0.29	0.06	307
W443609		3.5	0.33	2.7	6.9	1.37	6.8	2.08	<1	113.5	0.2	0.52	0.30	0.35	0.21	326
W443610		6.3	0.47	4.7	10.9	2.34	15.9	3.33	1	102.0	0.3	0.75	0.61	0.46	0.17	389
W443611		6.0	0.47	4.7	11.1	2.32	14.6	3.14	1	107.0	0.3	0.73	0.64	0.48	0.14	449
W443612		6.8	0.51	5.0	12.4	2.54	10.4	3.34	1	104.0	0.3	0.82	0.73	0.53	0.43	463
W443613		44.7	0.17	6.8	44.9	11.80	21.6	7.59	1	863	0.4	0.61	8.05	0.18	2.44	139
W443614		2.7	0.33	2.5	5.9	1.19	3.2	1.95	1	156.5	0.1	0.47	0.21	0.30	0.08	351
W443615		2.9	0.35	2.2	6.1	1.20	4.2	2.04	1	174.0	0.1	0.50	0.22	0.33	0.07	355
W443616		3.0	0.36	2.4	6.4	1.23	6.3	2.01	1	133.0	0.2	0.50	0.22	0.33	0.08	366
W443617		2.5	0.29	2.1	5.3	1.05	7.3	1.91	1	125.0	0.1	0.43	0.19	0.28	0.05	314
W443618		2.5	0.28	2.2	5.3	1.09	5.0	1.90	1	109.5	0.1	0.44	0.19	0.29	0.05	314
W443619		3.1	0.31	1.9	5.8	1.17	3.4	1.62	1	91.1	0.1	0.44	0.51	0.27	0.05	265
W443620		3.0	0.33	2.2	6.2	1.18	25.9	2.19	1	110.0	0.1	0.49	0.25	0.34	0.05	315
W443621		6.9	0.06	2.0	5.6	1.47	21.3	1.14	1	66.6	0.2	0.15	1.32	0.07	0.46	52
W443622		6.9	0.13	2.5	6.4	1.66	29.3	1.44	1	76.8	0.2	0.21	1.22	0.12	0.39	140
W443623		9.2	0.10	2.5	7.8	1.97	38.0	1.49	1	72.2	0.2	0.21	1.73	0.09	0.55	80
W443624		12.1	0.20	7.0	13.5	3.20	16.0	2.88	4	252	0.4	0.40	1.69	0.20	0.53	132

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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 TB18012300

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
W443587		3	0.5	<0.03	2	0.7	0.02	0.011	<0.005	<0.001	0.11	<0.2	0.01	0.05	<0.5	<0.5
W443588		<1	19.1	2.09	55	0.2	0.02	<0.005	0.007	0.002	<0.05	0.5	0.02	0.07	<0.5	0.5
W443589		1	21.9	2.36	63	0.1	0.02	0.006	0.007	0.001	<0.05	0.4	0.02	0.06	<0.5	<0.5
W443590		1	15.9	1.76	45	0.2	0.02	0.006	0.006	0.001	<0.05	0.4	0.01	0.05	<0.5	<0.5
W443591		2	17.7	1.89	50	0.3	0.02	<0.005	0.006	0.001	<0.05	0.3	0.02	0.04	<0.5	0.5
W443592		1	16.1	1.76	46	0.3	0.03	<0.005	0.009	<0.001	<0.05	0.5	0.03	0.04	<0.5	<0.5
W443593		1	19.4	2.18	54	0.2	0.02	<0.005	0.006	0.001	<0.05	0.5	0.01	0.04	<0.5	0.5
W443594		1	18.7	2.06	70	0.3	0.03	0.006	0.010	0.001	<0.05	0.6	0.01	0.05	<0.5	<0.5
W443595		1	18.4	2.03	53	0.2	0.03	<0.005	0.007	0.007	<0.05	0.4	0.01	0.03	<0.5	<0.5
W443596		<1	18.7	2.02	53	0.2	0.01	<0.005	0.006	0.001	<0.05	0.5	0.01	0.03	<0.5	0.5
W443597		1	18.0	2.06	51	0.2	0.02	<0.005	0.009	<0.001	<0.05	0.5	0.01	0.03	<0.5	0.6
W443598		1	18.5	2.01	51	0.3	0.01	<0.005	0.009	<0.001	<0.05	0.5	0.01	0.03	<0.5	<0.5
W443599		1	17.6	1.92	47	0.2	0.05	<0.005	0.009	0.001	<0.05	1.0	0.06	0.06	<0.5	0.7
W443600		1	17.9	1.78	50	0.3	0.03	<0.005	0.010	0.001	<0.05	0.4	0.04	0.03	<0.5	0.5
W443601		1	18.9	2.22	55	0.2	0.13	<0.005	0.009	0.001	<0.05	1.2	0.12	0.07	<0.5	0.5
W443602		1	20.7	2.41	58	0.2	0.03	<0.005	0.010	0.001	<0.05	0.5	0.02	0.03	<0.5	0.6
W443603		<1	22.3	2.39	62	0.2	0.02	0.005	0.009	0.001	<0.05	0.6	0.01	0.03	<0.5	0.5
W443604		1	19.7	2.18	55	0.2	0.03	<0.005	0.008	0.001	<0.05	0.6	0.02	0.02	<0.5	<0.5
W443605		<1	17.5	1.89	49	0.3	0.03	<0.005	0.008	0.001	<0.05	0.7	0.03	0.04	<0.5	0.6
W443606		1	17.9	1.91	50	0.2	0.02	<0.005	0.006	0.001	<0.05	0.4	0.02	0.05	<0.5	0.5
W443607		1	14.2	1.35	85	39.0	0.30	0.118	0.049	0.013	1.32	10.7	1.28	0.06	2.8	1.2
W443608		1	17.8	1.85	49	0.2	0.03	<0.005	0.009	0.001	<0.05	1.0	0.06	0.06	<0.5	0.5
W443609		3	19.9	2.15	62	0.1	0.01	<0.005	0.009	<0.001	<0.05	0.7	0.01	0.06	<0.5	0.5
W443610		1	28.6	3.03	98	0.3	0.01	<0.005	0.014	<0.001	<0.05	0.4	0.02	0.04	<0.5	0.9
W443611		1	29.5	3.14	94	0.1	0.01	<0.005	0.016	0.001	<0.05	0.5	<0.01	0.03	<0.5	0.7
W443612		1	31.6	3.34	104	0.1	0.03	<0.005	0.018	0.002	<0.05	0.6	0.02	0.04	<0.5	0.7
W443613		1	15.0	1.12	153	0.3	0.07	<0.005	0.013	<0.001	<0.05	0.3	<0.01	0.07	<0.5	<0.5
W443614		1	18.8	1.90	51	0.2	0.02	0.005	0.008	0.001	<0.05	0.4	0.03	0.05	<0.5	0.6
W443615		1	20.3	2.10	52	0.2	0.01	<0.005	0.008	0.001	<0.05	0.5	0.02	0.06	<0.5	0.5
W443616		1	20.6	2.23	54	0.1	0.02	<0.005	0.008	0.001	<0.05	0.7	0.03	0.05	<0.5	<0.5
W443617		1	17.4	1.89	46	0.1	0.02	<0.005	0.008	<0.001	<0.05	0.4	0.02	0.04	<0.5	0.7
W443618		3	17.4	2.03	46	0.2	0.02	<0.005	0.008	<0.001	<0.05	0.5	0.02	0.04	<0.5	0.6
W443619		1	18.0	1.80	46	0.1	0.02	<0.005	0.012	0.001	<0.05	0.5	0.01	0.03	<0.5	0.6
W443620		1	20.9	2.13	53	0.2	0.03	0.006	0.008	<0.001	<0.05	0.3	0.02	0.08	<0.5	0.8
W443621		16	4.3	0.37	89	0.2	0.01	<0.005	<0.005	<0.001	<0.05	0.2	<0.01	0.13	<0.5	<0.5
W443622		1	7.6	0.85	82	1.4	0.02	0.012	0.009	<0.001	0.06	0.3	0.03	0.45	<0.5	<0.5
W443623		2	6.3	0.57	106	7.1	0.02	0.014	<0.005	0.001	0.23	1.1	0.17	0.92	<0.5	<0.5
W443624		3	13.2	1.18	100	3.8	0.84	0.014	0.065	0.004	0.31	4.6	0.70	0.10	1.9	1.7

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

ALS Canada Ltd.

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www.alsglobal.com/geochemistry

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

Finalized Date: 8-FEB-2018
Account: NAPEHZEU

Project: Gfields

CERTIFICATE OF ANALYSIS TB18012300

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
W443587		1	3	10	<1	3	<2	<1	30	<0.001	<0.005	0.001	<0.003
W443588		54	165	10	<1	152	<2	45	102	<0.001	<0.005	0.001	0.397
W443589		52	155	20	<1	150	2	41	98	<0.001	<0.005	0.001	0.366
W443590		49	102	20	<1	162	3	38	96	0.007	<0.005	0.001	0.301
W443591		50	115	10	<1	152	<2	39	93	<0.001	<0.005	0.001	0.340
W443592		49	130	20	<1	120	3	41	93	<0.001	<0.005	0.001	0.425
W443593		49	130	20	<1	125	<2	40	83	<0.001	<0.005	0.001	0.329
W443594		50	141	30	<1	133	<2	42	114	0.001	<0.005	0.001	0.357
W443595		50	141	20	9	132	<2	41	84	<0.001	<0.005	0.001	0.332
W443596		53	141	20	1	138	<2	42	89	0.003	<0.005	0.001	0.282
W443597		52	153	20	<1	140	<2	42	109	0.002	<0.005	0.001	0.398
W443598		45	97	20	<1	126	<2	39	95	0.006	<0.005	0.001	0.224
W443599		50	186	20	1	134	2	38	109	<0.001	0.005	0.004	0.743
W443600		50	147	20	1	126	3	39	113	<0.001	<0.005	0.003	0.414
W443601		57	174	20	<1	132	<2	39	106	<0.001	<0.005	0.001	1.215
W443602		49	111	20	<1	128	<2	37	101	<0.001	<0.005	0.001	0.352
W443603		51	112	20	<1	132	<2	40	88	<0.001	<0.005	0.001	0.300
W443604		49	123	20	<1	138	<2	40	85	0.005	<0.005	0.002	0.338
W443605		49	127	20	<1	137	<2	41	93	<0.001	<0.005	0.004	0.402
W443606		49	127	20	<1	137	<2	40	90	<0.001	<0.005	0.003	0.318
W443607		154	5490	50	3	2110	4	25	81	0.091	0.738	0.372	11.65
W443608		53	318	10	1	141	<2	43	98	0.004	<0.005	0.003	0.824
W443609		52	163	10	2	136	<2	43	89	0.002	<0.005	0.003	0.447
W443610		46	104	20	1	43	<2	37	117	<0.001	<0.005	<0.001	0.321
W443611		46	103	20	<1	43	3	38	103	0.001	<0.005	<0.001	0.327
W443612		49	134	20	1	48	4	41	116	<0.001	<0.005	<0.001	0.489
W443613		21	43	10	<1	75	12	13	66	<0.001	<0.005	<0.001	0.137
W443614		47	127	10	<1	134	<2	41	83	0.004	<0.005	0.004	0.395
W443615		51	172	10	<1	138	<2	42	83	0.003	<0.005	0.004	0.480
W443616		57	199	10	1	150	<2	42	90	0.001	<0.005	0.004	0.616
W443617		48	135	20	<1	140	<2	39	85	<0.001	<0.005	0.004	0.282
W443618		49	128	20	<1	140	2	27	88	0.001	<0.005	0.003	0.371
W443619		48	124	30	<1	132	5	34	114	0.001	<0.005	0.001	0.307
W443620		45	97	50	<1	126	<2	38	116	<0.001	<0.005	0.001	0.267
W443621		9	14	10	<1	15	<2	6	56	0.002	<0.005	0.001	0.075
W443622		20	78	30	1	45	4	16	91	0.001	<0.005	0.001	0.115
W443623		19	23	20	1	32	12	9	57	<0.001	<0.005	<0.001	1.045
W443624		111	4530	20	5	4420	20	12	104	0.082	0.209	0.563	4.90

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CERTIFICATE OF ANALYSIS TB18012300

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		