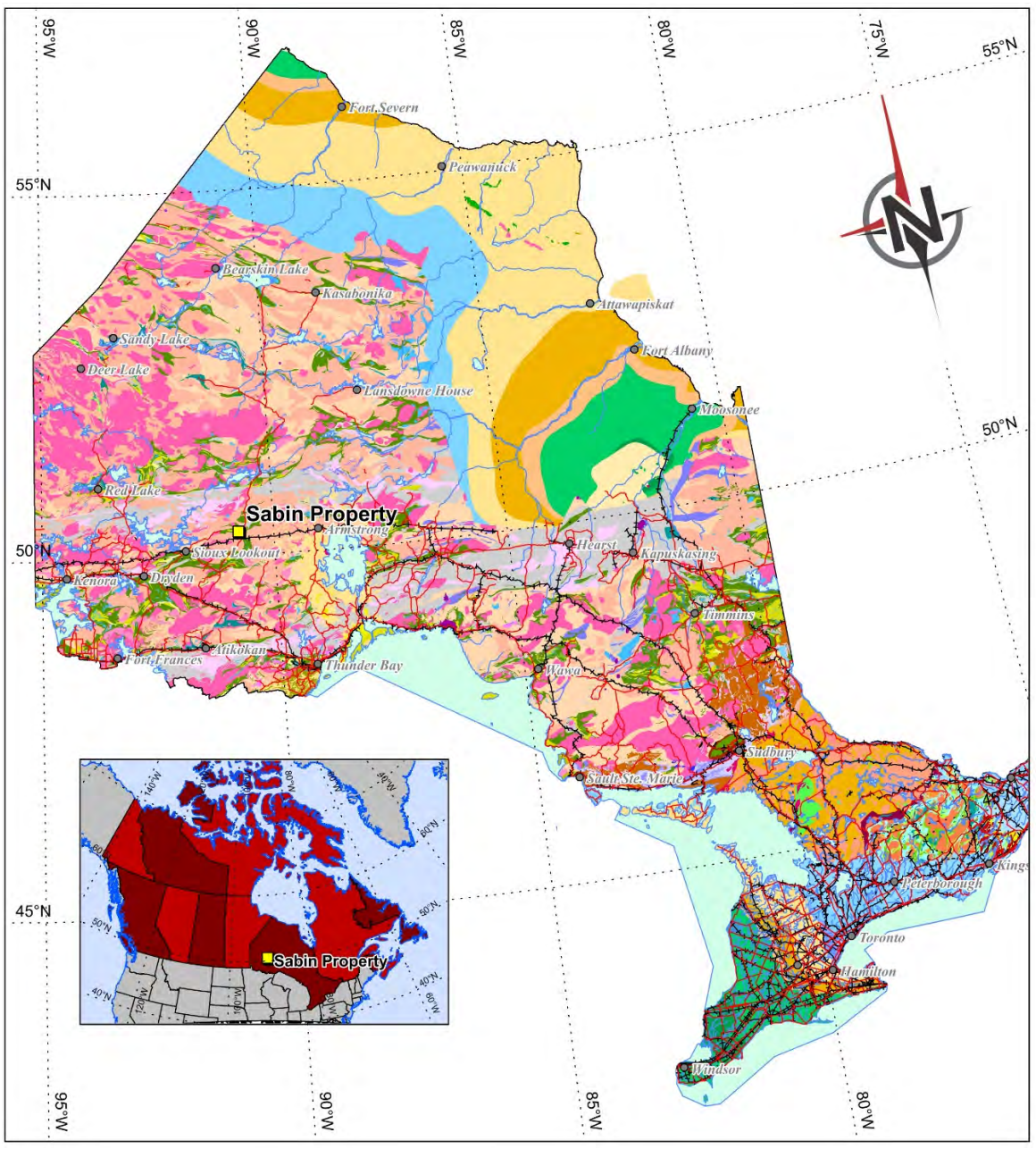
COMMANDER RESOURCES LTD.
TSX.V : CMD

SABIN

- Sabin: Gold and Silver–rich VMS base metal deposit in Ontario
- Target: Volcanogenic Massive Sulphide in historic mining region. Gold and Silver-rich suggesting possible Rainy River or La Ronde–style target
- Historical work from 70’s and 80’s with small open ended ~200,000 T resource
- Recent work by Commander ~ $150,000 including first modern geophysical survey
- Recent sampling by Commander indicates zones of high gold and silver in addition to copper and zinc
- Expanded alteration envelope indicated from new mapping and recent geophysical survey
- 100% Commander except for 2 small internal parcels partly owned by Glencore
- Underlying royalty of 1% NSR due to UMEX on core of property
- Recommended program: drill ready in part but many targets require first pass sampling, IP geophysics



COMMANDER RESOURCES LTD.

Date: Dec. 21, 2019

Drafted by: S. Wetherup

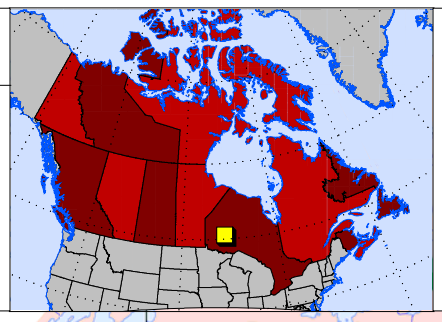
Figure:

Sabin Property

Regional Geology of the Savant-Sturgeon Lake GreenstoneBelt

Ontario, Canada

UTM NAD83 Zone 15



Legend

- Watercourse
- Waterbody
- Line
- Property outline
- Mineral deposit

Rock types

- granitoid rocks
- diorite
- clastic sedimentary rocks
- felsic volcanic rocks
- intermediate volcanics
- mafic volcanic rocks
- ultramafic rocks

5,590,000

5,580,000

5,570,000

5,560,000

5,550,000

5,540,000

5,530,000

516

Marchington

St. Anthony Mine

Lyon Lake Zone

Sturgeon Lake Mine

Mattabi Mine

F Group

640,000

650,000

660,000

670,000

680,000

0 10

kilometers

COMMANDER RESOURCES LTD.

Date: Dec. 21, 2019

Drafted by: S. Wetherup

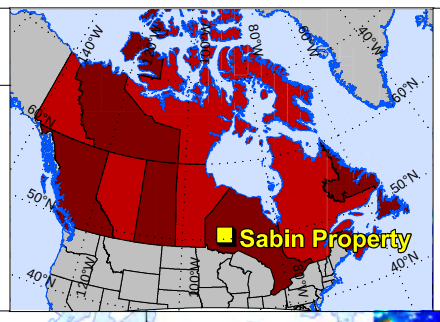
Figure:

Sabin Property

Regional 1VD Mag. of the Savant-Sturgeon Lake Greenstone Belt

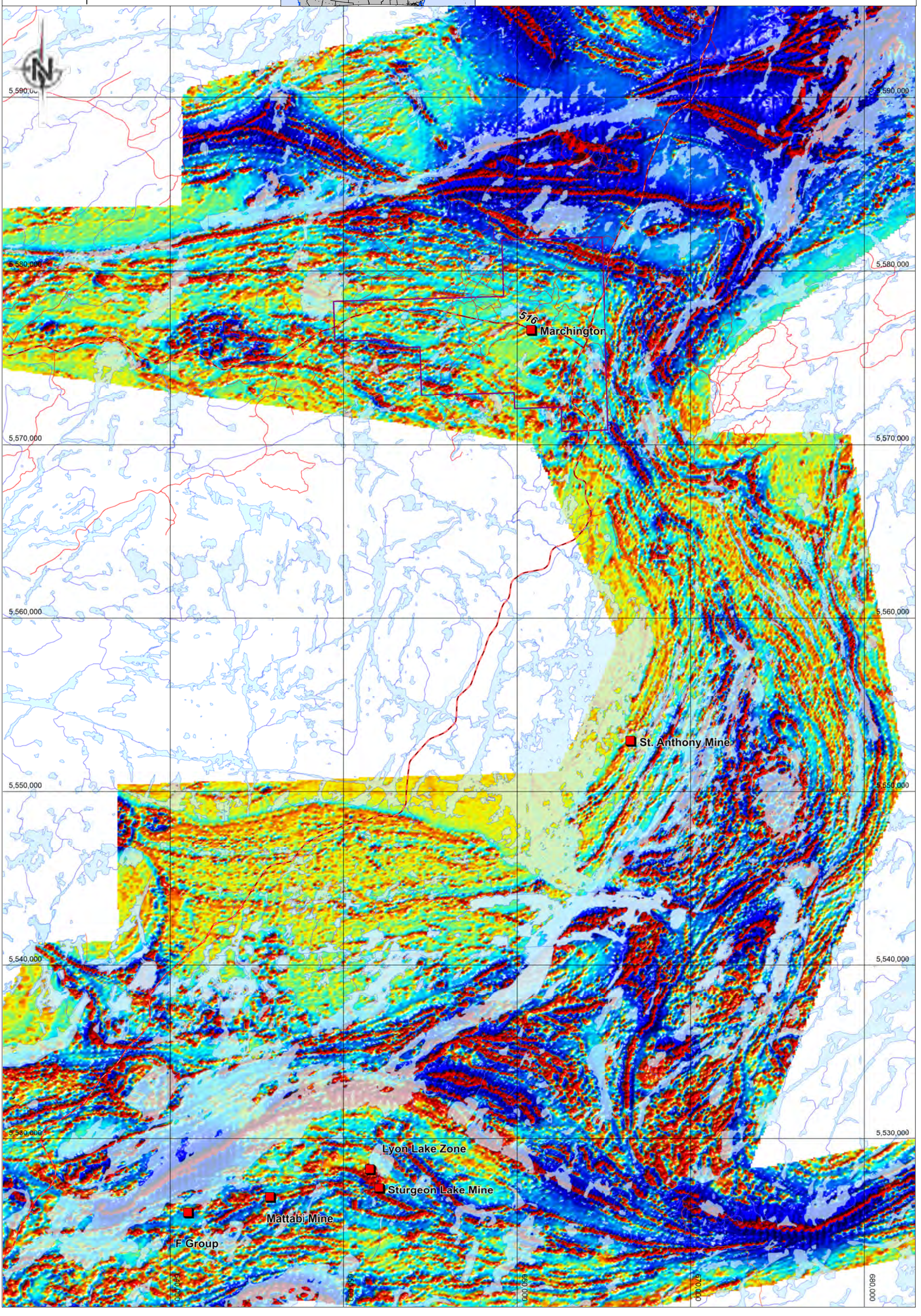
Ontario, Canada

UTM NAD83 Zone 15



Legend

- Watercourse
- Waterbody
- Line
- Property outline
- Mineral deposit



COMMANDER RESOURCES LTD.

Date: Dec. 21, 2020	Sabin Property
Drafted by: S. Wetherup	Claims and Ownership
Figure:	Description
	Ontario, Canada
	UTM NAD83 Zone 15

0 1
kilometers

Legend
- Elevation contour
- Watercourse
- Waterbody
- Line
- Road
- VMS horizon
- Inferred VMS horizon

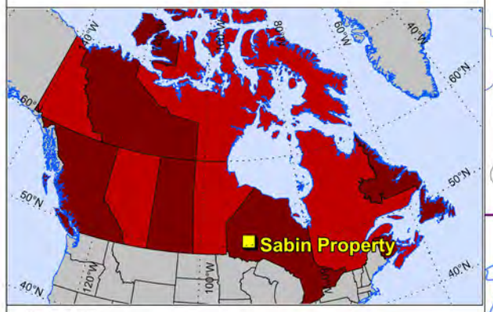
Ownership Description
- CMD - 62.7 pct
  Glencore - 37.3 pct
- CMD - 58.5 pct
  Glencore - 41.5 pct
- 1 pct NSR to UMEX
- Sabin Property
  No underlying agreements

655,000
660,000
665,000
5,580,000
5,575,000
599
Quarry
516
West Kash
Kash
Marchington
South
S-23
Gotsil
Hadley
S Evans

COMMANDER RESOURCES LTD.

Date: Dec. 21, 2020	Sabin Property
Drafted by: S. Wetherup	VTEM
Figure:	Total Magnetic Intensity
	Ontario, Canada
	UTM NAD83 Zone 15

0 1
kilometers



Legend

- Elevation contour
- Watercourse
- Waterbody
- Line
- Road
- Property outline
- Mineralized Zone
- Inferred VMS horizon

EM Conductor Picks
Priority
1
2
3
4
5

Total Magnetic Intensity
(nT)

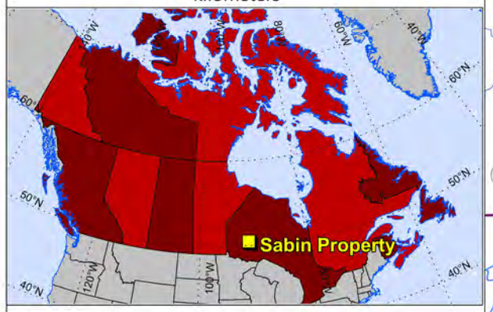
56,887.75
56,816.6
56,781.5
56,761.15
56,746.02
56,735.36
56,726.05
56,718.49
56,710.74
56,703.56
56,696.78
56,689.99
56,683.2
56,677
56,668.86
56,618.25

655,000
660,000
665,000
5,580,000
5,575,000
599
Quarry
516
West Kash
Kash
Marchington South
S-23
Goisil
Hadley
S Evans

COMMANDER RESOURCES LTD.

Date: Dec. 21, 2020	Sabin Property
Drafted by: S. Wetherup	VTEM B-Field Z Component
Figure:	Channel 30, 0.880 ms
	Ontario, Canada
	UTM NAD83 Zone 15

0 1
kilometers



Legend

- Elevation contour
- Watercourse
- Waterbody
- Line
- Road
- Property outline
- Mineralized Zone
- Inferred VMS horizon
- DDH

EM Conductor Picks
Priority
1
2
3
4
5

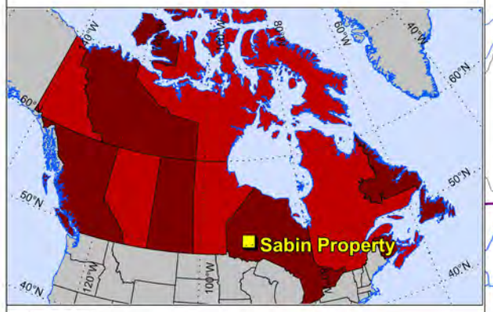
B-Field Z-Component
7.62
0.0245
-0.0054

655,000
660,000
665,000
5,580,000
5,575,000
599
Quarry
516
West Kash
Kash
Marchington
South
S-23
Golsil
Hadley
S Evans

COMMANDER RESOURCES LTD.

Date: Dec. 21, 2020	Sabin Property
Drafted by: S. Wetherup	VTEM RDI: Resistivity Depth
Figure:	Slice at 100 m
	Ontario, Canada
	UTM NAD83 Zone 15

0 1
kilometers



Legend

- Elevation contour
- Watercourse
- Waterbody
- Line
- Road
- Property outline
- Mineralized Zone
- Inferred VMS horizon

EM Conductor Picks
Priority
1
2
3
4
5

VTEM RDI (Ohm-m)
6,700
4,580
2,550
2,040
1,530
352

655,000
660,000
665,000
5,580,000
5,575,000
599
516
Quarry
West Kash
Kash
Marchington South
S-23
Golsil
Hadley
S Evans

COMMANDER RESOURCES LTD.

Date: Dec. 21, 2020	Sabin Property
Drafted by: S. Wetherup	Property Geology and
Figure:	Regional Geology Mapping
	Ontario, Canada
	UTM NAD83 Zone 15

0 0.5
kilometers

Legend

- Elevation contour
- Watercourse
- Waterbody
- Line
- Road
- Property outline

Property Geology

- Granite and granodiorite
- Mafic intrusive
- Metasedimentary rocks
- Felsic volcanic rocks
- Intermediate volcanic rocks
- Mafic volcanic rocks

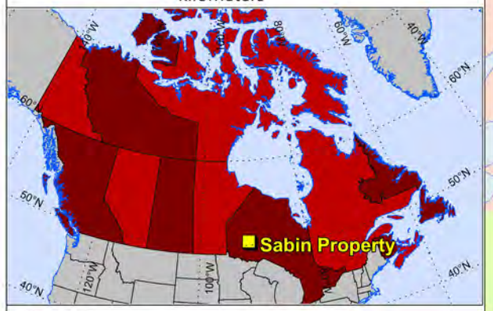
- Mineralized Zone
- Inferred VMS horizon
- Geological contact
- Property mapping extents

655,000
660,000
665,000
5,580,000
5,575,000
599
Quarry
516
West Kash
Kash
Marchington
South
S-23
Golsil
Hadley
S Evans

COMMANDER RESOURCES LTD.

Date: Dec. 21, 2020	Sabin Property
Drafted by: S. Wetherup	Property Geology and Alteration Minerals
Figure:	Ontario, Canada
	UTM NAD83 Zone 15

0 1
kilometers



Legend

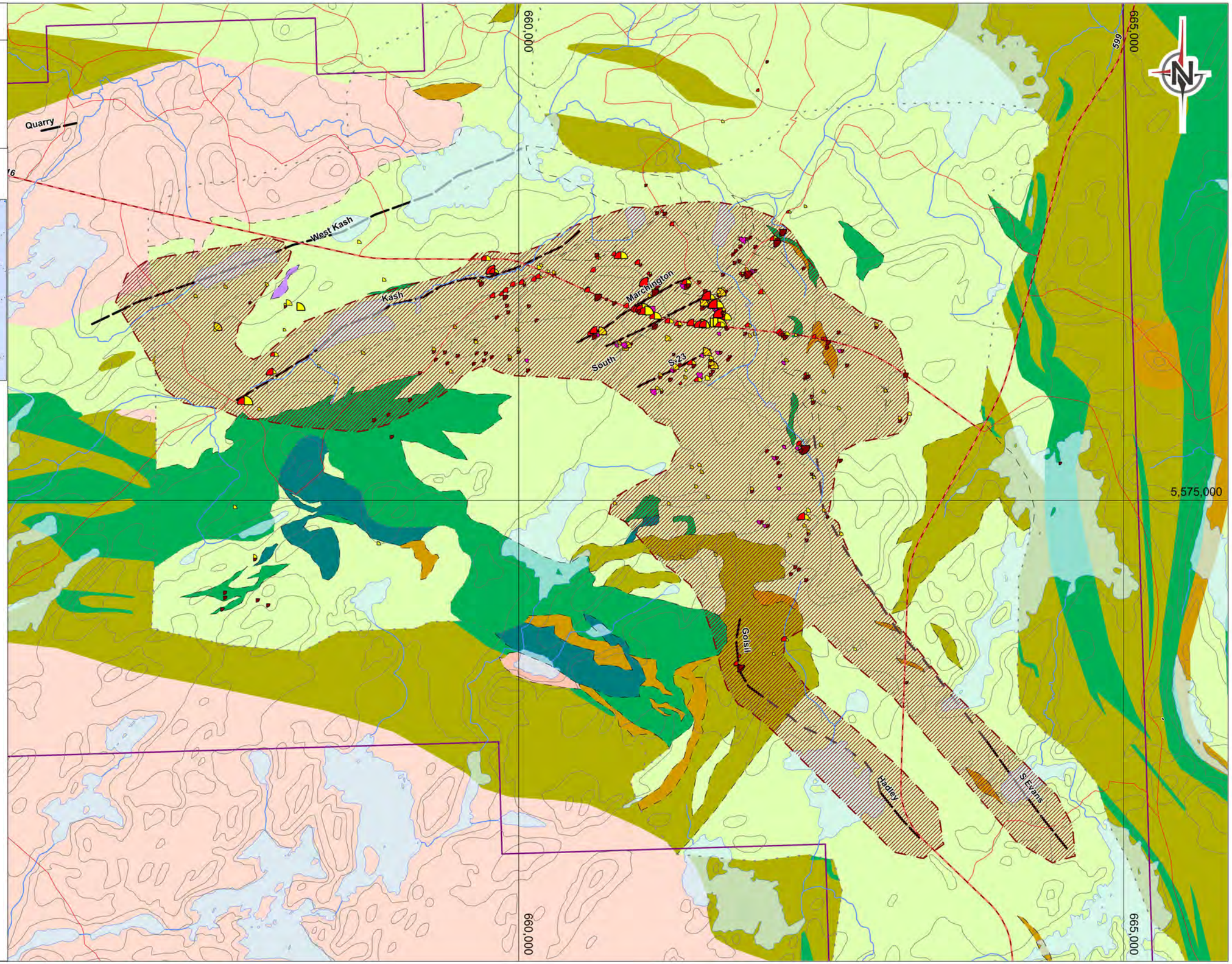
- Elevation contour
- Watercourse
- Waterbody
- Line
- Road
- Property outline

Property Geology

- Granite/granodiorite
- Mafic intrusive
- Metasedimentary rocks
- Felsic volcanic rocks
- Intermediate volcanic rocks
- Mafic volcanic rocks
- Alteration area
- VMS horizon
- Inferred VMS horizon

Silica	Garnet
Intense	Intense (>5%)
Strong	Strong (3-5%)
Moderate	Moderate (2-3%)
Weak	Weak (1-2%)
Trace	Trace

Aluminosilicate	Sericite
Strong	Intense (>50%)
Moderate	Strong (10-50%)
Weak	Moderate (5-10%)
	Weak (2-5%)
	Trace



COMMANDER RESOURCES LTD.

Date: Dec. 21, 2020	Sabin Property
Drafted by: S. Wetherup	Property Geology and Sodium Depletion
Figure:	Ontario, Canada
	UTM NAD83 Zone 15

0 1
kilometers

Legend

- Elevation contour
- Watercourse
- Waterbody
- Line
- Road
- Property outline

Property Geology

- Granite
- Mafic intrusive
- Metasedimentary rocks
- Felsic volcanic rocks
- Intermediate volcanic rocks
- Mafic volcanic rocks

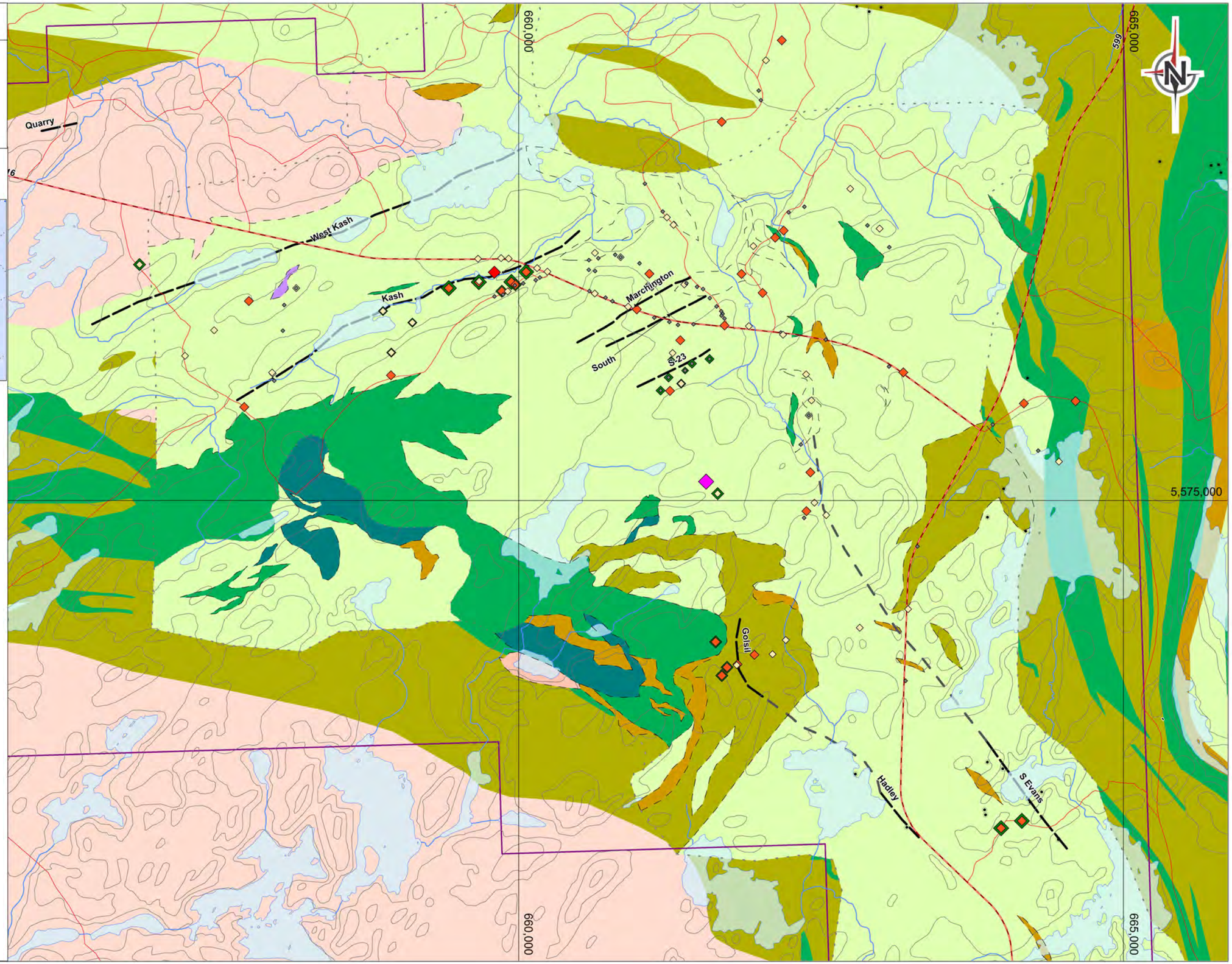
- VMS horizon
- Inferred VMS horizon

CCPI Alteration (% above)
(Normalized to Rock Type)

- 15 to 24.7
- 5 to 15
- 1 to 5
- 0.1 to 1

Na Depletion (%)

- 50 to 100
- 25 to 50
- 10 to 25
- 5 to 10
- 0 to 5



COMMANDER RESOURCES LTD.

Date: Dec. 21, 2020	Sabin Property Property Geology and Rock Samples Ontario, Canada
Drafted by: S. Wetherup	UTM NAD83 Zone 15
Figure:	

0 2

kilometers

Legend

- Sabin claims
- Road
- Highway
- Watercourse
- Waterbody

Property Geology

- Granite/granodiorite
- Mafic intrusive
- Metasedimentary rocks
- Felsic volcanic rocks
- Intermediate volcanic rocks
- Mafic volcanic rocks
- VMS horizon
- Inferred VMS horizon

Mineral Showings

- Galena
- Sphalerite
- Chalcopyrite

Rocks Au (ppb)

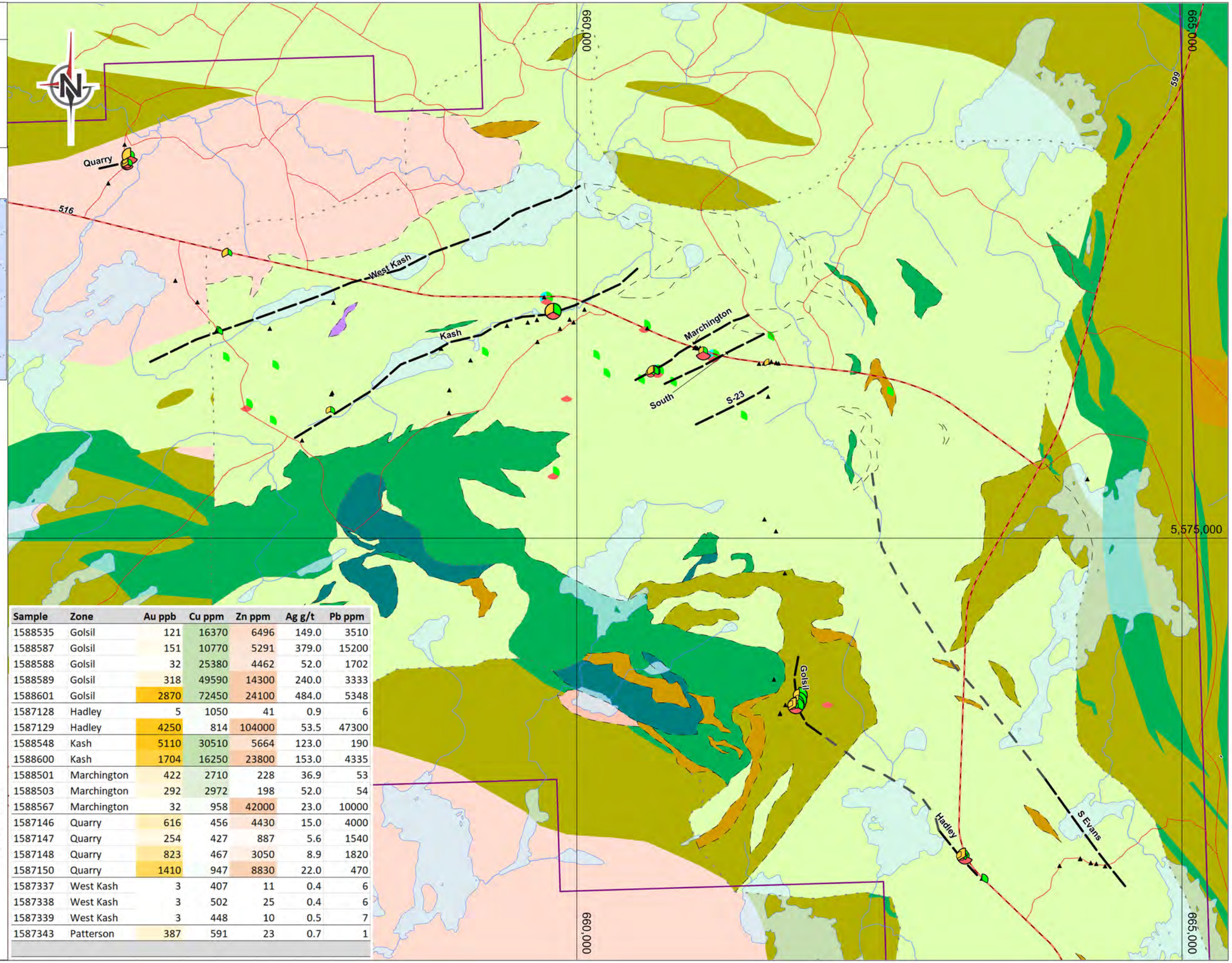
- 1,000 to 5,110
- 100 to 1,000
- 25 to 100
- 2 to 25

Rocks Cu (ppm)

- 5,000 to 72,450
- 1,000 to 5,000
- 250 to 1,000
- 1 to 250

Rocks Zn (ppm)

- 5,000 to 104,000
- 1,000 to 5,000
- 250 to 1,000
- 6 to 250



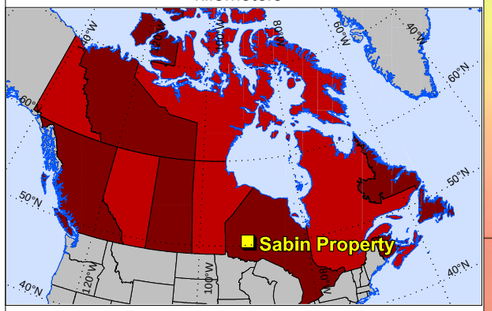
Sample	Zone	Au ppb	Cu ppm	Zn ppm	Ag g/t	Pb ppm
1588535	Golsil	121	16370	6496	149.0	3510
1588587	Golsil	151	10770	5291	379.0	15200
1588588	Golsil	32	25380	4462	52.0	1702
1588589	Golsil	318	49590	14300	240.0	3333
1588601	Golsil	2870	72450	24100	484.0	5348
1587128	Hadley	5	1050	41	0.9	6
1587129	Hadley	4250	814	104000	53.5	47300
1588548	Kash	5110	30510	5664	123.0	190
1588600	Kash	1704	16250	23800	153.0	4335
1588501	Marchington	422	2710	228	36.9	53
1588503	Marchington	292	2972	198	52.0	54
1588567	Marchington	32	958	42000	23.0	10000
1587146	Quarry	616	456	4430	15.0	4000
1587147	Quarry	254	427	887	5.6	1540
1587148	Quarry	823	467	3050	8.9	1820
1587150	Quarry	1410	947	8830	22.0	470
1587337	West Kash	3	407	11	0.4	6
1587338	West Kash	3	502	25	0.4	6
1587339	West Kash	3	448	10	0.5	7
1587343	Patterson	387	591	23	0.7	1

COMMANDER RESOURCES LTD.

Date: Dec. 21, 2019	Sabin Property Marchington DDH Plan and Total Magnetic Intensity Ontario, Canada UTM NAD83 Zone 15
Drafted by: S. Wetherup	
Figure:	

0 0.25

kilometers



Legend

- Sabin claims
- Road
- Highway
- Watercourse
- Waterbody
- Geology contact
- Mapping extents
- VMS horizon
- Line

HoleID

grade_eq

TraceShade

EOH

Drill Hole Assays Zn+Cu%

- 0 - 5000
- 5000 - 10000
- 10000 - 20000
- 20000 - 50000
- 50000 - 500000

DDH	length	Cu %	Zn %	Pb %	Ag g/t	Au g/t
SA005	6.0	1.11	3.5	1.2	62.9	NA
SA008	7.3	0.68	2.8	1.1	54.5	NA
SA015	5.9	0.30	2.3	1.7	56.5	NA
SA016	8.0	0.20	2.2	0.0	31.3	NA
SA017	5.9	0.22	0.6	0.0	19.0	NA
SA042	2.3	0.13	9.4	1.6	30.3	1.75
SA061	11.4	0.48	3.0	0.7	45.6	0.13
SA063	3.5	1.67	7.7	2.2	175.8	0.36
SA066	4.9	0.70	3.6	1.5	72.5	0.17
SA069	3.2	4.28	4.7	1.6	177.4	1.18
SAB-95-1	15.9	0.04	1.3	0.0	10.3	0.05

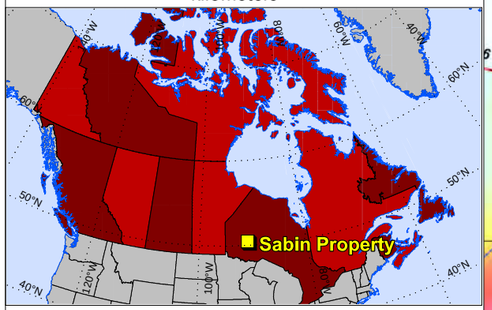
mm given at scale of 1:1000

COMMANDER RESOURCES LTD.

Date: Dec. 21, 2019	Sabin Property
Drafted by: S. Wetherup	Kash Zone DDH and
Figure:	Rho 100 m Conductivity
	Ontario, Canada
	UTM NAD83 Zone 15

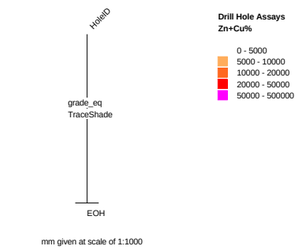
0 0.5

kilometers



Legend

- Sabin claims
- Road
- Highway
- Watercourse
- Waterbody
- VMS horizon
- Inferred VMS horizon



mm given at scale of 1:1000

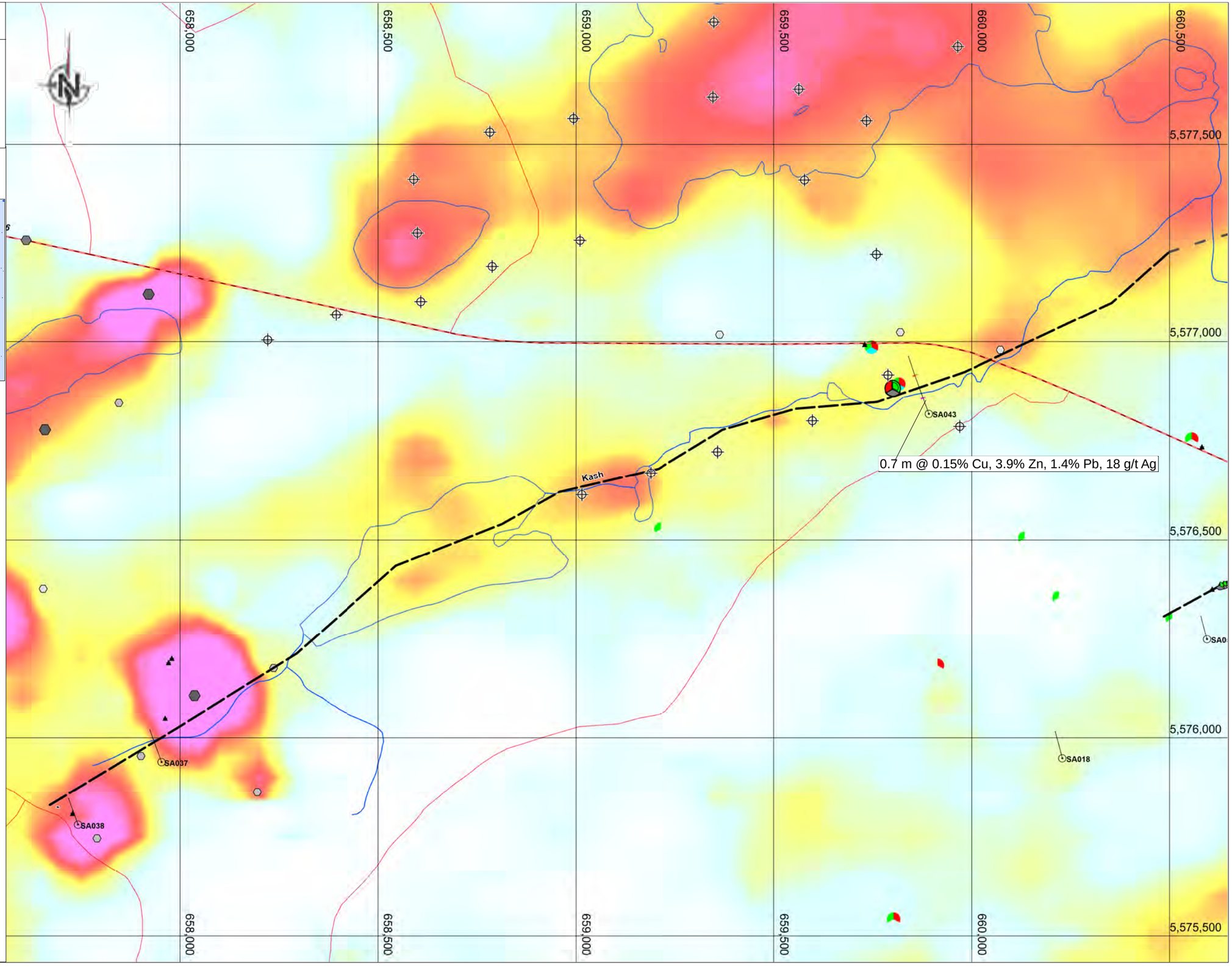
Mineral Showings

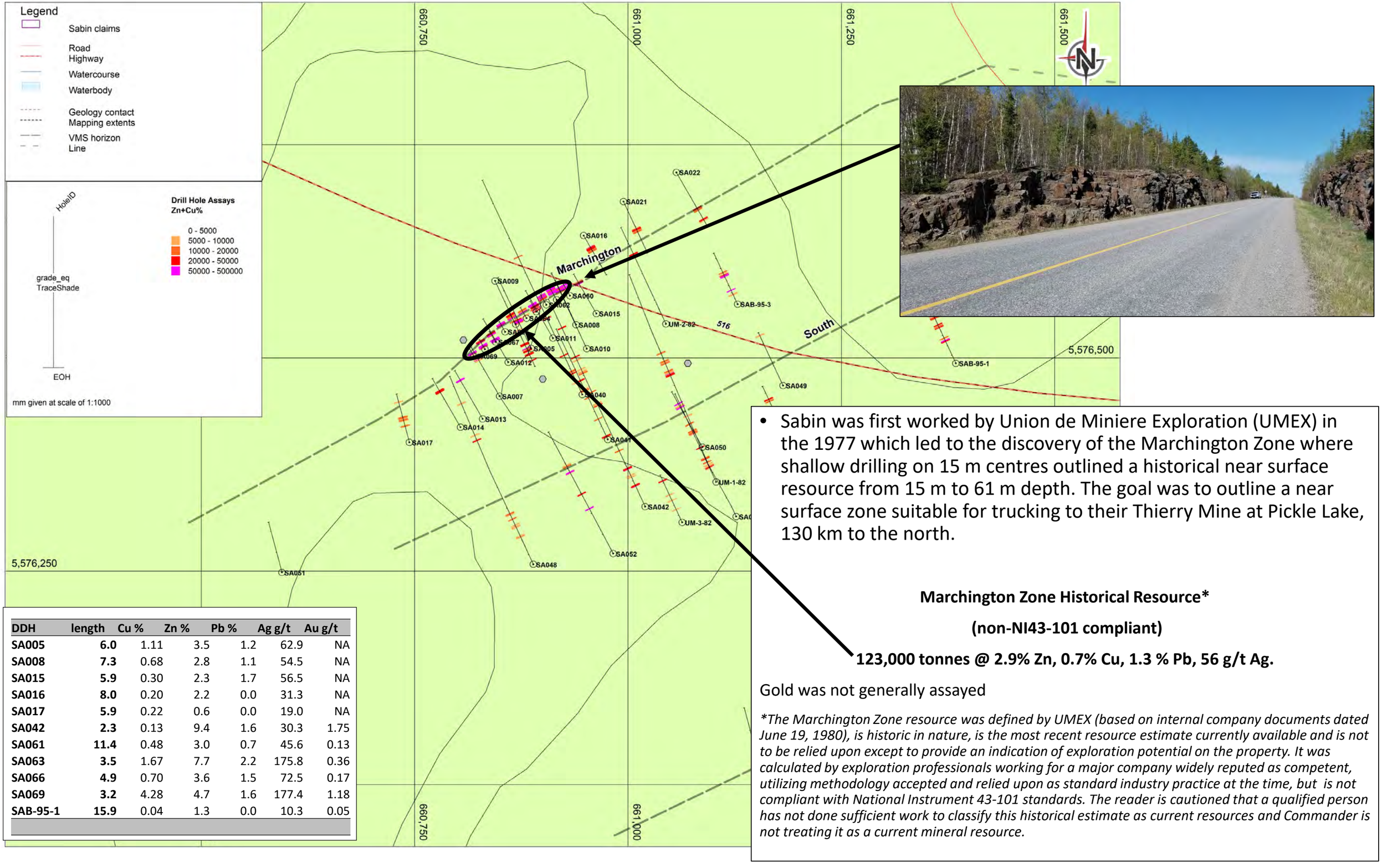
- Galena
- Sphalerite
- Chalcopyrite

Zn in Rocks (%)	Cu in Rocks (%)
2.0 - 4.2	2.0 - 7.2
1.0 - 2.0	1.0 - 2.0
0.5 - 1.0	0.1 - 1.0

Ag in Rocks (g/t)

- 100 - 484
- 25 - 100





DDH	length	Cu %	Zn %	Pb %	Ag g/t	Au g/t
SA005	**6.0**	1.11	3.5	1.2	62.9	NA
SA008	**7.3**	0.68	2.8	1.1	54.5	NA
SA015	**5.9**	0.30	2.3	1.7	56.5	NA
SA016	**8.0**	0.20	2.2	0.0	31.3	NA
SA017	**5.9**	0.22	0.6	0.0	19.0	NA
SA042	**2.3**	0.13	9.4	1.6	30.3	1.75
SA061	**11.4**	0.48	3.0	0.7	45.6	0.13
SA063	**3.5**	1.67	7.7	2.2	175.8	0.36
SA066	**4.9**	0.70	3.6	1.5	72.5	0.17
SA069	**3.2**	4.28	4.7	1.6	177.4	1.18
SAB-95-1	**15.9**	0.04	1.3	0.0	10.3	0.05

- Sabin was first worked by Union de Miniere Exploration (UMEX) in the 1977 which led to the discovery of the Marchington Zone where shallow drilling on 15 m centres outlined a historical near surface resource from 15 m to 61 m depth. The goal was to outline a near surface zone suitable for trucking to their Thierry Mine at Pickle Lake, 130 km to the north.

Marchington Zone Historical Resource*

(non-NI43-101 compliant)

123,000 tonnes @ 2.9% Zn, 0.7% Cu, 1.3 % Pb, 56 g/t Ag.

Gold was not generally assayed

**The Marchington Zone resource was defined by UMEX (based on internal company documents dated June 19, 1980), is historic in nature, is the most recent resource estimate currently available and is not to be relied upon except to provide an indication of exploration potential on the property. It was calculated by exploration professionals working for a major company widely reputed as competent, utilizing methodology accepted and relied upon as standard industry practice at the time, but is not compliant with National Instrument 43-101 standards. The reader is cautioned that a qualified person has not done sufficient work to classify this historical estimate as current resources and Commander is not treating it as a current mineral resource.*

Intermediate volcaniclastic rocks with abundant garnets (i.e. aluminous alteration)

Beaver pond with outcrops of garnetiferous sericite-biotite schist (intermediate volcaniclastic rocks)

Previously stripped outcrop in Golsil area

Golsil – chalcopyrite lenses in actinolite-staurolite-garnet schist

Golsil – actinolite-staurolite-garnet schist, with staurolite oriented 070, F2 axial planar

Intermediate volcaniclastic rocks with abundant garnets (i.e. aluminous alteration)

West Kash – quartz-sericite-pyrite schist

West Kash – massive pyrite-pyrrhotite lense in siliceous biotite schist

West Kash – Massive pyrite lens on recent logging road