

Ticker: OSI CN4Q20 Cash: C\$16mProject: Twin HillsMarket cap: C\$137mPrice: C\$1.31/shCountry: NamibiaRECOMMEND. (unc): BUYTARGET (up): C\$2.75/shRISK RATING: HIGH

Today's PEA, authored by African leaders Lycopodium, highlights the advantages of Namibia as clear open land with excellent infrastructure including port, sealed highway and grid power drives lowest quartile unit opex and capex. The simple open pit and vanilla CIL enables Osino to adopt a 0.3g/t cut-off, stockpiling lower grades, in a scenario similar to Australian peer Capricorn (CMM AU, A\$640m). This drove a larger inventory than we expected, with the lower grade offset by lower costs, with published post-tax NPV of C\$584m ~10% ahead of our forecast. Making no changes to the PEA scenario other than to account for 7% private minorities and attributing some exploration value drives our group NAV of C\$625m, putting the stock on an undiluted 0.14xNAV. As such, we maintain our BUY rating and 0.6xNAV5%-1850 valuation, lifting our PT from C\$2.55/sh to C\$2.75/sh. Whilst difficult to forecast, modelling 65% gearing and minebuild equity funding at 0.4xNAV drives a fully-funded fully-diluted NAV, net of all finance costs and central G&A, of >C\$4/sh approaching production. Ultimately, this is still only half our investment thesis. The second reason we like Osino is the ability to twin-track exploration. We see no better statistic than comparing the ~70km of drilling in today's PEA/MRE against ~50km underway with 10 rigs right now targeting a 1H22 MRE update. The nature of the ore body, being higher-grade shoots on plunging folds within a lower-grade cloud, leads us to expect grade improvements on infill as shoots are better defined. Combined this with only satellite drilling, and we fully expect the 2021 PFS to show an increase in endowment, and thus improved economics. With the team that has 'done it before' selling nearby Otjikoto to B2, Osino's rare combination of size, simplicity and growth plus belt control makes the stock a conviction name for us.

PROPOSED PLANT
ACCESS ROAD

PROPOSED PLANT
ACCESS ROAD

Figure 1. Pit and plant layout for proposed Twin Hills mine in Namibia

Source: Osino Resources

PEA confirms 'will be a mine' status with 1.5Moz inventory; 124koz pa Y1-6, scope to grow

Osino's maiden PEA outlines a 3.5Mtpa plant processing 1g/t ore at 5:1 strip for LOM 100koz pa, including 124koz pa in early years as stockpiling of lower grades is adopted, with AISC of US\$945/oz. The operation is a vanilla open pit with conventional CIL using standard 75um grind, with the dry climate meaning a three-stage grind is suitable, with water recycling planned to top up bore and pit dewatering sources, with potential to connect to grey-water pipelines. Grid power is envisaged, with a sealed road within 5km of site. The study was completed by African leader Lycopodium, with good infrastructure and open unpopulated land driving lowest quartile unit opex as well as capex (Figure 2). Published post-tax NPV $_{5\%-1850}$ of US\$467m comes with a 44% IRR and 2.1 year payback. The company currently has 10 drill rigs targeting a resource upgrade, after which a PFS is scheduled for 1H21. The PEA comes within two years of discovery. The company will optimise the mine design and production schedule in the PFS, potentially removing one of two ramps for lowered strip. Public consultations are to be held in 3Q21 ahead of an ESIA reported targeted for completion in 4Q21, with no flaws of high significance identified to date.



Table 1. PEA metrics against SCP estimates

Twin Hills (93.05%)	SCP old	PEA	Δ (%)
Mining inventory (Mt)	37.0	48.7	32%
ROM grade (g/t)	1.20	0.98	-18%
Mining inventory AuEq (000oz)	1,427	1,535	8%
LOM recovery (%)	88.0%	90.9%	3%
LOM throughput (Mtpa)	3,895	3,500	-10%
Prod'n Au LOM (000oz pa)	133	99	-25%
ROM grade Y2-6 (g/t)	1.34	1.22	-9%
Production Y2-6 (000oz pa)	154	124	-20%
Mining cost (US\$/t)	2.50	2.08	-17%
Processing cost (US\$/t)	11.50	8.97	-22%
G&A (US\$/t)	3.00	3.00	0%

	SCP old	PEA	Δ (%)
Strip ratio (x)	3.5	5.0	43%
LOM AISC (US\$/oz Au)	708	945	34%
Total build capex (C\$m)	375	253	-33%
Total sust. capex (C\$m)	51	49	-4%
Gold price (US\$/oz)	1,850	1,850	0%
USD / CAD	0.80	0.80	0%
Discount (%)	5.0%	5.0%	0%
NPV post-tax (C\$m)	541	584	8%
IRR post-tax (%)	31%	44%	42%
Payback (years)	2.50	2.10	-16%

Source: SCP estimates, asset value only excl. 6.95% private minority

Our view: NPV beat as capex and opex savings offset smaller mill and lower grade

Resource & inventory: Firstly, Table 2 shows the 2% lift in ounces after restating the resource at 0.3g/t cut-off against prior 0.5g/t, offset by a small drop in grade. With the 43-101 recently lodged for the prior resource, we see no major hurdles; the resource modelling as composites, block sizes and constraining factors all appear sensible (Table 2B). The key here is the mining inventory, which came in 8% above our forecast at 1.5Moz, albeit at 18% lower grade than we forecast at 0.98g/t. Despite some stockpiling, early years do not see that aggressive scheduling of higher grade. That, plus grade-improvements from infill (of higher-grade shoots) could improve the economics in subsequent iterations. In fact, 69,063m of drilling has gone into the resource, yet 31,987m of infill and expansion drilling (of 50,000m total) has already been completed since the MRE cut-off, but is yet to be incorporated in the current MRE / PEA. Stockpiling has been adopted to front-load grade, with lower grades processed in later years, although this has not been done aggressively, with peak stockpiles of 'only' ~9Mt @ 0.6g/t for 175koz.

Table 2. (A) Restated resource at 0.3g/t against prior, and (B) mine plan

Twin Hills (100%) 2Q21	Tonnes (Mt)	Grade (g/t Au)	Ounces (000oz)
M&I	14.0	0.98	0.44
Inferred	46.2	1.02	1.52
Total @ 0.3g/t cut-off	60.2	1.01	1.96
∆ to 2Q21 (@ 0.5g/t)	7%	-5%	2%
SCPe inventory: old	37.0	1.20	1.43
PEA inventory	48.7	0.98	1.54
∆ SCPe	32%	-18%	8%

Modelling paramaters in 2Q21 maiden MRE

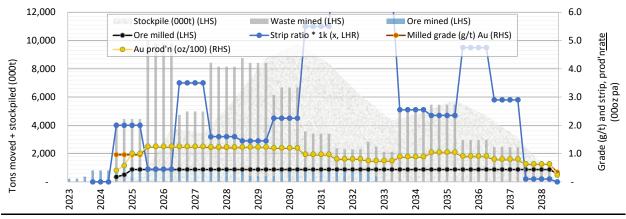
Methodology Ordinary Kriging, 2m composites

Parent block (m) 20 x 20 x 5m

Cut-off (g/t) 0.3g/t, US\$1.85-2.00/t mining, US\$8.15/t proc.

Process method Vanilla CIL, 48-55 pit slope

Whittle contraint US\$, 1700/oz, 90% recovery



Source: Osino, SCP

Economics: Over on a like-for-like US\$1,850/oz, today's PEA shows an 8% beat on NPV_{5%-1850} against our prior asset-only valuation. This was driven by an 8% beat on inventory, ~30% lower capex, and ~20% lower unit-opex, all of which offset grade of 1.0g/t against SCPe 1.2g/t, and a strip of 5:1 vs. our 3.5:1 estimate. In fact, we see the infrastructure advantages (and higher gold price) as driving the lower grade as infrastructure savings allow a lower cut-off grade (0.3g/t for resource vs. 0.5g/t previously), adding more ounces, but coming at lower grade and deeper, hence higher strip. As a point-in-time study, i.e. ahead of likely ounce growth, the study shows a sizeable and robust operation. We see no red-flag risks with 'big blob' ore zones, simple pit mining, vanilla metallurgy, and simple permitting ahead as capex / opex benefits from a lack of lakes / snow / jungle / wars / villages and more. This leaves unit mining, processing and G&A costs at the lower end, but in line with, peers. Capex for West Africa typically includes substantial infrastructure, power, and relocation costs – with all those absent the C\$253m capex for 3.5Mtpa is similarly lowest quartile (Figure 2). While easy to put this down to 'enthusiastic' inputs, we are pleased to see the Lycopodium has authored the report, the most credible EPC contractor in Africa in our view having completed 80% of the builds in our comparison table below.

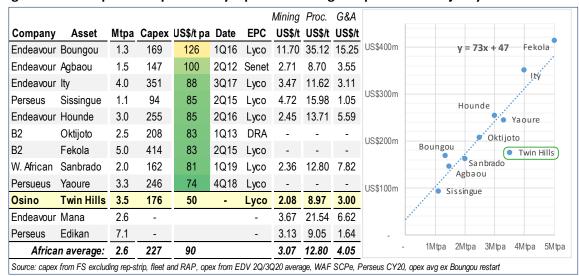


Figure 2. Peer capex and opex with Lycopodium having completed the majority of African builds

Valuation

We model Twin Hills per the PEA, which drives our C\$586m NPV $_{5\%-1850}$, in line with C\$584m published figure at 0.80 CAD/USD. We make no adjustments other than to incorporate government minorities, which drives our asset NPV at build start of C\$57m.

Table 3. PEA valuation against SCP (excluding minorities) and SCP (net 7% minorities)

	OSI	S	CP
Twin Hills (93.05%)	PEA	PEA /	SCP case
Mining inventory (Mt)	48.7	48.7	48.7
ROM grade (g/t)	0.98	0.98	0.98
Mining inventory AuEq (000oz)	1,535	1,535	1,535
LOM recovery (%)	90.9%	90.9%	90.9%
LOM throughput (Mtpa)	3,500	3,500	3,500
Prod'n Au LOM (000oz pa)	99	98	98
ROM grade Y2-6 (g/t)	1.22	1.22	1.22
Production Y2-6 (000oz pa)	124	124	124
Mining cost (US\$/t)	2.08	2.08	2.08
Processing cost (US\$/t)	8.97	8.97	8.97
G&A (US\$/t)	3.00	3.00	3.00

	PEA	PEA /	SCP case
Strip ratio (x)	5.0	5.0	5.0
LOM AISC (US\$/oz Au)	945	943	943
Total build capex (C\$m)	253	253	253
Total sust. capex (C\$m)	49	48	48
Gold price (US\$/oz)	1,850	1,850	1,850
USD / CAD	0.80	0.80	0.80
Discount (%)	5.0%	5.0%	5.0%
Private minority (%)	-	-	7.0%
NPV post-tax (C\$m)	584	580	540
IRR post-tax (%)	44%	35%	34%
Payback (years)	2.10	2.50	2.50
·			_

OSI

SCP

Source: SCP estimates, NPV net of 6.95% minority interest



Recommendation: maintain BUY rating, lift PT from C\$2.55 to C\$2.75/sh

A key tenant to our investment thesis is growing ounces. Nothing typifies this more than the drilling planned for this year of 50,000m against the ~70,000m in the existing MRE and PEA. To incorporate this upside, we add resource outside the mining inventory at US\$50/oz, plus a nominal +200koz @ US\$50/oz also. Adding cash and from ITM options, we maintain our 0.6xNAV multiple applied to the asset value discussed on the prior page, maintaining our BUY rating and lifting our PT from C\$4.55 to C\$4.75/sh.

Table 4 (A) SOTP valuation and (B) sensitivities

Commodity price	CY21E	CY22E	CY23E	CY24E	CY25E	Company NAV: (C\$m, ungeared)*					
Gold price	1,850	1,850	1,850	1,850	1,850	Company NAV (C\$m)	\$1650oz	\$1750oz	\$1850oz	\$1950oz	\$2050oz
SOTP project valuation*						Discount rate: 9%	339	407	474	544	610
		C\$m	O/ship	NAVx	C\$/sh	Discount rate: 7%	394	469	543	620	694
Ungeared @ build start (3	3Q23)	540	100.0%	1.00x	3.99	Discount rate: 5%	459	542	625	710	793
Cash (1Q21)	•	15.9	100%	1.00x	0.12	Ungeared project IRR:	26%	30%	34%	38%	41%
Cash from options		30.4	100%	1.00x	0.22	Company NAV (C\$/sh)	\$1650oz	\$1750oz	\$1850oz	\$1950oz	\$2050oz
Resources ex inventory @) \$50/oz	26.3	100%	1.00x	0.19	Discount rate: 9%	2.51	3.01	3.51	4.02	4.51
Explor'n (SCPe 200koz @	\$50/oz)	12.5	100%	1.00x	0.09	Discount rate: 7%	2.91	3.47	4.02	4.58	5.13
Asset NAV5% US\$1850/o	Z	625			4.62	Discount rate: 5%	3.39	4.01	4.62	5.25	5.86
*Shares diluted for options	mine build	Ma	rket P/NA	V5 _{%4} Q20	0.14x	*Project NPV, ex fin. costs and cent G&A, discounted to build start					

Source: SCP estimates

Whilst difficult to forecast, modelling 65% gearing and mine-build equity funding at 0.4xNAV drives a fully-funded fully-diluted NAV, net of all finance costs and central G&A, of >C\$4/sh as production is approached (Table 5). Ultimately, this is still only half our investment thesis. The second reason we like Osino is the ability to twin-track exploration. We see no better statistic than comparing the ~70km of drilling in today's PEA/MRE against ~50km underway with no fewer than 10 rigs right now. The nature of the ore body, being higher-grade shoots on plunging folds within a lower-grade cloud, leads us to expect grade improvements on infill as shoots are better defined. Combined this with only satellite drill success we fully expect the 2021 PFS to show an increase in endowment and thus economics. With the team that has 'done it before' selling nearby Otjikoto to B2, Osino's rare combination of size, simplicity and growth plus belt control makes the stock a conviction name for us.

Table 5. (A) Funding assumptions and (B) group fully-funded fully-diluted NAV over time

Group NAV over time^	2Q21	2Q22	2Q23	2Q24	2Q25	Project: USES		Funding: SOURCES	
Twin Hills NPV (C\$m)	481.6	505.7	532.3	628.0	866.2	Pre-DFS expl'n / G&A:	C\$35m	Cash + pre first Au op.:	C\$43m
G&A and fin. costs (C\$m)	(93.3)	(83.9)	(74.2)	(71.0)	(59.3)	Build capex:	C\$253m	Pre-build equity:	C\$15m
Net cash prior qtr (C\$m)	15.9	17.9	4.9	24.0	(189.2)	Fin. cost + WC over DFS	C\$18m	Equity @ 0.4xNAV:	C\$85m
Cash from options (C\$m)	30.4	30.4	30.4	30.4	30.4	TOTAL USES:	C\$306m	65% debt @ 8%:	C\$164m
Nominal explo (C\$m)	38.8	38.8	38.8	38.8	38.8	Buffer / drill budget:	C\$2m	TOTAL SOURCES:	C\$307m
NAV FF FD (C\$m)	473	509	532	650	687				
Shares in issue (m)	135	147	147	169	169				
1xNAV5%/sh FF FD (C\$/sh	3.50	3.47	3.63	3.85	4.07	Source: SCP estimate	es		

Why we like Osino Resources

- Vanilla pittable gold with >150koz pa potential with team that has done it before
- Osino's 7,160km² holdings offer near-resource and regional upside
- Namibia's ease of access for drilling, large holding, and rapid permitting

Catalysts

- CY21: 75,000m of drilling split between infill, satellites and some regional
- 1H22: MRE update
- SCPe CY22/23: DFS & build start
- SCPe CY25: First production



Research

Brock Salier (London) M: +44 7400 666 913 <u>bsalier@sprott.com</u>
Justin Chan (London) M: +44 7554 784 688 <u>jchan@sprott.com</u>

Brandon Gaspar (Toronto) M: +1 437 533 3142 bgaspar@sprott.com

Eleanor Magdzinski (Toronto) M: +1 705 669 7456 emagdzinski@sprott.com

Ticker: OSI CN	Price / mk	t cap:	C\$1.31/sh,	C\$137m		Project PNAV today:	0.14x		Asset:	Twin Hills	
Author: Brock Salier	Rec / 0.6xl	IAV PT:	BUY, C	2.75/sh		1xNAV _{3Q24} FF FD:	C\$3.85/sh		Country:	Namibia	
Commodity price	CY21E	CY22E	CY23E	CY24E	CY25E	Resource / Reserve	Tonnes	Grade	Ou	nces	
Gold price	1,850	1,850	1,850	1,850	1,850	Resource	60Mt	1.01g/t	19	56koz	
SOTP project valuation*						PEA mining inventory	49Mt	0.98g/t	15	35koz	
		C\$m	O/ship	NAVx	C\$/sh	Project: USES			Funding: 9	OURCES	
Ungeared @ build start (3Q23)		540	100.0%	1.00x	3.99	Pre-DFS expl'n / G&A	: C\$35m		Cash + pre	first Au op.:	C\$43m
Cash (1Q21)		15.9	100%	1.00x	0.12	Build capex	: C\$253m		Pre-	build equity:	C\$15m
Cash from options		30.4	100%	1.00x	0.22	Fin. cost + WC over DFS	C\$18m		Equity	@ 0.4xNAV:	C\$85m
Resources ex inventory @ \$50/	OZ	26.3	100%	1.00x	0.19	TOTAL USES	: C\$306m		659	% debt @ 8%:	C\$164m
Explor'n (SCPe 200koz @ \$50/oz	z)	12.5	100%	1.00x	0.09	Buffer / drill budget	C\$2m		TOTA	AL SOURCES:	C\$307m
Asset NAV5% US\$1850/oz		625			4.62	Share data	Basic	FD with op	tions	FD fo	or build
*Shares diluted for options mine b	uild		Market P/	NAV5 _{%4} Q20	0.14x	Basic shares (m)	104.6	135.3	3	1	69
Company NAV: (C\$m, ungeared)*					Ratio analysis	CY20A	CY21E	CY22E	CY23E	CY24E
Company NAV (C\$m)	\$1650oz	\$1750oz	\$1850oz	\$1950oz	\$2050oz	Average shares out (m)	146.7	166.2	168.9	168.9	168.9
Discount rate: 9%	339	407	474	544	610	EPS (C\$/sh)	-	-	-	-	-
Discount rate: 7%	394	469	543	620	694	CFPS (C\$/sh)	-	-	-	-	-
Discount rate: 5%	459	542	625	710	793	EV (C\$m)	182.8	196.5	213.2	166.4	399.6
Ungeared project IRR		30%	34%	38%	41%	FCF yield (%)	-	-	-	-	-
Company NAV (C\$/sh)	\$1650oz	\$1750oz	\$1850oz	\$1950oz	\$2050oz	PER (x)	-	-	-	-	-
Discount rate: 9%	2.51	3.01	3.51	4.02	4.51	P/CF (x)	_	_	_	_	_
Discount rate: 7%	2.91	3.47	4.02	4.58	5.13	EV/EBITDA (x)	_	_	_	_	_
Discount rate: 5%	3.39	4.01	4.62	5.25	5.86	Income statement	CY20A	CY21E	CY22E	CY23E	CY24E
*Project NPV, ex fin. costs and cent						Net revenue (C\$m)	-	_	_	_	-
Group NAV over time^	2Q21	2022	2Q23	2Q24	2Q25	COGS (C\$m)	_	_	_	_	_
Twin Hills NPV (C\$m)	481.6	505.7	532.3	628.0	866.2	Gross profit (C\$m)					
G&A and fin. costs (C\$m)	(93.3)	(83.9)	(74.2)	(71.0)	(59.3)	D&A, attrib (C\$m)	0.1	0.1			
Net cash prior qtr (C\$m)	15.9	17.9	4.9	24.0	(189.2)	G&A + sh based costs (C\$m)	6.5	6.7	6.4	5.9	5.4
Cash from options (C\$m)	30.4	30.4	30.4	30.4	30.4	Finance cost (C\$m)	7.3	10.0	8.0	3.9	6.7
·	38.8	38.8	38.8	38.8	38.8	_	-	-	-	- -	0.7
Nominal explo (C\$m)		509			687	Taxes (C\$m)					(12.0)
NAV FF FD (C\$m)	473	147	532 147	650	169	Net income (C\$m)	(13.8)	(16.7)	(14.4)	(9.8)	(12.0) CY24E
Shares in issue (m) 1xNAV5%/sh FF FD (C\$/sh)*	135 3.50	3.47	3.63	169		Cash flow, attrib.	CY20A	CY21E	CY22E	CY23E	
				3.85	4.07	EBIT (C\$m)	(6.5)	(6.7)	(6.4)	(5.9)	(5.4)
Geared NAV at first pour, dilute		\$1750oz		\$1950oz	\$2050oz	Add back D&A (C\$m)	0.1 7.3	0.1 10.0	8.0	3.9	6.7
NAV at first gold (C\$m)	\$1650oz		\$1850oz			Less tax + net interest (C\$m)					0.7
Discount rate: 9%	413	493	572	653	731	Net change in wkg cap (C\$m)	(0.4)	0.2	-	(0.3)	- (42.0)
Discount rate: 7%	455	540	625	712	796	Other non-cash (C\$m)	(10.8)	(18.2)	(14.6)	(5.9)	(12.0)
Discount rate: 5%	503	595	687	781	872	Cash flow ops (C\$m)	(10.3)	(14.6)	(13.0)	(8.2)	(10.7)
Geared project IRR		27%	31%	35%	38%	PP&E - build + sust. (C\$m)	0.8	0.2	-	30.0	222.5
NAV at first gold (C\$/sh)*	\$1650oz	\$1750oz	\$1850oz	\$1950oz	\$2050oz	PP&E - expl'n (C\$m)		-	-	-	
Discount rate: 9%	2.36	2.84	3.33	3.83	4.32	Cash flow inv. (C\$m)	(0.8)	(0.2)	-	(30.0)	(222.5)
Discount rate: 7%	2.62	3.14	3.67	4.21	4.74	Share issue (C\$m)	31.0	15.3	-	85.0	-
Discount rate: 5%	2.92	3.49	4.07	4.66	5.24	Debt draw (repay) (C\$m)	0.0	0.2	-	-	164.1
^Project NPV incl grp SG&A & fin. co	•	. ,				Cash flow fin. (C\$m)	31.0	15.5		85.0	164.1
Production	Y1	Y2	Y3	Y4	Y5	Net change in cash (C\$m)	19.9	0.7	(13.0)	46.8	(69.1)
Gold production (000oz)	75	126	126	124	124	EBITDA (C\$m)	(13.7)	(16.7)	(14.4)	(9.8)	(5.2)
C1 cost (US\$/oz)	755	897	577	808	847	Balance sheet	CY20A	CY21E	CY22E	CY23E	CY24E
AISC cost (US\$/oz)	754	899	572	808	848	Cash (C\$m)	9.5	21.2	8.1	54.9	(14.1)
AISC = C1 + ug sustaining capex, Y	1 = CY25					Acc rec., inv, prepaid (C\$m)	0.3	0.3	0.3	-	-
Gold prod'n (LHS, 000oz)	→ A	SC (RHS, US	oz Au)	1000/-	PP&E + other (C\$m)	13.6	3.1	3.1	33.1	255.6
150koz					1000/oz	Total assets (C\$m)	23	25	12	88	242
4001			*			Debt (C\$m)	-	-	-	-	164.1
100koz					,	Accounts payable (C\$m)	1.4	2.2	2.2	2.2	2.2
					500/oz	Others (C\$m)	0.2	0.3	0.3	0.3	0.3
50koz						Total liabilities (C\$m)	1.6	2.5	2.5	2.5	166.6
						Issued capital (C\$m)	54.3	71.3	72.6	159.0	160.3
0koz					0/oz	Retained earnings (C\$m)	(31.8)	(48.2)	(62.6)	(72.4)	(84.5)
Y1 Y2	Y	3	Y4	Y5		Liabilities + equity (C\$m)	23	25	12	88	242
Source: SCP estimates											•



Equity Research

DISCLOSURES & DISCLAIMERS

This research report (as defined in IIROC Rule 3400) is issued and approved for distribution in Canada by Sprott Capital Partners LP ("SCP"), an investment dealer who is a member of the Investment Industry Regulatory Organization of Canada ("IIROC") and the Canadian Investor Protection Fund ("CIPF"). The general partner of SCP is Sprott Capital Partners GP Inc. and SCP is a wholly-owned subsidiary of Sprott Inc., which is a publicly listed company on the Toronto Stock Exchange under the symbol "SII". Sprott Asset Management LP ("SAM"), a registered investment manager to the Sprott Funds and is an affiliate of SCP. This research report is provided to retail clients and institutional investors for information purposes only. The opinions expressed in this report are the opinions of the author and readers should not assume they reflect the opinions or recommendations of SCP's research department. The information in this report is drawn from sources believed to be reliable but the accuracy or completeness of the information is not guaranteed, nor in providing it does SCP and/or affiliated companies or persons assume any responsibility or liability whatsoever. This report is not to be construed as an offer to sell or a solicitation of an offer to buy any securities. SCP accepts no liability whatsoever for any loss arising from any use or reliance on this research report or the information contained herein. Past performance is not a guarantee of future results, and no representation or warranty, expressed or implied, is made regarding future performance of any security mentioned in this research report. The price of the securities mentioned in this research report and the income they generate may fluctuate and/or be adversely affected by market factors or exchange rates, and investors may realize losses on investments in such securities, including the loss of investment principal. Furthermore, the securities discussed in this research report may not be liquid investments, may have a high level of volatility or may be subject to additional and special risks associated with securities and investments in emerging markets and/or foreign countries that may give rise to substantial risk and are not suitable for all investors. SCP may participate in an underwriting of, have a position in, or make a market in, the securities mentioned herein, including options, futures or other derivatives instruments thereon, and may, as a principal or agent, buy or sell such products.

DISSEMINATION OF RESEARCH: SCP's research is distributed electronically through email or available in hard copy upon request. Research is disseminated concurrently to a pre-determined list of clients provided by SCP's Institutional Sales Representative and retail Investment Advisors. Should you wish to no longer receive electronic communications from us, please contact unsubscribe@sprott.com and indicate in the subject line your full name and/or corporate entity name and that you wish to unsubscribe from receiving research.

RESEARCH ANALYST CERTIFICATION: Each Research Analyst and/or Associate who is involved in the preparation of this research report hereby certifies that:

- The views and recommendations expressed herein accurately reflect his/her personal views about any and all of the securities or issuers that are the subject matter of this research report;
- His/her compensation is not and will not be directly related to the specific recommendations or view expressed by the Research analyst in this research report;
- They have not affected a trade in a security of any class of the issuer within the 30-day period prior to the publication of this research report;
- They have not distributed or discussed this Research Report to/with the issuer, investment banking group or any other third party except for the sole purpose of verifying factual information; and
- They are unaware of any other potential conflicts of interest.

UK RESIDENTS: Sprott Partners UK Limited ("Sprott") is an appointed representative of PillarFour Securities LLP which is authorized and regulated by the Financial Conduct Authority. This document has been approved under section 21(1) of the FMSA 2000 by PillarFour Securities LLP ("PillarFour") for communication only to eligible counterparties and professional clients as those terms are defined by the rules of the Financial Conduct Authority. Its contents are not directed at UK retail clients. PillarFour does not provide investment services to retail clients. PillarFour publishes this document as non-independent research which is a marketing communication under the Conduct of Business rules. It has not been prepared in accordance with the regulatory rules relating to independent research, nor is it subject to the prohibition on dealing ahead of the dissemination of investment research. It does not constitute a personal recommendation and does not constitute an offer or a solicitation to buy or sell any security. Sprott and PillarFour consider this note to be an acceptable minor non-monetary benefit as defined by the FCA which may be received without charge. This is because the content is either considered to be commissioned by Sprott's clients as part of their advisory services to them or is short term market commentary. Neither Sprott nor PillarFour nor any of its directors, officers, employees or agents shall have any liability, howsoever arising, for any error or incompleteness of fact or opinion in it or lack of care in its preparation or publication; provided that this shall not exclude liability to the extent that this is impermissible under the law relating to financial services. All statements and opinions are made as of the date on the face of this document and are not held out as applicable thereafter. This document is intended for distribution only in those jurisdictions where PillarFour is permitted to distribute its research.

IMPORTANT DISCLOSURES FOR U.S. PERSONS: This research report was prepared by Sprott Capital Partners LP ("SCP"), a company authorized to engage in securities activities in Canada. SCP is not a registered broker/dealer in the United States and, therefore, is not subject to U.S. rules regarding the preparation of research reports and the independence of research analysts. This research report is provided for distribution to "major U.S. institutional investors" in reliance on the exemption from registration provided by Rule 15a-6 of the U.S. Securities Exchange Act of 1934, as amended (the "Exchange Act"). Any U.S. recipient of this research report wishing to effect any transaction to buy or sell securities or related financial instruments based on the information provided in this research report should do so only through Sprott Global Resource Investments Ltd. ("SGRIL"), a broker dealer in the United States registered with the Securities Exchange Commission ("SEC"), the Financial Industry Authority ("FINRA"), and a member of the Securities Investor Protection Corporation ("SIPC"). Under no circumstances should any recipient of this research report effect any transaction to buy or sell securities or related financial instruments through SCP.

SGRIL accepts responsibility for the contents of this research report, subject to the terms set out below, to the extent that it is delivered to a U.S. person other than a major U.S. institutional investor. The analyst whose name appears in this research report is not licensed, registered, or qualified as a research analyst with FINRA and may not be an associated person of SGRIL and, therefore, may not be subject to applicable restrictions under FINRA Rule 2241 regarding communications by a research analyst with a subject company, public appearances by the research analyst, and trading securities held by a research analyst account. To make further inquiries related to this report, United States residents should contact their SGRIL representative.



ANALYST CERTIFICATION / REGULATION AC: The analyst and associate certify that the views expressed in this research report accurately reflect their personal views about the subject securities or issuers. In addition, the analyst and associate certify that no part of their compensation was, is, or will be directly or indirectly related to the specific recommendations or views expressed in this research report.

SPROTT CAPITAL PARTNERS EXPLANATION OF RECCOMENDATIONS: Should SCP issue research with recommendations, the research rating guidelines will be based on the following recommendations:

BUY: The stocks total returns are expected to be materially better than the overall market with higher return expectations needed for more risky securities markets

NEUTRAL: The stock's total returns are expected to be in line with the overall market

SELL: The stocks total returns are expected to be materially lower than the overall market

TENDER: The analyst recommends tendering shares to a formal tender offering

UNDER REVIEW: The stock will be placed under review when there is a significant material event with further information pending; and/or when the research analyst determines it is necessary to await adequate information that could potentially lead to a reevaluation of the rating, target price or forecast; and/or when coverage of a particular security is transferred from one analyst to another to give the new analyst time to reconfirm the rating, target price or forecast.

NOT RATED ((N/R): The stock is not currently rated

Re	search Disclosure	Response
1	SCP and its affiliates collectively beneficially owns 1% or more of any class of the issuer's equity securities ¹	NO
2	The analyst or any associate of the analyst responsible for the report or recommendation or any individual directly involved in the preparation of the report holds or is short any of the issuer's securities directly or through derivatives	NO
3	An SCP partner, director, officer or analyst involved in the preparation of a report on the issuer, has during the preceding 12 months provided services to the issuer for remuneration other than normal course investment advisory or trading execution services	NO
4	SCP has provided investment banking services for the issuer during the 12 months preceding the date of issuance of the research report or recommendation	NO
5	Name of any director, officer, employee or agent of SCP who is an officer, director or employee of the issuer, or who serves in an advisory capacity to the issuer	NO
6	SCP is making a market in an equity or equity related security of the issuer	NO
7	The analyst preparing this report received compensation based upon SCP's investment banking revenue for the issuer	NO
8	The analyst has conducted a site visit and has viewed a major facility or operation of the issuer	NO
9	The analyst has been reimbursed for travel expenses for a site visit by the issuer	NO

Sprott Capital Partners Equity Research Ratings:

Summary of Recommendations as of July 2021					
BUY:	44				
HOLD:	0				
SELL:	0				
UNDER REVIEW:	0				
TENDER:	0				
NOT RATED:	0				
TOTAL	44				

¹ As at the end of the month immediately preceding the date of issuance of the research report or the end of the second most recent month if the issue date is less than 10 calendar days after the end of the most recent month

