ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **OSISKO MINING LTD.**
P.O. BOX 996
KIRKLAND LAKE ON P2N 3L1

Finalized Date: 31-MAR-2014
Account: OSIKLI

CERTIFICATE VO14042596

Project: MU

P.O. No.: KL 000347

This report is for 62 Drill Core samples submitted to our lab in Val d'Or, QC, Canada on 12-MAR-2014.

The following have access to data associated with this certificate:

MIKE FELL	ANDREW STOKES	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
FND-02	Find Sample for Addn Analysis

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP61	33 element four acid ICP-AES	ICP-AES

To: **OSISKO MINING LTD.**
ATTN: ANDREW STOKES
P.O. BOX 996
KIRKLAND LAKE ON P2N 3L1

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 VO14042596

Sample Description	Method / Analyte / Units / LOR	ME-ICP61 Ag ppm 0.5	ME-ICP61 Al % 0.01	ME-ICP61 As ppm 5	ME-ICP61 Ba ppm 10	ME-ICP61 Be ppm 0.5	ME-ICP61 Bi ppm 2	ME-ICP61 Ca % 0.01	ME-ICP61 Cd ppm 0.5	ME-ICP61 Co ppm 1	ME-ICP61 Cr ppm 1	ME-ICP61 Cu ppm 1	ME-ICP61 Fe % 0.01	ME-ICP61 Ga ppm 10	ME-ICP61 K % 0.01	ME-ICP61 La ppm 10
H406752		0.9	5.77	45	4720	1.3	<2	2.74	<0.5	10	32	209	3.41	30	5.82	110
H406753		0.6	6.51	44	1040	1.5	2	2.28	<0.5	10	26	143	3.65	30	6.24	120
H406754		0.6	6.21	27	4360	1.6	<2	3.01	<0.5	12	59	213	3.60	30	6.49	150
H406755		0.9	6.01	18	4200	1.6	<2	3.27	<0.5	12	57	258	3.40	30	6.57	290
H406756		1.2	6.49	20	4810	2.2	2	3.08	<0.5	11	43	243	2.91	30	6.81	750
H406757		1.0	6.70	21	2930	1.9	<2	3.36	<0.5	14	48	424	3.44	40	6.78	220
H406758		1.0	6.50	22	1620	1.9	2	3.41	<0.5	12	47	260	3.40	30	6.28	210
H406759		1.1	6.86	13	5740	1.9	<2	2.10	<0.5	5	21	195	1.66	30	6.21	180
H406760		1.7	6.79	16	2540	1.8	5	2.21	<0.5	6	22	501	2.05	30	5.91	420
H406761		1.2	6.74	21	2060	2.0	<2	2.92	<0.5	10	42	231	2.88	40	6.05	240
H406762		1.1	6.67	23	1870	2.5	<2	3.10	<0.5	10	44	274	2.83	40	6.65	370
H406763		1.4	6.56	21	4050	2.5	<2	3.13	<0.5	10	44	213	3.08	30	6.64	560
H406764		0.5	6.77	27	1440	1.6	2	2.89	<0.5	11	51	231	2.94	30	6.57	170
H406765		0.6	6.88	22	2310	1.7	<2	2.61	<0.5	10	49	190	2.84	30	6.31	130
H406766		<0.5	6.93	19	1530	2.1	<2	2.66	<0.5	10	52	199	2.93	30	6.45	80
H406767		0.8	6.70	25	1520	2.2	<2	2.51	<0.5	10	42	229	2.86	30	5.68	200
H406768		0.9	6.73	25	2420	2.1	<2	2.63	<0.5	10	38	217	2.91	30	6.00	380
H406769		0.9	6.72	18	1350	1.8	<2	2.53	<0.5	9	32	281	2.79	40	6.01	240
H406770		0.9	6.01	19	720	1.4	<2	2.19	<0.5	6	31	223	2.43	30	3.96	160
H406771		2.5	4.36	17	640	1.9	4	5.90	<0.5	14	86	261	3.49	20	4.60	350
H406772		0.8	6.25	26	830	2.6	<2	2.23	<0.5	6	30	241	2.48	30	4.12	110
H406773		0.9	6.21	28	610	2.5	<2	3.04	<0.5	8	53	291	2.96	30	4.81	440
H406774		1.0	5.76	28	250	2.0	<2	4.59	<0.5	15	77	375	4.06	20	4.67	280
H406775		<0.5	0.42	6	30	<0.5	<2	33.2	<0.5	<1	5	3	0.44	<10	0.24	10
H406776		0.9	7.64	89	130	4.2	<2	2.28	<0.5	18	63	94	5.52	20	3.65	10
H406777		1.7	6.11	25	480	1.6	<2	3.73	<0.5	11	48	283	3.03	30	4.55	250
H406778		0.6	6.34	23	900	2.9	<2	3.25	<0.5	8	60	293	2.88	30	4.99	140
H406779		0.5	6.27	28	1050	1.3	<2	2.12	<0.5	5	27	87	2.13	20	4.22	90
H406780		0.5	6.32	27	600	1.7	<2	3.08	<0.5	11	72	135	3.11	20	4.56	140
H406781		<0.5	6.34	34	300	2.0	<2	4.10	<0.5	13	81	141	4.46	20	4.48	170
H406782		<0.5	6.87	26	830	1.2	<2	2.54	<0.5	8	50	149	3.10	30	4.87	80
H406783		<0.5	6.12	43	380	3.0	<2	4.29	<0.5	16	81	116	4.98	20	4.46	100
H406784		<0.5	6.19	42	400	5.0	<2	4.31	<0.5	19	116	119	5.12	20	4.80	90
H406785		0.5	6.01	47	320	2.2	<2	4.57	<0.5	17	90	160	4.93	20	4.77	90
H406786		<0.5	6.26	34	780	2.7	2	4.39	<0.5	18	99	208	4.99	20	4.43	100
H406787		<0.5	6.21	37	390	2.6	<2	4.38	<0.5	19	104	150	4.96	20	4.86	110
H406788		<0.5	6.98	28	400	2.2	<2	3.32	<0.5	11	72	102	4.43	20	4.44	130
H406789		<0.5	6.63	19	400	2.2	<2	4.09	<0.5	10	91	159	4.48	20	4.64	210
H406790		<0.5	6.71	27	740	1.3	<2	2.39	<0.5	8	49	115	3.30	20	4.24	100
H406791		<0.5	6.89	23	880	1.4	<2	2.56	<0.5	9	77	164	3.32	20	4.65	110

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Finalized Date: 31-MAR-2014
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Project: MU

CERTIFICATE OF ANALYSIS VO14042596

Sample Description	Method / Analyte / Units / LOR	ME-ICP61 Mg % 0.01	ME-ICP61 Mn ppm 5	ME-ICP61 Mo ppm 1	ME-ICP61 Na % 0.01	ME-ICP61 Ni ppm 1	ME-ICP61 P ppm 10	ME-ICP61 Pb ppm 2	ME-ICP61 S % 0.01	ME-ICP61 Sb ppm 5	ME-ICP61 Sc ppm 1	ME-ICP61 Sr ppm 1	ME-ICP61 Th ppm 20	ME-ICP61 Ti % 0.01	ME-ICP61 Tl ppm 10	ME-ICP61 U ppm 10
H406752		0.87	1250	307	0.17	15	2340	224	2.26	12	4	2250	60	0.32	<10	<10
H406753		0.68	1430	75	0.18	16	2090	244	2.38	10	4	1090	40	0.32	<10	<10
H406754		1.08	1220	47	0.14	23	2380	215	2.11	8	6	1460	50	0.31	<10	<10
H406755		1.11	1150	80	0.18	27	3060	347	2.40	8	5	1920	70	0.27	<10	<10
H406756		1.06	977	42	0.20	25	3200	404	2.00	9	4	2220	100	0.23	<10	<10
H406757		1.11	1360	61	0.25	20	3400	317	2.32	8	4	1980	40	0.27	<10	<10
H406758		1.15	1270	33	0.20	21	3480	420	2.32	5	4	2320	50	0.30	<10	<10
H406759		0.74	723	154	0.24	9	1390	387	1.01	9	3	1480	40	0.12	<10	<10
H406760		0.78	816	140	0.26	12	1790	354	1.39	9	3	1850	70	0.16	<10	<10
H406761		1.01	1120	45	0.23	17	2540	284	2.13	12	3	5670	60	0.24	<10	<10
H406762		1.09	1130	34	0.29	17	2660	315	2.18	11	4	>10000	100	0.23	<10	<10
H406763		1.17	1180	79	0.20	22	2370	403	2.54	10	5	>10000	130	0.24	<10	<10
H406764		1.02	1080	52	0.26	17	2060	207	2.05	8	6	3240	40	0.26	<10	<10
H406765		0.89	1040	13	0.24	16	2330	262	2.01	7	5	1990	40	0.24	<10	<10
H406766		0.92	1090	16	0.30	18	1990	136	2.11	14	5	1880	30	0.22	<10	<10
H406767		0.81	1100	12	0.27	16	2490	239	2.09	7	4	2540	50	0.23	<10	<10
H406768		0.90	1000	20	0.18	15	2570	300	2.14	11	5	1650	70	0.25	<10	<10
H406769		0.78	1150	25	0.28	14	3120	275	2.08	11	3	2760	50	0.30	<10	<10
H406770		0.72	1000	15	0.26	13	2220	237	1.96	<5	3	3190	40	0.26	<10	<10
H406771		2.43	1900	58	0.11	32	3590	898	1.59	<5	14	3180	110	0.25	<10	<10
H406772		0.69	943	21	0.23	14	2350	179	1.93	<5	4	1680	30	0.27	<10	<10
H406773		1.04	1115	10	0.19	26	2940	250	2.08	5	5	3510	80	0.28	<10	<10
H406774		1.95	1535	38	0.24	31	1780	217	2.75	<5	12	8590	70	0.28	<10	<10
H406775		0.54	321	<1	0.02	4	190	<2	0.21	<5	1	413	<20	0.02	<10	<10
H406776		1.74	450	<1	3.41	74	950	52	2.99	<5	5	311	<20	0.53	<10	<10
H406777		1.39	1235	59	0.21	20	2790	469	2.01	<5	7	7540	60	0.28	<10	<10
H406778		1.21	1235	9	0.24	21	2100	153	1.93	<5	6	3470	40	0.27	<10	<10
H406779		0.68	944	36	0.28	9	1300	195	1.56	5	2	2680	30	0.27	<10	<10
H406780		1.28	1170	14	0.25	29	1930	185	1.93	<5	6	2300	50	0.26	<10	<10
H406781		1.70	1515	70	0.21	38	2250	152	2.83	<5	7	2310	50	0.36	<10	<10
H406782		0.94	1065	37	0.27	21	1040	57	2.14	<5	5	1840	40	0.32	<10	<10
H406783		2.33	1240	37	0.24	34	2750	44	2.85	6	14	2810	40	0.39	10	<10
H406784		2.51	1160	29	0.20	43	2800	42	2.79	<5	14	2680	40	0.40	<10	<10
H406785		2.41	1385	6	0.20	36	2350	51	2.91	5	15	2680	40	0.37	<10	<10
H406786		2.44	1315	27	0.21	39	2810	47	2.52	<5	15	2640	40	0.40	<10	<10
H406787		2.25	1275	6	0.17	36	2350	48	2.70	<5	14	2630	40	0.39	10	<10
H406788		1.27	1385	9	0.27	28	1500	56	2.90	5	4	2010	40	0.38	<10	<10
H406789		1.55	1625	26	0.25	38	2550	101	2.56	8	7	2790	50	0.37	<10	<10
H406790		0.90	980	2	0.26	20	1370	75	2.31	<5	5	1510	40	0.32	<10	<10
H406791		1.09	1060	39	0.27	29	1120	64	2.11	<5	5	1640	40	0.32	<10	<10

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KIRKLAND LAKE ON P2N 3L1

Finalized Date: 31-MAR-2014
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CERTIFICATE OF ANALYSIS VO14042596

Sample Description	Method Analyte Units LOR	ME-ICP61 V ppm 1	ME-ICP61 W ppm 10	ME-ICP61 Zn ppm 2
H406752		129	50	147
H406753		114	60	149
H406754		193	50	126
H406755		96	60	184
H406756		89	50	140
H406757		128	60	267
H406758		120	60	352
H406759		59	30	190
H406760		67	40	206
H406761		93	40	208
H406762		105	50	221
H406763		115	50	222
H406764		127	50	186
H406765		107	50	173
H406766		91	50	158
H406767		90	50	155
H406768		107	70	221
H406769		102	80	210
H406770		80	70	182
H406771		222	60	292
H406772		96	70	197
H406773		141	70	176
H406774		284	60	193
H406775		7	<10	11
H406776		68	<10	101
H406777		175	60	319
H406778		176	70	204
H406779		116	70	273
H406780		213	60	237
H406781		330	60	167
H406782		218	50	72
H406783		463	80	116
H406784		523	80	132
H406785		439	70	110
H406786		632	70	135
H406787		431	70	117
H406788		346	60	67
H406789		393	50	117
H406790		248	50	105
H406791		271	50	125

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CERTIFICATE OF ANALYSIS VO14042596

Sample Description	Method / Analyte / Units / LOR	ME-ICP61 Ag ppm 0.5	ME-ICP61 Al % 0.01	ME-ICP61 As ppm 5	ME-ICP61 Ba ppm 10	ME-ICP61 Be ppm 0.5	ME-ICP61 Bi ppm 2	ME-ICP61 Ca % 0.01	ME-ICP61 Cd ppm 0.5	ME-ICP61 Co ppm 1	ME-ICP61 Cr ppm 1	ME-ICP61 Cu ppm 1	ME-ICP61 Fe % 0.01	ME-ICP61 Ga ppm 10	ME-ICP61 K % 0.01	ME-ICP61 La ppm 10
H406792		<0.5	6.47	26	350	2.1	<2	3.28	<0.5	11	105	207	4.37	20	4.67	150
H406793		<0.5	6.22	20	460	1.7	<2	3.37	<0.5	8	59	134	3.66	20	4.54	180
H406794		<0.5	6.83	13	1020	9.4	<2	2.26	<0.5	6	35	91	2.44	20	5.10	80
H406795		<0.5	6.57	22	660	1.2	<2	2.78	<0.5	8	52	203	3.31	20	4.49	90
H406796		<0.5	6.27	26	370	1.7	<2	3.42	<0.5	11	73	211	3.99	20	4.37	100
H406797		<0.5	6.16	25	400	1.6	<2	3.77	<0.5	12	63	280	3.97	20	4.46	120
H406798		<0.5	6.51	22	360	1.8	<2	3.57	<0.5	12	60	165	4.12	20	4.91	120
H406799		<0.5	6.27	24	300	2.2	<2	4.17	<0.5	12	65	207	4.23	20	4.75	160
H406800		<0.5	0.40	6	80	<0.5	<2	33.1	<0.5	<1	4	3	0.39	<10	0.24	10
H406801		<0.5	7.75	<5	140	3.6	<2	2.45	<0.5	19	71	40	3.25	20	4.06	10
H406802		<0.5	6.39	26	790	1.8	<2	3.17	<0.5	7	34	172	2.78	30	4.93	220
H406803		0.9	6.51	21	450	1.7	4	3.86	<0.5	12	41	223	3.89	30	4.37	250
H406804		0.9	6.75	24	1620	2.7	<2	4.21	<0.5	12	43	142	4.49	30	4.75	260
H406805		<0.5	6.81	24	1450	5.4	<2	4.60	<0.5	19	98	79	4.55	30	3.02	60
H406806		<0.5	6.78	25	2240	5.0	<2	4.59	<0.5	18	98	83	4.56	20	3.01	60
H406807		<0.5	6.93	15	2020	3.6	<2	4.98	<0.5	16	99	118	4.29	20	2.75	50
H406808		<0.5	6.96	16	1980	3.7	<2	4.78	<0.5	17	103	248	4.18	20	2.66	60
H406809		<0.5	7.29	5	2120	5.1	<2	4.64	<0.5	14	111	234	4.41	20	3.01	40
H406810		<0.5	6.75	5	2520	4.9	<2	4.42	<0.5	15	99	62	4.17	20	3.44	30
H406811		<0.5	6.96	11	1840	5.2	<2	4.50	<0.5	17	105	75	4.25	20	3.25	40
H406812		<0.5	6.60	28	1600	7.0	<2	4.88	<0.5	18	96	32	4.23	20	3.09	40
H406813		<0.5	6.95	27	1610	5.6	<2	4.39	<0.5	17	112	49	4.35	20	2.97	40

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CERTIFICATE OF ANALYSIS VO14042596

Sample Description	Method	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	Analyte	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th	Ti	Tl	U
	Units	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOR	0.01	5	1	0.01	1	10	2	0.01	5	1	1	20	0.01	10	10
H406792		1.53	1410	55	0.22	42	1810	74	2.70	5	13	2180	40	0.37	<10	<10
H406793		1.28	1250	63	0.24	25	2140	85	2.29	7	6	2220	40	0.33	10	<10
H406794		0.88	966	12	0.22	14	950	65	1.54	5	3	1590	30	0.29	<10	<10
H406795		1.08	1080	20	0.36	23	1520	62	2.29	<5	5	2230	30	0.32	<10	<10
H406796		1.63	1200	32	0.31	29	1970	54	2.50	<5	9	2650	40	0.34	<10	<10
H406797		1.59	1300	37	0.28	23	2280	114	2.33	<5	7	2510	40	0.33	<10	<10
H406798		1.41	1260	21	0.29	25	1980	62	2.92	6	7	1990	40	0.33	<10	<10
H406799		1.68	1390	29	0.20	28	2470	94	2.67	<5	9	2840	50	0.35	10	<10
H406800		0.44	312	<1	0.02	<1	210	<2	0.16	<5	1	408	<20	0.02	<10	<10
H406801		1.93	480	<1	3.10	79	1030	25	0.01	<5	6	321	<20	0.57	<10	<10
H406802		0.99	1145	21	0.23	18	2660	130	1.75	<5	4	2170	70	0.28	<10	<10
H406803		1.33	1465	48	0.24	24	3050	292	2.48	8	5	2880	70	0.34	<10	<10
H406804		1.46	1565	57	0.46	22	3270	226	2.97	13	6	3220	60	0.39	<10	<10
H406805		2.30	1145	4	3.63	37	1410	24	1.54	11	16	3220	20	0.33	10	<10
H406806		2.30	1130	3	3.59	37	1400	23	1.52	8	16	3230	20	0.32	<10	<10
H406807		2.39	1140	<1	3.87	36	1550	17	0.88	9	16	3010	20	0.31	<10	<10
H406808		2.27	1095	2	3.83	38	1620	17	1.02	9	16	2750	20	0.30	<10	<10
H406809		2.35	1045	<1	3.33	35	1340	18	0.44	7	17	2130	20	0.27	10	<10
H406810		2.30	940	1	2.76	36	1290	17	0.56	7	15	1915	<20	0.24	<10	<10
H406811		2.28	934	1	2.88	37	1310	24	0.76	6	16	1720	<20	0.25	<10	<10
H406812		2.45	991	3	2.47	37	1200	32	1.44	10	15	1700	<20	0.23	<10	<10
H406813		2.35	988	2	2.71	37	1270	31	1.18	8	16	1580	<20	0.24	<10	<10

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

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **OSISKO MINING LTD.**
P.O. BOX 996
KIRKLAND LAKE ON P2N 3L1

Finalized Date: 31-MAR-2014
Account: OSIKLI

Project: MU

CERTIFICATE OF ANALYSIS VO14042596

Sample Description	Method Analyte Units LOR	ME-ICP61 V ppm 1	ME-ICP61 W ppm 10	ME-ICP61 Zn ppm 2
H406792		442	50	114
H406793		292	50	93
H406794		175	50	77
H406795		224	50	65
H406796		352	60	89
H406797		312	60	183
H406798		249	60	56
H406799		312	60	90
H406800		8	<10	10
H406801		72	<10	44
H406802		182	50	37
H406803		275	60	55
H406804		255	60	105
H406805		351	50	89
H406806		343	50	90
H406807		337	40	87
H406808		334	40	84
H406809		310	30	115
H406810		340	20	107
H406811		345	20	90
H406812		218	10	75
H406813		170	10	76

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CERTIFICATE OF ANALYSIS VO14042596

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Val d'Or located at 1324 Rue Turcotte, Val d'Or, QC, Canada.
FND-02

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
ME-ICP61