

# Northern Superior Intersects 1.09g/ t Au Over 41.0m Extending Falcon Gold Zone Vertical Continuity To 381.7m

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## **DEMONSTRATES POTENTIAL OF HIGHER-GRADE GOLD MATERIAL AT DEPTH with 5.19g/t over 3m and EXTENDS GOLD MINERALIZATION AT TARGET 1B**

SUDBURY, June 14, 2022 - Northern Superior Resources ("Northern Superior" or the "Company") (TSXV:SUP) (OCTQB:NSUPF) is pleased to release assay data associated with the first 7 of 13 core drill holes (Figure 1, 5,418.3m) from the Company's 2022 winter core drill program on its large (20 x 15km) 100% owned Lac Surprise property.

### Vertical Continuity Expanded to 381.7m

These first 4 holes of this program were designed to test the depth extension and vertical continuity of the Falcon Gold Zone (FGZ). All 4 holes were successful in intersecting gold bearing zones in the FGZ highlighted by Hole LCS22-58 which intersected 1.09g/t over 41m and hole LCS22-56 intersecting significant thickness with 0.71g over 41.5m including 1.57g/t over 11.57m increasing the vertical continuity of the FGZ by 93m to 381.7m (Figure 2; Table 1)

The first 4 core drill holes of this program were completed over a strike length of 662m, a section of the 900m strike length outlined for the FGZ thus far. These holes were designed to test the extension of the vertical continuity of FGZ. Holes LCS22-055, 56 and 58 and 59 were drilled to a true vertical depth "TVD" of 321m, 372m and 381m and 240m, respectively (Hole LCS22-057 was abandoned at 69.0m due to alignment issues). The FGZ remains open at depth and a series of deeper step down holes have already been identified.

The observations and assay results from these first four holes continue to demonstrate the remarkable lateral and vertical continuity of the FGZ, highlighted by a 100% "hit" rate from all 33 holes drilled into the FGZ thus far, over 900m of strike length and now a vertical depth of 381m demonstrating continued vertical continuity and extension of the FGZ. This has very positive implications for eventual volumes of mineralized material. Multiple holes drilled within the 900m of strike length defined assayed over 1.00 g/t Au (Figure 3).

### Higher Grade Sub Intervals

The first 4 core drill holes of this program also succeeded in establishing the potential of higher-grade gold-bearing material occurring at depth, highlighted by an intersection of 5.19g/t Au over 3.0m (LCS22-058; Table 1). Compilation of gold assay data from all holes drilled into the FGZ to date suggest the presence of at least two high-grade gold-bearing zones plunging to the west within the FGZ (Figure 4).

LCS22-059 intersected an interval of 0.62g/t Au over 19.7m (Table 1), which importantly documented a strong molybdenite presence (Figure 4). A similar, strong molybdenite signature, observed in FGZ core elsewhere within Target 1 often produced higher gold and silver grades (Table 2). As such, an additional core drill hole to test this area of the system is warranted as this area looks quite promising from a geological perspective.

Drill hole LCS22-055 returned lower than average grades for the FGZ due to the fact it deviated west of its intended target (Figure 4). As such, it missed an area where higher grade material is thought to exist. Thus another hole closer to the intended target area is warranted.

The FGZ is a major, near-surface new discovery made by Northern Superior over the past 18 months and

can be traced west over 900m from the eastern boundary of the property, on strike with Vanstar/ IAMGold's 3.2M ounces at 1.02 g/t Au Nelligan gold deposit\*(see Figure 2, Northern Superior press release, August 17, 2021). The FGZ remains open to the west and at depth.

#### Extension of Gold Mineralization at Target 1B

Establishing the potential for an additional gold-bearing system at Target 1B, south of and parallel to the FGZ, Target 1 (Figure 1). This additional system was intersected by 3 holes associated with this program with hole LCS 22-061 intersecting 0.90 g/t over 13.1m following up on hole LCS20-21 completed in 2020 (0.29g/t Au over 23.1m; see Northern Superior press release January 21, 2021). Given that the three core drill holes from this program were purely exploration and spaced over 760m, each of which intersected gold-bearing material across such a strike length, at a relatively shallow depth is encouraging and warrants further testing. These potential satellite parallel systems would be consistent with what is seen at the neighboring Nelligan deposit to the west (Table 3).

Dr. T.F. Morris, President and CEO states: "We are very pleased to have achieved the goals set out for this program. The ability to successfully extend the vertical continuity of FGZ zone another 93m to 381.7m with gold grades consistent with those previously reported, points to the robust nature of the FGZ along 900m of strike length. That we have also demonstrated the potential of higher-grade gold material at depth within the system is also strongly encouraging. These observations, coupled with the fact that the system remains open along strike to the west and at depth makes the FGZ a truly exciting discovery and opportunity."

"We are also excited that there may be an additional gold-bearing system south of and along strike of the FGZ. That a second, satellite gold-bearing system exists next to the FGZ would be consistent with the situation associated with the neighboring Nelligan gold deposit, where there are three satellite zones associated with the main Renard Gold Zone\*.

"We are also looking very much forward to seeing what assay results from the remaining 5 holes, west of the FGZ, reveal. Where we hope to see a continued westward extension of the FGZ and/ or new additional areas of gold mineralization."

Figure 1. Location, first seven drill collars and traces, Targets 1 and 1B, 2022 core drill program.

Figure 2. Vertical cross sections illustrating the projected extension of the FGZ to surface, four drill holes, Target 1, 2022 winter drill program. Section 1: LCS22-055 (336m); Section 2: LSC22-056 (343m); Section 3: LCS22-058 (340m); LCS22-059 381.7m)(see Figure 1 for collar locations).

Figure 3. Highlighted drill intersections with gold values >1.0g/t Au, Falcon Gold Zone highlighting lateral continuity with remarkable consistency and predictability.

Figure 4. FGZ high grade long section composite gold grade illustrating two potential high-grade zones plunging west. Note system is open at depth and strike. See text for details.

#### TARGET 1

Zone	From (m)	To (m)	Length (m)	Au g/t	Au g/t FA	Ag g/t
LCS22-055						
Épervier (?)	343.00	350.00	7.00	0.59		0.80
Falcon Gold Zone	395.90	424.00	28.10	0.39		0.52
Including	415.50	422.90	9.90	0.77		0.65
Including	413.00	415.50	2.50	1.33		1.11
LCS22-056						

Unknown	228.00	238.50	10.50	0.12		0.15
Unknown	272.50	272.50	3.00	0.33		0.37
Footwall (?)	343.00	360.50	17.50	0.39		0.43
Falcon Gold Zone	417.50	459.00	41.50	0.71		1.47
Including	447.25	459.00	11.75	1.57		3.25
Including	454.00	456.00	2.00	3.70	3.80	7.86
Unknown	473.50	482.50	9.00	0.37		0.51
Épervier (?)	530.50	533.50	3.00	1.38		0.32
LCS22-058						
Unknown	407.50	418.50	11.00	1.41		0.24
Falcon Gold Zone	406.00	447.00	41.00	1.09		0.85
Including	423.40	433.00	9.60	2.26		1.38
Including	428.50	431.50	3.00	4.76	5.19	1.64
LCS22-059						
Falcon Gold Zone	362.00	381.70	19.70	0.62		1.88
Including	373.00	379.10	6.10	1.08		1.58

Table 1. Summary of anomalous gold assays, highlighting higher grade intersections the FGZ, Target 1. True width is estimated to be between 70 and 85% of core length. Note multiple intersections of anomalous gold. LCS22-057 was abandoned due to excessive deviation issues.

Zone	From (m)	To (m)	Length (m)	Au (g/t)	Ag (g/t)	Mo (ppm)
LCS21-024						
Falcon Gold Zone	109.40	152.00	42.60	0.55	1.08	50.74
Including	132.50	151.00	1.92	1.75	2.23	103.27
LCS21-025						
Falcon Gold Zone	253.00	308.30	55.30	0.55	1.08	50.74
Including	271.00	278.00	7.00	1.57	2.31	38.38
Including	295.15	305.50	10.35	1.42	2.53	223.76
LCS21-026						
Falcon Gold Zone	90.00	106.50	16.50	0.48	0.51	15.52
Falcon Gold Zone	175.50	183.00	7.50	1.49	1.76	55.62
LCS-21-027						

Falcon Gold Zone	249.00	268.20	19.20	1.13	2.00	64.98
LCS21-028						
Falcon Gold Zone	98.00	145.00	47.00	0.69	1.52	35.04
including	130.50	145.00	14.50	1.10	3.66	85.25
BP17-005ext						
Falcon Gold Zone	251.50	285.00	33.50	0.68	0.86	31.88
Including	270.10	272.50	2.40	2.13	4.08	139.26
LCS21-029						
Falcon Gold Zone	273.00	313.00	40.00	1.36	2.45	14.18
Including	306.00	307.50	1.50	23.80	51.70	21.60
LCS21-030						
Falcon Gold Zone	195.55	249.00	53.45	0.90	0.96	24.60
Including	197.00	203.30	6.30	1.86	0.85	22.76
Including	230.00	244.70	14.70	1.53	1.46	17.47
LCS21-031						
Falcon Gold Zone	295.50	304.00	8.50	1.32	1.07	38.28
Including	298.00	299.00	1.00	4.07	3.59	270.00
LCS21-032						
Falcon Gold Zone	107.40	150.00	42.60	1.99	1.98	44.16
Including	133.00	148.00	15.00	4.99	4.47	84.57
Including	145.00	148.00	3.00	22.13	18.85	318.00
Including	146.10	147.00	0.90	65.70	43.10	774.00
LCS21-033						
Falcon Gold Zone	193.50	244.00	50.50	0.63	0.98	14.87
Including	196.00	202.00	6.00	1.83	1.37	50.00
Including	224.50	227.00	2.50	1.69	0.81	4.00
Including	237.00	241.00	4.00	1.15	1.35	0.98
LCS21-034						
Falcon Gold Zone	117.50	152.50	35.00	0.78	2.07	64.77
Including						

119.00

120.10







155.94



Including	134.00	135.00	1.00	4.56	0.78	0.79
Including	144.00	145.00	1.00	7.59	27.60	1260.00
LCS19-010						
Falcon Gold Zone	337.00	352.00	15.00	1.21	1.07	5.97
Including	350.00	351.00	1.00	14.25	2.00	5.82
LCS21-035						
Falcon Gold Zone	219.00	235.00	16.00	1.14	1.07	2.42
Including	228.00	232.00	4.00	3.86	2.05	5.12
LCS21-038						
Falcon Gold Zone	114.00	118.00	4.00	0.32	0.10	10.62
LCS21-039						
Falcon Gold Zone	134.00	151.50	17.50	0.15	0.84	23.29
LCS21-040						
Falcon Gold Zone	150.00	157.90	7.90	0.60	1.59	72.37
LCS21_041						
Falcon Gold Zone	228.50	240.00	11.50	1.16	1.76	146.90
Including	232.00	233.50	1.50	2.89	2.88	613.00
LCS21-042						
Falcon Gold Zone	38.10	81.50	43.40	0.33	0.78	29.24
Including	78.50	79.00	0.50	3.98	6.31	794.00
LCS21-043						
Falcon Gold Zone	95.00	138.00	43.00	1.10	1.95	13.87
Including	102.00	107.50	5.50	3.91	8.03	110.36
Including	103.15	104.00	0.85	8.96	7.84	67.34
and	106.35	107.50	1.15	8.72	27.20	411.00
Including	117.00	121.00	4.00	2.32	2.26	56.06
LCS21-044						
Falcon Gold Zone	26.00	54.10	28.10	0.43	1.04	41.44
LCS21-045						
Falcon Gold Zone						

25.00

47.60

22.60

0.54

0.87

56.51



Including	44.50	47.00	2.50	2.67	2.50	161.47
LCS21-046						
Falcon Gold Zone	158.00	189.00	31.00	0.78	1.03	23.86
Including	179.00	189.00	10.00	1.34	2.40	64.09
LCS21-047						
Falcon Gold Zone	208.80	265.70	56.90	0.62	1.23	55.35
Including	238.50	265.70	34.70	0.75	1.44	87.20
Including	262.50	265.70	3.20	4.01	9.32	741.00

Table 2. Summary table illustrating relationship between molybdenum, silver and higher-grade gold assays.

TARGET 1B

Zone	From (m)	To (m)	Length (m)	Au g/t	Au g/t FA	Ag g/t
LCS20-21						
Previous Intersection	19.50	42.58	23.08	0.29		0.09
LCS22-060						
New Intersection	89.00	92.00	3.00	0.54		0.10
LCS22-061						
New Intersection	33.50	35.90	2.40	1.21		0.54
New Intersection	82.70	96.00	13.30	0.90		0.23
Including	83.30	84.30	1.00	3.89	3.70	0.37
Including	94.50	95.30	0.80	3.94	3.65	0.88
LCS22-062						
New Intersection	66.70	72.00	5.30	0.72		0.72
New Intersection	102.00	104.50	2.50	0.33		0.14

Table 3. Summary of anomalous gold assays, Target 1B. True width is estimated to be between 70 and 85% of core length.

Post Winter Core Drill Program

An extensive and aggressive property wide exploration program is currently underway over the whole property, the purpose of which is to identify additional areas of gold mineralization. This mapping and prospecting program is supported through recommendations proposed by Orix Geosciences who completed a property-wide geoscientific compilation and interpretation of the Lac Surprise property. In addition, interpretations made from previous drone-supported airborne magnetic surveys (see Northern Superior press release April 19<sup>th</sup>, 2021) and an Induced Polar geophysical survey over the Amber area of the property (see Northern Superior press release March 14, 2022) will also direct the bedrock mapping and prospecting programs.

Qualified Person

Sarah Dean (P.Geol.) is a Qualified Person ("QP") within the meaning of National Instrument 43-101. Ms. Dean has reviewed, and approved information disclosed in this press release related to the Lac Surprise program.

Note to readers: Mineralization hosted on adjacent and/or nearby properties is not necessarily indicative of mineralization hosted on the Company's property.

\*Reference for IAMGOLD/Vanstar's Nelligan 3.2MM Inferred Gold Resource: "Carrier, Alain (M.Sc., P.Geol.); Nadeau-Benoit, Vincent (P.Geol.); Fauvre, Stéphane (PhD., P.Geol.). October 22, 2019. NI 43-101 Technical Report and Initial Resource Estimate for the Nelligan Project, Québec, Canada."

About Northern Superior Resources Inc.

The Lac Surprise gold property is one of three key mineral properties 100% owned by Northern Superior. The Company's two other properties (TPK and Croteau Est) also represent regional scale exploration opportunities (see Northern Superior Corporate Presentation, [www.nsuperior.com](http://www.nsuperior.com)).

Northern Superior is a reporting issuer in British Columbia, Alberta, Ontario and Québec, and trades on the TSX Venture Exchange under the symbol SUP, and the OTCQB Venture Market under the symbol NSUPF.

For Further Information

Please refer to Northern Superior news available on the Company's website ([www.nsuperior.com](http://www.nsuperior.com)) and on SEDAR ([www.sedar.com](http://www.sedar.com)) or contact:

Thomas F. Morris PhD., P.Geol., FGAC, ICD.D  
President and CEO  
Tel: (705) 525 7092  
Fax: (705) 525 7701  
e-mail: [info@nsuperior.com](mailto:info@nsuperior.com)

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