Osisko Infill Drilling Intersects High Grade in Lynx

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TORONTO, April 29, 2020 - Osisko Mining Inc. (OSK:TSX. "Osisko" or the "Corporation") is pleased to provide new drilling results from the ongoing definition and expansion drill program at its 100% owned Windfall gold project located in the Abitibi greenstone belt, Urban Township, Eeyou Istchee James Bay, Qu?bec.

Operations remain temporarily suspended in respect of the Government of Qu?bec’s closure of all non-essential business in effort to contain COVID-19. When drilling resumes, it will remain focused on the Lynx deposit, the main mineralized zones, and down plunge exploration in the central areas of the mineralized system.

Significant new analytical results from the definition drilling program on Lynx and Triple Lynx are presented below and include 44 intercepts in 16 drill holes, 2 extensions and 13 wedges.

Of note is drill hole OSK-W-20-2217-W2 which returned 35.3 g/t Au over 2.7 metres, confirming the up-plunge extension of the Triple Lynx zone 120 metres from nearest wireframe (*see Osisko news release dated February 19, 2020*). Also, drill hole OSK-W-19-2170 returned 40.2 g/t Au over 3.5 metres confirming high grade in the down plunge area of Triple Lynx.

Selected high-grade intercepts from new results include: 104 g/t Au over 2.0 metres in WST-20-0323; 76.5 g/t Au over 2.6 metres in OSK-W-18-1747-W1; 41.2 g/t Au over 4.2 metres in WST-20-0386; and 73.6 g/t Au over 2.3 metres in OSK-W-19-1193-W2. Maps showing hole locations and full analytical results are available at www.osiskomining.com.

Infill Drilling

Hole No.	From (m)	To (m)	Interval (m)	Au (g/t) uncut	Au (g/t) cut to 100 g/t	Zone	Corridor
OSK-W-17-1000	573.0	577.3	4.3	8.92		Lynx_301	Lynx
including	573.0	574.0	1.0	17.1			
OSK-W-18-1639	754.0	757.0	3.0	8.80		Lynx_336	Lynx
including	754.0	755.0	1.0	15.6			
OSK-W-18-1741-W1	916.1	918.7	2.6	76.5	50.0	Lynx_329	Lynx
including	916.1	917.0	0.9	177	100		
	926.0	928.0	2.0	4.90		Lynx 4	Lynx
OSK-W-19-1104-W4	470.6	473.0	2.4	3.42		Lynx_359	Lynx
including	471.3	471.6	0.3	25.6			
	575.0	577.7	2.7	3.72		Lynx_321	Lynx
including	576.5	576.9	0.4	17.6			
OSK-W-19-1193-W2	928.2	930.5	2.3	73.6	30.6	Lynx_314	Lynx
including	928.6	929.2	0.6	265	100		
OSK-W-19-1731-W2	591.0	593.0	2.0	7.70		Lynx_322	Lynx
including	591.0	592.0	1.0	14.5			
OSK-W-19-2059-W1	833.9	836.3	2.4	11.1		Lynx_313	Lynx
including	834.8	835.7	0.9	27.3			
OSK-W-19-2067-W4	1028.0	1030.5	2.5	3.25		Lynx_368	Lynx
OSK-W-19-2139-W2	887.4	894.0	6.6	8.34		Lynx_363	Lynx

OSK-W-19-2170	923.1	926.6	3.5	40.2		Triple Lynx	Triple Lynx
including	923.7	924.7	1.0	98.0			
OSK-W-19-2197	759.8	762.0	2.2	4.04		Lynx	Lynx
OSK-W-20-1272-W6	898.0	900.0	2.0	10.2		Lynx_364	Triple Lynx
including	899.0	899.4	0.4	45.2			
OSK-W-20-1741-W2	860.0	862.0	2.0	3.20		Lynx_347	Lynx
	899.0	901.0	2.0	4.29		Lynx_313	Lynx
including	899.4	900.0	0.6	13.6			
OSK-W-20-2059-W3	701.3	704.0	2.7	11.2		Lynx_315	Lynx
including	703.1	704.0	0.9	29.3			
OSK-W-20-2217-W1	877.0	879.0	2.0	3.29		Triple Lynx	Triple Lynx
including	877.0	877.4	0.4	9.71			
OSK-W-20-2217-W2	755.2	757.9	2.7	35.3	17.0	Triple Lynx	Triple Lynx
including	756.3	756.6	0.3	265	100		
OSK-W-20-2243-W1	814.0	816.0	2.0	5.36		Lynx_363	Lynx
WST-19-0328	118.0	120.0	2.0	25.9		Lynx_304	Lynx
including	118.5	119.0	0.5	99.1			
WST-20-0260	8.8	10.9	2.1	10.1		Lynx_310	Lynx
including	8.8	9.4	0.6	26.9			
	51.0	53.0	2.0	6.29		Lynx_304	Lynx
including	51.7	52.1	0.4	31.0			
WST-20-0261	55.0	57.0	2.0	8.28		Lynx_304	Lynx
including	55.7	56.2	0.5	32.9			
WST-20-0308	52.6	54.7	2.1	4.56		Lynx_311	Lynx
including	53.6	54.1	0.5	16.9			
	81.1	83.4	2.3	3.48		Lynx_320	Lynx
	95.0	98.3	3.3	4.09		Lynx_319	Lynx
WST-20-0316	58.7	61.1	2.4	19.7		Lynx_311	Lynx
WST-20-0319	66.8	69.8	3.0	24.3	18.8	Lynx_323	Lynx
including	69.4	69.8	0.4	141	100		
	77.6	80.0	2.4	3.95		Lynx_308	Lynx
	86.0	88.0	2.0	8.09		Lynx_320	Lynx
including	86.0	86.5	0.5	31.4			
	94.5	97.1	2.6	22.6		Lynx_304	Lynx
including	94.5	94.9	0.4	94.4			
WST-20-0321	50.2	53.0	2.8	4.32		Lynx_303	Lynx
including	50.2	51.0	0.8	15.1			
	65.4	67.8	2.4	3.55		Lynx_323	Lynx
WST-20-0323	68.5	70.5	2.0	104	35.9	Lynx_323	Lynx
including	69.1	69.8	0.7	296	100		
WST-20-0367A	110.0	112.0	2.0	4.31		Lynx_323	Lynx
including	110.0	110.6	0.6	14.3			
	126.7	128.8	2.1	4.97		Lynx_359	Lynx
including	127.6	128.4	0.8	12.9			
WST-20-0377	125.1	127.2	2.1	4.56		Lynx_304	Lynx
WST-20-0386	134.1	138.3	4.2	41.2	22.4	Lynx_304	Lynx
including	138.0	138.3	0.3	363	100		
WST-20-0413	77.0	79.0	2.0	3.44		Lynx_323	Lynx
	85.8	88.0	2.2	24.3		Lynx_308	Lynx
including	85.8	86.9	1.1	48.3			
	99.5	101.7	2.2	18.9		Lynx_304	Lynx
including	101.2	101.7	0.5	69.6			

WST-20-0414	59.7	62.0	2.3	4.43	Lynx_311	Lynx
including	61.1	61.4	0.3	24.9		
WST-20-0426	141.0	143.4	2.4	9.12	Lynx_304	Lynx
including	142.2	142.8	0.6	28.8		

Notes: True widths are estimated at 55 – 80% of the reported core length interval. See *"Quality Control and Reporting Protocols"* below.

Drill hole location

Hole Number	Azimuth (?)	Dip (?)	Length (m)	UTM E	UTM N	Elevation	Section
OSK-W-17-1000	142	-50	786	453408	5435462	401	3800
OSK-W-18-1639	142	-53	1164	453266	5435397	405	3625
OSK-W-18-1741-W1	144	-48	1083	453328	5435466	406	3725
OSK-W-19-1104-W4	142	-50	933	453383	5435455	402	3775
OSK-W-19-1193-W2	141	-59	1095	453807	5435721	400	4275
OSK-W-19-1731-W2	139	-51	996	453383	5435518	409	3800
OSK-W-19-2059-W1	131	-52	1041	453446	5435477	400	3825
OSK-W-19-2067-W4	123	-53	1203	453241	5435697	416	3750
OSK-W-19-2139-W2	115	-52	1203	452980	5435549	420	3450
OSK-W-19-2170	128	-59	1203	453425	5435657	413	3900
OSK-W-19-2197	121	-48	1059	453087	5435527	418	3550
OSK-W-20-1272-W6	127	-60	1035	453246	5435535	412	3675
OSK-W-20-1741-W2	144	-48	972	453328	5435466	406	3725
OSK-W-20-2059-W3	131	-52	1029	453446	5435477	400	3825
OSK-W-20-2217-W1	134	-48	1044	452943	5435566	419	3425
OSK-W-20-2217-W2	134	-48	893	452943	5435566	419	3425
OSK-W-20-2243-W1	122	-54	960	453087	5435527	418	3550
WST-19-0328	139	39	141	453217	5435115	225	3450
WST-20-0260	169	34	87	453298	5435067	206	3500
WST-20-0261	169	25	73	453298	5435066	205	3500
WST-20-0308	172	-13	160	453291	5435139	163	3525
WST-20-0316	133	-19	124	453292	5435139	163	3525
WST-20-0319	134	-3	118	453292	5435139	163	3525
WST-20-0321	127	-22	133	453292	5435139	163	3525
WST-20-0323	115	6	151	453292	5435140	163	3525
WST-20-0367A	163	-34	166	453450	5435264	115	3725
WST-20-0377	161	-42	175	453493	5435286	116	3775
WST-20-0386	163	-47	178	453493	5435286	116	3775
WST-20-0413	119	-21	139	453292	5435140	163	3525
WST-20-0414	136	-14	121	453292	5435139	163	3525
WST-20-0426	142	-47	172	453493	5435287	116	3775

Lynx Zone
Mineralization in the Lynx zone is typically characterized by trace to 15% disseminated, clustered or stringer pyrite (locally up to 70%), local visible gold, trace to 3% sphalerite, chalcopyrite, and galena, local ptygmatic pyrite-tourmaline or tourmaline veinlets, quartz-carbonate veins (locally crustiform), smoky quartz veins and veinlets, and local chlorite-calcite or quartz-carbonate chlorite fracture filling. Alteration consists of weak to strong sericite, weak to strong silica with areas of local pervasive silica flooding, weak to moderate chlorite and carbonate, and locally weak to strong fuchsite. Mineralization is hosted in or at the contacts of felsic porphyritic or fragmental intrusions with rhyolites, andesites (locally bleached), or gabbros.

Triple Lynx Zone
Mineralization in the Triple Lynx zone is typically characterized by trace to 30% disseminated, clustered or stringer pyrite, local visible gold, trace sphalerite, chalcopyrite, and galena, local quartz-tourmaline veins (up

to 20%), local ptygmatic tourmaline veins, and local smoky quartz and quartz-carbonate veins. Alteration consists of weak to strong sericite, weak to strong silica with areas of local pervasive silica flooding, weak to moderate chlorite and carbonate, and locally weak to strong fuchsite. Mineralization is hosted in or at the contacts of felsic porphyritic dikes with rhyolites (locally bleached) or gabbros.

Qualified Person

The scientific and technical content of this news release has been reviewed, prepared and approved by Mr. Louis Grenier, M.Sc.A., P.Geo. (OGQ 800), Project Manager of Osisko's Windfall Lake gold project, who is a "qualified person" as defined by National Instrument 43-101 – Standards of Disclosure for Mineral Projects ("NI 43-101").

Quality Control and Reporting Protocols

True width determination is estimated at 55-80% of the reported core length interval for the zone. Assays are uncut except where indicated. Intercepts occur within geological confines of major zones but have not been correlated to individual vein domains at this time. Reported intervals include minimum weighted averages of 3.0 g/t Au diluted over core lengths of at least 2.0 metres. All NQ core assays reported were obtained by either 1-kilogram screen fire assay or standard 50-gram fire-assaying-AA finish or gravimetric finish at (i) ALS Laboratories in Val d'Or, Qu?bec, Thunder Bay, Ontario, Sudbury, Ontario or Vancouver, British Colombia, or (ii) Bureau Veritas in Timmins, Ontario. The 1-kilogram screen assay method is selected by the geologist when samples contain coarse gold or present a higher percentage of pyrite than surrounding intervals. Selected samples are also analyzed for multi-elements, including silver, using an Aqua Regia-ICP-AES method at ALS Laboratories. Drill program design, Quality Assurance/Quality Control ("QA/QC") and interpretation of results is performed by qualified persons employing a QA/QC program consistent with NI 43-101 and industry best practices. Standards and blanks are included with every 20 samples for QA/QC purposes by the Corporation as well as the lab. Approximately 5% of sample pulps are sent to secondary laboratories for check assay.

About the Windfall Gold Deposit

The Windfall gold deposit is located between Val-d'Or and Chibougamau in Eeyou Istchee James Bay, Qu?bec, Canada. The mineral resource defined by Osisko, as disclosed in the news release dated February 19, 2020 and supported by the technical report entitled “An updated mineral resource estimate for the Windfall Lake Project, Located in the Abitibi Greenstone Belt, Urban Township, Eeyou Istchee James Bay, Qu?bec, Canada” and dated April 3, 2020 (with an effective date of January 3, 2020), and assuming a cut-off grade of 3.5 g/t, comprises 4,127,000 tonnes at 9.1 g/t Au (1,206,000 ounces) in the indicated mineral resource category and 14,532,000 tonnes at 8.40 g/t Au (3,938,000 ounces) in the inferred mineral resource category. The key assumptions, parameters and methods used to estimate the mineral resource estimate disclosed in the February 19,2020 news release are further described in the full technical report prepared by Micon International Limited ("Micon") and BBA Inc ("BBA"), in accordance with NI 43-101 available on SEDAR (www.sedar.com) under the Corporation's issuer profile. The Windfall gold deposit is currently one of the highest-grade resource-stage gold projects in Canada and has world-class scale. Mineralization occurs in three principal zones: Lynx, Main Zone, and Underdog. Mineralization is generally comprised of sub-vertical zones following intrusive porphyry contacts plunging to the northeast. The deposit is well defined from surface to a depth of 1,200 metres and remains open along strike and at depth. Mineralization has been identified 30 metres from surface in some areas and as deep as 2,000 metres in others, with significant potential to extend mineralization down-plunge and at depth.

About Osisko Mining Inc.

Osisko is a mineral exploration company focused on the acquisition, exploration, and development of precious metal resource properties in Canada. Osisko holds a 100% interest in the high-grade Windfall gold deposit located between Val-d'Or and Chibougamau in Qu?bec and holds a 100% undivided interest in a large area of claims in the surrounding Urban Barry area and nearby Qu?villon area (over 2,700 square kilometres).

Cautionary Note Regarding Forward-Looking Information

This news release contains "forward-looking information" within the meaning of the applicable Canadian securities legislation that is based on expectations, estimates, projections and interpretations as at the date of this news release. Any statement that involves predictions, expectations, interpretations, beliefs, plans, projections, objectives, assumptions, future events or performance (often, but not always, using phrases such as "expects", or "does not expect", "is expected", "interpreted", "management's view", "anticipates" or "does not anticipate", "plans", "budget", "scheduled", "forecasts", "estimates", "potential", "feasibility", "believes" or "intends" or variations of such words and phrases or stating that certain actions, events or results "may" or "could", "would", "might" or "will" be taken to occur or be achieved) are not statements of

historical fact and may be forward-looking information and are intended to identify forward-looking information. This news release contains the forward-looking information pertaining to, among other things: the Windfall gold deposit being one of the highest-grade resource-stage gold projects in Canada and having world-class scale; the key assumptions, parameters and methods used to estimate the mineral resource estimate; the prospects, if any, of the Windfall gold deposit; the timing and ability of Osisko, if at all, to publish a feasibility study for the Windfall gold deposit; the projected capital expenditures of mining activities at the Windfall gold deposit; upgrading an inferred mineral resource to a measured mineral resource or indicated mineral resource category; future drilling at the Windfall gold deposit; the deposit remaining open along strike to the northeast and at depth; significant high-grade zones (Lynx 4, Triple Lynx) remaining open down plunge; the plunge potential of the Lynx and Underdog zones; the significance of historic exploration activities and results. Such factors include, among others, risks relating to the ability of exploration activities (including drill results) to accurately predict mineralization; errors in management's geological modelling; the ability of Osisko to complete further exploration activities, including drilling; property and royalty interests in the Windfall gold deposit; the ability of the Corporation to obtain required approvals; the results of exploration activities; risks relating to mining activities; the global economic climate; metal prices; dilution; environmental risks; and community and non-governmental actions. Although the forward-looking information contained in this news release is based upon what management believes, or believed at the time, to be reasonable assumptions, Osisko cannot assure shareholders and prospective purchasers of securities of the Corporation that actual results will be consistent with such forward-looking information, as there may be other factors that cause results not to be as anticipated, estimated or intended, and neither Osisko nor any other person assumes responsibility for the accuracy and completeness of any such forward-looking information. Osisko does not undertake, and assumes no obligation, to update or revise any such forward-looking statements or forward-looking information contained herein to reflect new events or circumstances, except as may be required by law.

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