

# **Osisko Mining Inc.**

Nearly a Doubling of Ounces at Windfall, but at the cost of Grade

OSK-TSX: \$2.70 Speculative Buy \$4.50 Target↓ (prev \$5.50)

Event: Osisko Mining Inc. reported its first resources estimate for the 100%-owned Windfall gold deposit in Québec (Exhibit 1). The update sees ounces contained in the global resources (Indicated and Inferred) increase by 79% to 2.9Moz at 6.9g/t (compared with 1.6Moz at 8g/t, previously). Importantly, the update also saw ounces contained in the higher-confidence Indicated category drop by 20% to 601koz, accompanied by a 6.8% drop in grade to 7.85g/t. Meanwhile, contained ounces in the Inferred category more than doubled to 2.3Moz, while grade slipped to 6.7g/t from 7.6g/t. While in general the resource update is just shy of our expectation of ~3Moz at 8g/t, the drop in grade is meaningful, especially in an underground mining scenario. The drop in Indicated resources all highlights the significant work required to upgrade existing inferred resources into Indicated, as Windfall has already been subject to more than 1M metres of drilling. OSK notes that subsequent infill drilling has returned higher average grades, and will remain a focus of ongoing drilling.

OSK notes that the deposit **remains open along strike to the northeast and at depth** (Exhibits 2 & 3). Additionally, the new estimate excludes results from 131 infill and extension holes (~40,000m) completed mostly on the Lynx and Underdog zones since March 5, 2018. The Company also notes that ongoing infill drilling to convert Inferred resource into Indicated has produced higher average grades, and remains a focus of ongoing drilling as part of an 800,000m drill campaign aimed at expanding and exploring the deposit continues.

Resource Details: The updated Windfall resource estimate includes a re-evaluation of results from 1,453 drill holes (596,733m) completed by previous operators in the resource area since 1997, and another 812 holes (413,692m) completed by OSK between October 2015 and March 5, 2018 (on approximate 25m-x-25m grid for infill and larger grid for extension drilling). The new estimate also reflects geological re-modeling of the deposit as an intrusive-related system where mineralized zones are closely associated with sub-volcanic quartz-feldspar porphyries, with grade modeled on the basis of better-defined, higher-grade, vertical sub-domains rather than a broad mineralized domain to better capture the nature of the gold-bearing zones which follow the intrusive porphyry contacts. A total of 124 wireframes (with a min. true thickness of 2.0m) were constructed for the estimate. The estimate only considers mineralized zones potentially minable by underground methods at a lower cutoff grade of 3.0g/t Au.

Preliminary Economic Assessment in early Q318: The updated resource, and recently updated Inferred resource at the Osborne-Bell deposit to the west (2.6M tonnes at 6.13g/t, for 510koz), will form the basis for a PEA that will contemplate a blended mining scenario with processing at a central Lebel-sur-Quévillon mill. The PEA is expected in early Q318.

Valuation: We maintain our Speculative Buy rating while lowering our price target to \$4.50/shr from \$5.50/shr. We have incorporated the updated resource estimate into our model with the effect of lowering our assumed head grade to 7.0g/t (from 8.0g/t). We now employ Windfall/Osborne Indicated & Inferred resources (3Moz) at a 3.5g/t cutoff (with the weighted average grade diluted by 5%) as our mineable resource. We include full conversion of tonnage in all categories to reflect exploration upside at both projects. We have otherwise left our operating model unchanged in anticipation of the release of the PEA in early Q318.

Projected Return: 66.7% Discount Rate: 5.0% & EV/oz

Market Data (C\$, unless otherwise stated)				
Market Capitalization (\$M)	561.4			
Net Debt (\$M)	na			
Cash & Equivalents (\$M)	92.8			
Debt (\$M)	0.0			
Enterprise Value (\$M)	468.6			
Basic Shares O/S (M)	207.9			
Fully Diluted Shares O/S (M)	247.0			
Avg. Daily Volume (k)	581.8			
52-Week Range	\$2.34 - \$5.24			
Company Wide Peccurcos				

Company wide	Resources		
Category	Mtonnes	Aug/t	<u>Au Moz</u>
Measured	22.80	1.20	0.88
Indicated	46.78	1.68	2.40
M&I	69.48	1.53	3.28
Inferred	24.67	3.74	3.73
Total (M&I,I)	91.56	2.21	6.51
EV/oz Total			\$72
Valuation			
		4 44	

	Discount	\$ (M)	\$/shr
Windfall Lake	5.0%	691	2.52
Marban/Garrison	In Situ	212	0.77
Unadjusted NAV		903	1.43
Corporate Adjustme	ents	(30)	(0.11)
Cash & Equivalents		93	0.34
Investments		59	0.21
Options & Warrants	i	126	0.46
Future Equity Financ	ce Proceeds	75	0.27
Adjusted NAV		1,225	4.47
P/Adjusted NAV			0.60x
Risks	Ev	ents/Ca	talysts
n 1 . n. 1			

Development Risk Drill Results - 2018
Permitting Risk PEA - June 2018
Financing Risk

Company Description

Osisko is an exploration and development company focused on precious metal resources in Canada. The company holds 100% of the high-grade Windfall Lake gold deposit and surrounding 82,400 hectare Urban Barry area claims located between Val-d'Or and Chibougamau, Quebec. Other assets include 100% of the Marban project located in the prolific Abitibi, Quebec gold mining district, and the Garrison property located in Larder Lake, Ontario.



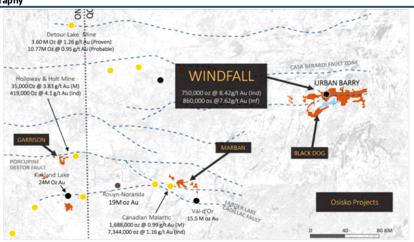
Source: Capital IQ



# Osisko Mining Inc. (TSX:OSK, \$2.70) - Data Sheet

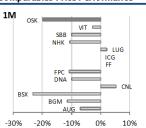
# **SPEC BUY | PT: \$4.50**

Key Project Description								
Name	Windfall Lake	NI 43-101 Resource Estimate						
Location	Quebec	Que bec Windfall Lake Gold Deposit						
Stage Resource Delineation/PEA		Category	Tonnes (M)	Gold (g/t)	Gold (Moz)			
Avg. Mineable Resource Au Grade	7.00	Indicated	2.38	7.85	0.60			
Initial Production	Q120	Inferred	<u>10.61</u>	<u>6.70</u>	2.28			
Avg. Ann. Au Production (oz) 116,600oz		Total	12.99	6.91	2.89			
Geography								

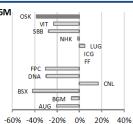


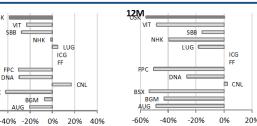
Price Target Sensitivity

Long-Term Gold Price (US\$/oz)										
		1,000	1,100	1,200	1,300	1,400	1,500	1,600	1,700	1,800
	1.0%	3.40	4.20	5.00	5.80	6.60	7.50	8.30	9.10	10.00
6	2.0%	3.10	3.80	4.50	5.20	5.90	6.70	7.40	8.10	8.90
8	3.0%	2.90	3.50	4.10	4.70	5.40	6.00	6.60	7.30	7.90
ŧ	4.0%	2.70	3.20	3.70	4.30	4.90	5.40	6.00	6.60	7.10
Discount Rate	5.0%	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50
룱	6.0%	2.30	2.80	3.20	3.70	4.10	4.60	5.00	5.50	5.90
š	7.0%	2.20	2.60	3.00	3.40	3.80	4.20	4.60	5.00	5.40
_	8.0%	2.10	2.50	2.80	3.20	3.60	3.90	4.30	4.70	5.00
	9.0%	2.00	2.40	2.70	3.00	3.40	3.70	4.00	4.30	4.70
Comp	arables Pric	e Perform	ance							



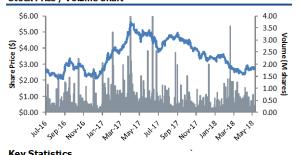
All items in Millions except per share items





Comparables	Ticker	Share	Mkt Cap.	EV M&	<b>I&amp;I</b> (Moz)	EV/oz
Lundin Gold Inc.	TSX:LUG	\$4.97	\$1,059.4	\$931.2	9.5	\$98
Nighthawk Gold Corp.	TSX:NHK	\$0.59	\$113.2	\$86.9	2.1	\$41
Continental Gold Inc.	TSX:CNL	\$3.67	\$473.4	\$699.8	9.0	\$78
Sabina Gold & Silver Corp.	TSX:SBB	\$1.62	\$420.6	\$334.8	7.4	\$45
Pure Gold Mining Inc.	TSXV:pGM	\$0.66	\$147.4	\$132.5	1.2	\$108
Dalradian Resources Inc.	TSX:DNA	\$1.01	\$362.6	\$235.7	4.4	\$54
First Mining Gold Corp.	TSX:FF	\$0.52	\$295.6	\$279.0	10.0	\$28
Victoria Gold Corp.	TSXV:VIT	\$0.35	\$276.7	\$251.8	4.4	\$57
Belo Sun Mining Corp	TSX:BSX	\$0.27	\$130.1	\$68.2	6.8	\$10
Auryn Resources Inc.	TSX:AUG	\$1.63	\$146.0	\$143.1	2.3	\$62
Nighthawk Gold Corp.	TSX:NHK	\$0.59	\$113.2	\$86.9	2.1	\$41
Falco Resources Ltd.	TSXV:FPC	\$0.67	\$126.7	\$106.1	5.6	\$19
Marathon Gold Corporation	TSX:MOZ	\$1.06	\$168.7	\$164.6	2.9	\$58
Midas Gold Corp.	TSX:MAX	\$1.15	\$215.4	\$229.5	6.6	\$35
Eastmain Resources Inc.	TSX:ER	\$0.26	\$48.8	\$44.2	1.7	\$27
Osisko Mining Inc.	TSX:OSK	\$2.15	\$561.4	\$468.6	5.2	\$90
Average						\$51
Source: Consensus data - CapitalIQ, Hist	torical Data - Company Fili	ngs, Forecasts/es	timates - Echelon We	alth Partners		

Recommendation			
Close Price			\$2.70
Target:			\$4.50
Return:			66.7%
Consensus	3 Mo. Ago	Current	Return
Rating:	Outperform 5 2 2	Outperform 5 2 2	
Target:	\$6.08	\$5.22	93%
Me dian:	\$6.00	\$5.25	94%
High:	\$7.00	\$7.00	159%
Low:	\$5.00	\$2.65	-2%
Consensus Distribution			11
Sector Outperform/Buy			10
Sector Perform/Hold			1
Sector UnderPerform/Sell			0
Stock Price / Volume Chart			



key Statistics				
Current Price (C\$)		\$2.70		
52-Week Range (C\$)	\$2.34 - \$5.24			
Avg. Vol. (3-Mo, k)		581.8		
Shares Outstanding (M)		207.9		
Shares Outstanding (diluted) (M)		247.0		
Cash		\$92.8		
Market Cap		\$561.4		
Net Debt	\$0.0			
Net Debt / Total Capital	\$0.0			
Enterprise Value	\$468.6			
Enterprise Value/oz		\$90		
FYE		De c 31		
CEO	Burz	ynski, John		
Employees	57			
Website	www.osiskomining.com			
Top Inst. Ownership	Shares	% Held		
M&G Investment Management Limited	18.5	8.9%		
Blackrock, Inc.	15.1	7.3%		

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Van Eck Associates Corporation	11.9	5.7%
Tocqueville Asset Management Lp	11.4	5.5%
J.P. Morgan Asset Management, Inc.	10.1	4.9%
Oppenheimerfunds, Inc.	3.2	1.5%
Sprott Asset Management, Lp	2.6	1.3%
Company Description		

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)	Date	Last Financing	Price	Value
3	29-Aug-17	Private Placement	\$4.20	\$30.0
	29-Aug-17	Bought Deal FT PP	\$6.76	\$50.0
_	27-Apr-17	FT Private Placement	\$7.15	\$5.0
•	28-Feb-17	FT Private Placement	\$5.52	\$30.1
	28-Fe b-17	Private Placement	\$3.40	\$52.1
	13-Dec-16	FT Private Placement	\$3.15	\$14.0
	27-Se p-16	Bought Deal PP	\$2.75	\$32.3



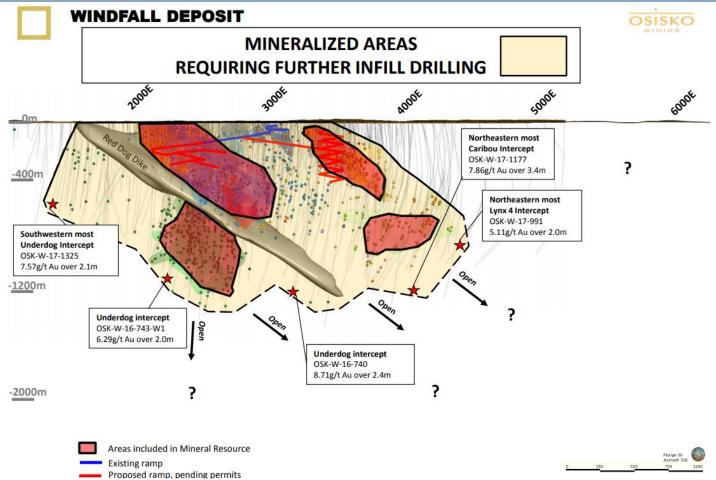
Exhibit 1 — Windfall Deposit NI 43-101 Resource Update (3g/t cutoff) & Sensitivities (May 15, 2018)

Category	Tonnes	Gold	Gold
Indicated	000	g/t	000oz
New	2,382	7.85	601
Old	2,762	8.42	748
% Diff.	-13.8%	-6.8%	-19.7%
Inferred			
New	10,605	6.70	2,284
Old	3,512	7.62	860
% Diff.	202.0%	-12.1%	165.6%
Global			
New	12,987	6.91	2,885
Old	6,274	7.97	1,608
% Diff.	107.0%	-13.3%	79.4%

Cutoff	Tonnes	Gold	Gold	Tonnes	Gold	Gold
g/t	000	g/t	OZ	000	g/t	oz
5.0	1,476	10.28	487	5,764	9.06	1,679
4.0	1,858	9.08	543	7,749	7.88	1,964
3.5	2,093	8.48	571	9,091	7.27	2,126
3.0	2,382	7.85	601	10,605	6.70	2,284
2.5	2,741	7.18	633	12,434	6.12	2,445

Source: Company Reports

Exhibit 2 — Windfall Main Deposit — Plenty of Room to Grow



Source: Osisko Mining Inc.



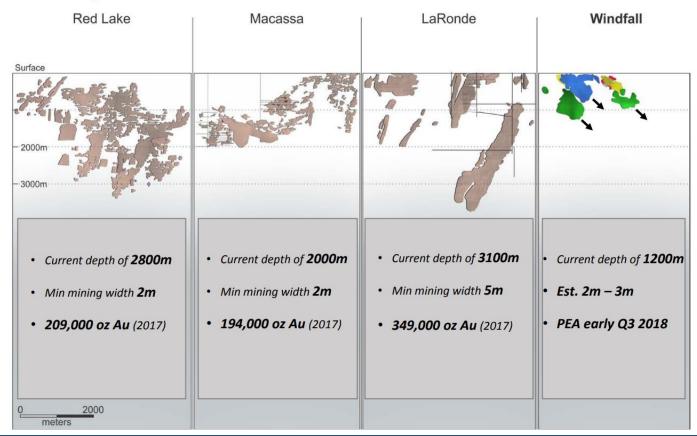
# Exhibit 3 — Windfall open at Depth



# Major Canadian Archean Gold Deposits - Vertical Extent



# Windfall Remains Open Down-Plunge Strong Potential to Grow



Source: Osisko Mining Inc.

# **Exhibit 4 — Valuation Summary**

	Discount	C\$ Million	C\$/Share		C\$/Share
Windfall Lake	5.0%	\$691	\$2.52	Project NAV	\$3.29
Marban/Garrison	In Situ	\$212	\$0.77	Target Multiple	1.00x
Project NAV		\$903	\$3.29	Unadjusted Valuation	\$3.29
Corporate Adjustments		(\$30)	(\$0.11)	Adjustments	\$1.18
Cash & Equivalents		\$93	\$0.34	Total Valuation	\$4.47
Investments		\$59	\$0.21		
Options & Warrants		\$126	\$0.46		
Future Equity Finance Proceeds		\$75	\$0.27		
Adjusted NAV		\$1,225	\$4.47	-	
Current Share Price			\$2.70	12-Month Target	\$4.50
P/Adjusted NAV			0.60x	Implied Return	67%

Source: Echelon Wealth Partners, Capital IQ, and Company Reports



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#### Company: Osisko Mining Inc. | OSK:TSX

I, Ryan Walker, hereby certify that the views expressed in this report accurately reflect my personal views about the subject securities or issuers. I also certify that I have not, am not, and will not receive, directly or indirectly, compensation in exchange for expressing the specific recommendations or views in this report.

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Does the Analyst or any member of the Analyst's household have a financial interest in the securities of the subject issuer? If Yes: 1) Is it a long or short position? No position; and, 2) What type of security is it? None	No
Does the Analyst or household member serve as a Director or Officer or Advisory Board Member of the issuer?	No
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Buy	The security represents attractive relative value and is expected to appreciate significantly from the current price over the next 12 month time horizon.
Speculative Buy	The security is considered a BUY but in the analyst's opinion possesses certain operational and/or financial risks that are higher than average.
Hold	The security represents fair value and no material appreciation is expected over the next 12-18 month time horizon.
Sell	The security represents poor value and is expected to depreciate over the next 12 month time horizon.
Under Review	While not a rating, this designates the existing rating and/or forecasts are subject to specific review usually due to a material event or share price move.
Tender	Echelon Wealth Partners recommends that investors tender to an existing public offer for the securities in the absence of a superior competing offer.
Dropped Coverage	Applies to former coverage names where a current analyst has dropped coverage. Echelon Wealth Partners will provide notice to investors whenever coverage of an issuer is dropped.

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Recommendation Hierarchy	Buy	Speculative Buy	Hold	Sell	<b>Under Review</b>	Restricted	Tender
Number of recommendations	57	53	13	1	4	2	1
% of Total (excluding Restricted)	45%	41%	10%	1%	3%		
Number of investment banking relationships	9	28	1	1	0	2	2
% of Total (excluding Restricted)	23%	72%	3%	3%	0%		

# PRICE CHART, RATING & PRICE TARGET HISTORY



Date	Target (C\$)	Rating
16 Jan 2017	\$4.25	Spec Buy
28 Feb 2017	\$4.55	Spec Buy
29 Mar 2017	\$5.50	Spec Buy
7 Apr 2017	\$5.50	Hold
25 Apr 2017	\$5.50	Spec Buy
15 May 2018	\$4.50	Spec Buy

Data sourced from: Capital IQ



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