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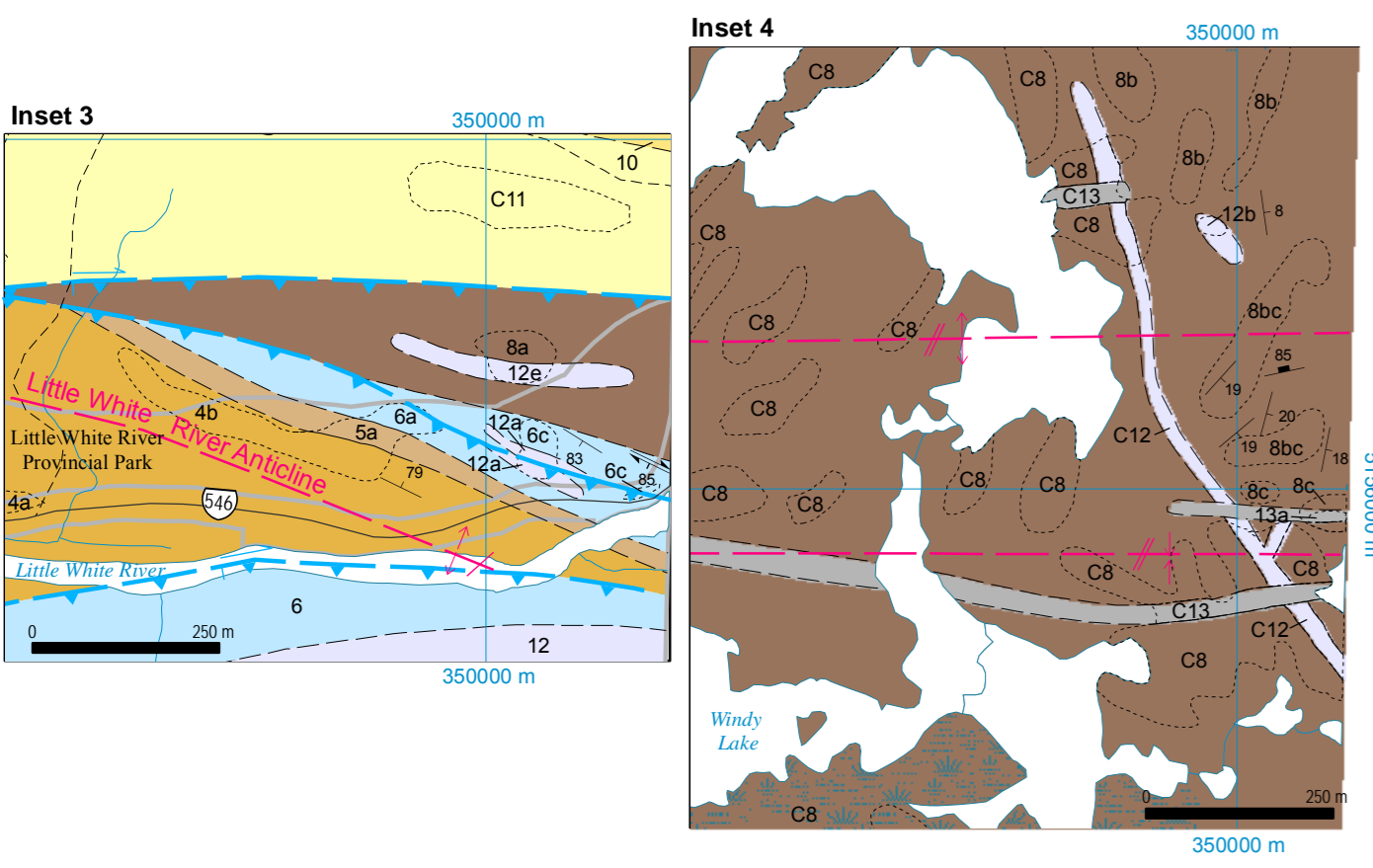
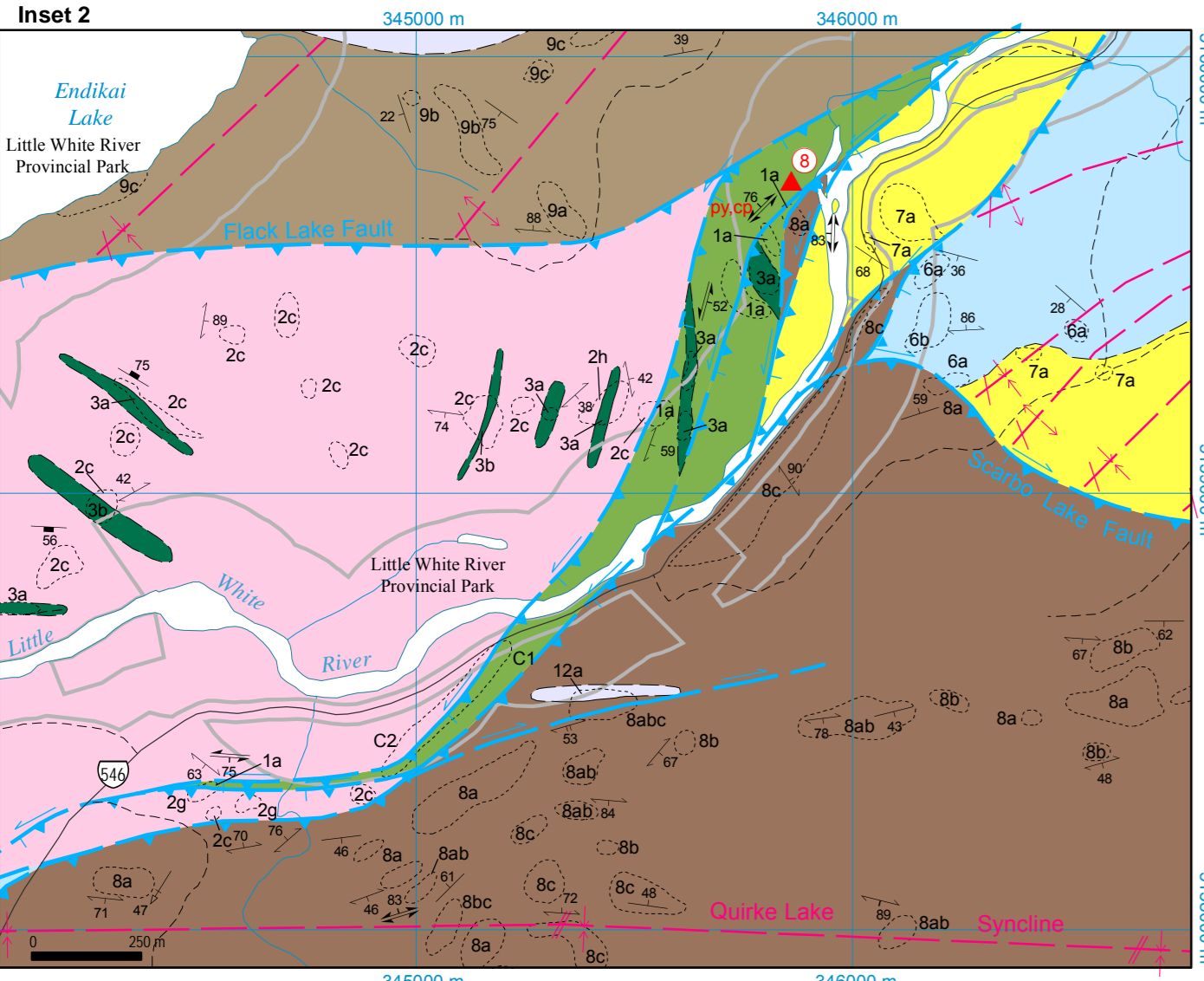
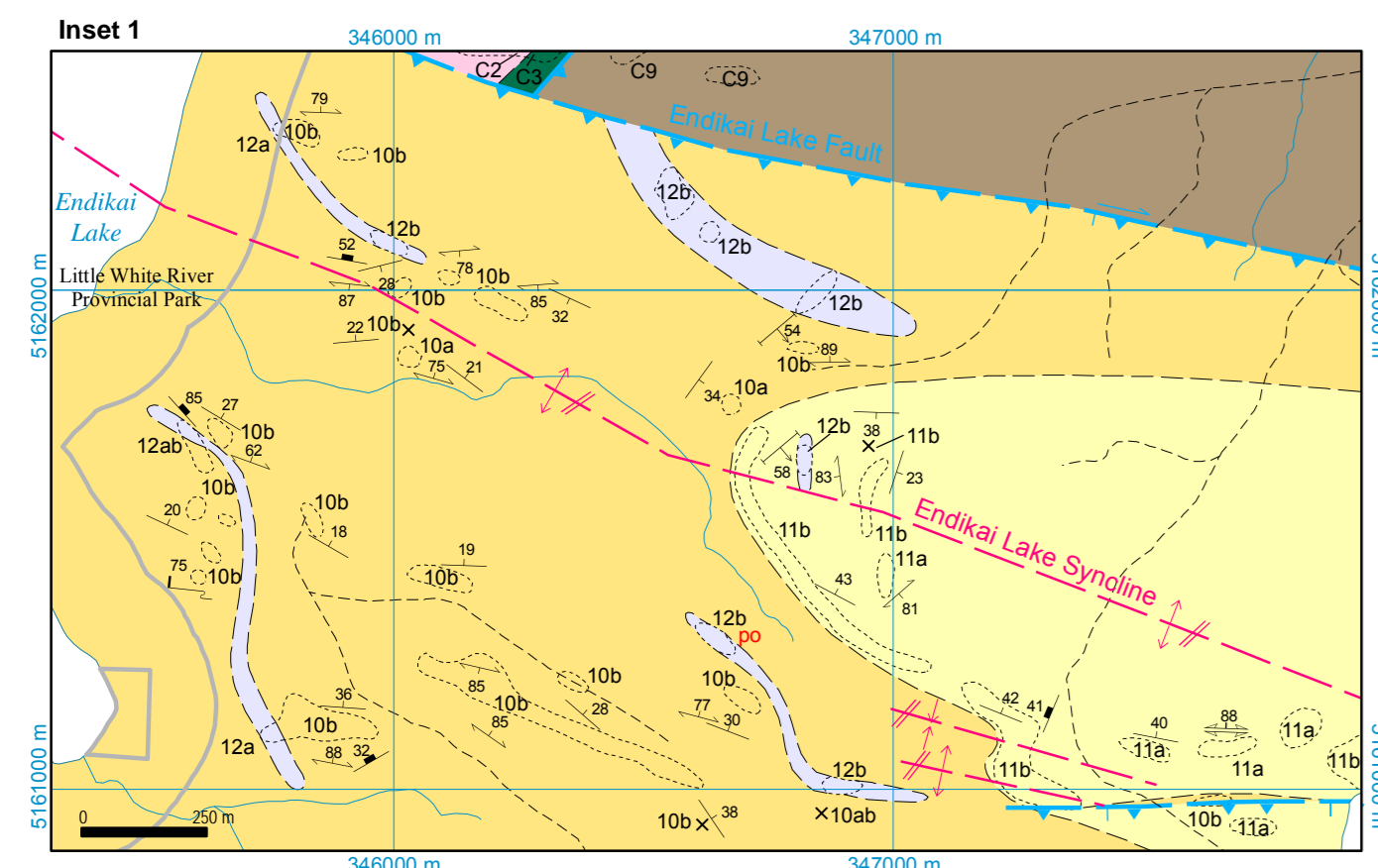
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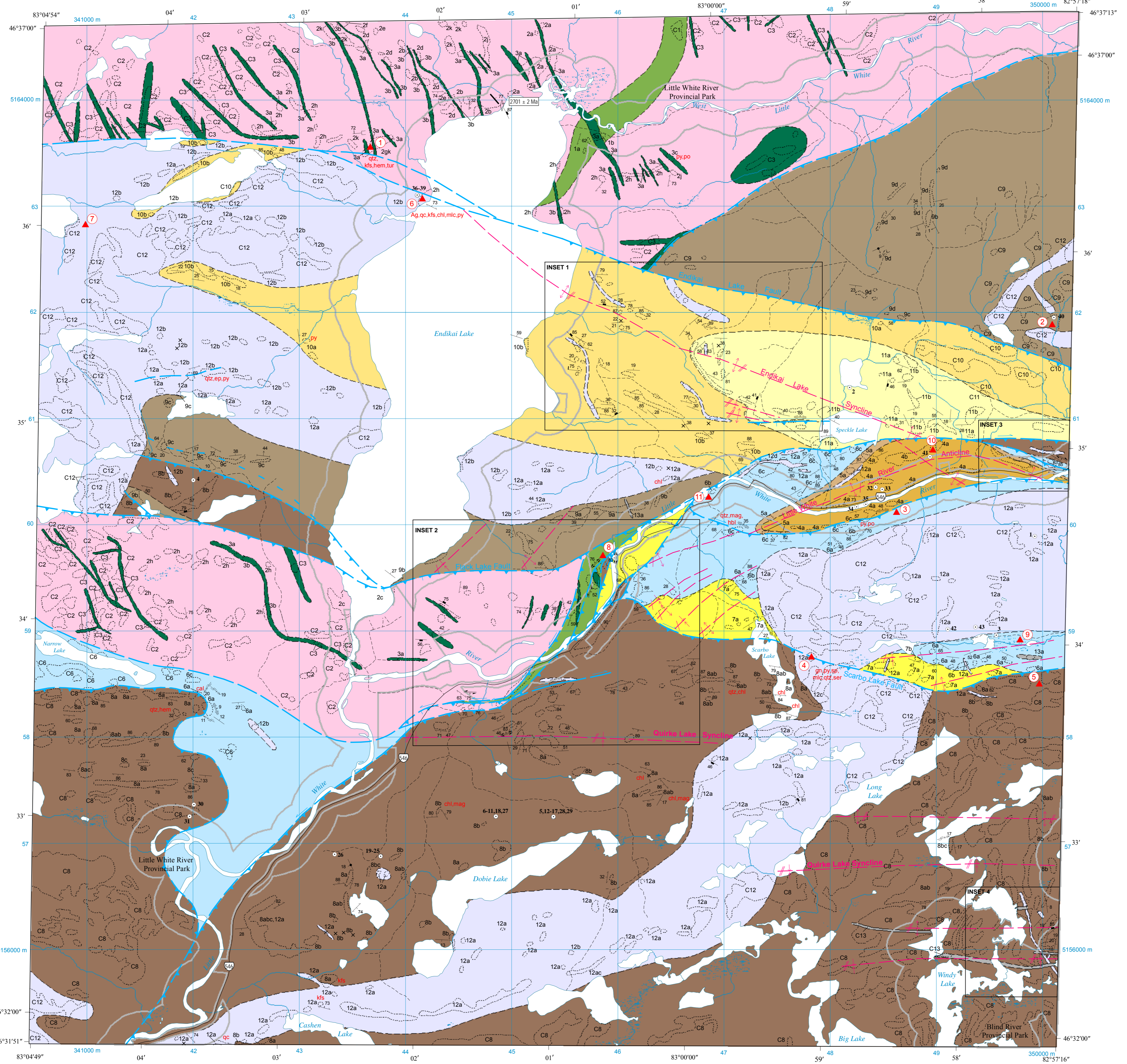
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**Table 1. Drill hole locations in Albanel Township.** All co-ordinates are in NAD 83, UTM Zone 17N, although they have been converted from drill-hole record NAD 27 co-ordinates from the Drill Hole Database (Ontario Geological Survey 2013). A dash in the "Mineralization" column means that no mineralization data was submitted for assessment.

DDH No.	Hole ID	Easting	Northing	Mineralization	Company
1	349927	5159891	-	-	A.E. Rosen
2	349927	5159891	-	-	Atlantic Richfield Co. / Triller Explorations
3	349927	5159891	-	-	Atlantic Richfield Co. / Triller Explorations
4	342002	5160421	-	-	Beaumont Yellowknife Mines Ltd.
5	345303	5157249	-	-	Canamsika Copper Mines Ltd.
6	344849	5157254	-	-	Canamsika Copper Mines Ltd.
7	344851	5157253	-	-	Canamsika Copper Mines Ltd.
8	344850	5157252	-	-	Canamsika Copper Mines Ltd.
9	344849	5157252	-	-	Canamsika Copper Mines Ltd.
10	344848	5157252	-	-	Canamsika Copper Mines Ltd.
11	344847	5157254	-	-	Canamsika Copper Mines Ltd.
12	345304	5157248	-	-	Canamsika Copper Mines Ltd.
13	345304	5157247	-	-	Canamsika Copper Mines Ltd.
14	345302	5157247	-	-	Canamsika Copper Mines Ltd.
15	345301	5157247	-	-	Canamsika Copper Mines Ltd.
16	345300	5157248	-	-	Canamsika Copper Mines Ltd.
17	345301	5157249	-	-	Canamsika Copper Mines Ltd.
18	344847	5157255	-	-	Canamsika Copper Mines Ltd.
19	343766	5156881	-	-	Canamsika Copper Mines Ltd.
20	343767	5156882	-	-	Canamsika Copper Mines Ltd.
21	343768	5156879	-	-	Canamsika Copper Mines Ltd.
22	343765	5156881	-	-	Canamsika Copper Mines Ltd.
23	343764	5156880	-	-	Canamsika Copper Mines Ltd.
24	343765	5156879	-	-	Canamsika Copper Mines Ltd.
25	343765	5156879	-	-	Canamsika Copper Mines Ltd.
26	343765	5156879	-	-	Canamsika Copper Mines Ltd.
27	344851	5157254	-	-	Canamsika Copper Mines Ltd.
28	345301	5157250	-	-	Canamsika Copper Mines Ltd.
29	345303	5157250	-	-	Canamsika Copper Mines Ltd.
30	342006	5157255	-	-	Falconbridge Nickel Mines Ltd.
31	341955	5157263	-	-	Falconbridge Nickel Mines Ltd.
32	344839	5160355	-	-	Fort Norman Expl. Inc.
33	348490	5160355	-	-	Fort Norman Expl. Inc.
34	348248	5160176	-	-	Fort Norman Expl. Inc.
35	348335	5160201	-	-	Fort Norman Expl. Inc.
36	344142	5163109	-	-	Midrim Mining Co. Ltd.
37	344143	5163107	-	-	Midrim Mining Co. Ltd.
38	344140	5163107	-	-	Midrim Mining Co. Ltd.
39	344140	5163110	-	-	Midrim Mining Co. Ltd.
40	350106	5161955	-	-	Standford Mines Ltd.
41	348920	5160936	-	-	The Hanna Mining Co.
42	349107	5159016	-	-	Triller Expl. Ltd.
43	349389	5159038	-	-	Triller Expl. Ltd.



**Table 2. Mineral occurrences in Albanel Township.** All co-ordinates are in NAD 83, UTM Zone 17N. "Map No." in table corresponds with numbers beside mineral occurrence symbols on the map face. This table is based on the Mineral Deposit Inventory (MDI) (Ontario Geological Survey 2011). In some cases, the UTM co-ordinates have been updated.

Map No.	Occurrence Name	Commodity	Easting (m)	Northing (m)	Status	MDI Number	Comments
1	TP-1	Cu	343824	5163525	Mineral Occurrence	MDI41J10S00009	-
2	Stanford	Cu,Au,Ag,Zn	350107	5161872	Mineral Occurrence	MDI41J10S00060	Trenching
3	Fort Norman EXPL-1	Cu,Co	348623	5160159	Discretionary Mineral Occurrence	MDI41J10S00017	Trenching
4	White River Lead	Pb,Bi,Cu,Ag,Zn	347825	5158754	Mineral Occurrence	MDI41J10S00059	Adit, pits, trenches
5	Fort Norman EXPL-3	Cu	349969	5158508	Discretionary Mineral Occurrence	MDI41J10S00018	Trenching
6	Endkai Lake	Cu	344191	5163109	Mineral Occurrence	MDI41J11SE00002	Trenching, striping
7	Regal Lake	Cu,Ba,Fe	340985	5162835	Discretionary Mineral Occurrence	MDI41J11SE00012	Trenching
8	Fort Norman EXPL-2	Cu,Ag	345839	5159667	Discretionary Mineral Occurrence	MDI41J11SE00011	-
9	Little White River	U	348992	5160732	Mineral Occurrence	MDI41J10S00062	Diamond-drill holes
10	Arco Triller #2	U	349788	5158922	Mineral Occurrence	MDI41J10S00052	Diamond-drill holes
11	Fort Norman	Cu	346906	5160341	Mineral Occurrence	MDI41J10S00058	Pit

**Table 3. Geochronological data for Albanel Township, from Kamo (2013).**

Sample Number	Rock Type	Easting	Northing	Age	Method
12D3L64	Granite	344908	5163950	2701 ± 2 Ma	U/Pb ID-TIMS

**Table 4. Geochronological data for Albanel Township, from Kamo (2013).**

Sample Number	Rock Type	Easting	Northing	Age	Method
12D3L64	Granite	344908	5163950	2701 ± 2 Ma	U/Pb ID-TIMS

**ABBREVIATIONS**

Ag	silver	mag	magnetite
ch	chalcite	mal	malachite
ch	chlorite	py	pyrrhotite
cp	chalcopyrite	py	pyrite
ep	epidote	qtz	quartz
gal	galena	qtz	quartz
hb	hematite	ser	sericite
hm	hematite	sp	sphalerite
kfs	potassium feldspar	tur	tourmaline

**REFERENCES**

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Lewis, D. 2012. Lithological and structural mapping of Albanel Township, Southern and Superior Provinces. In Summary of Field Work 2012, Ontario Geological Survey, Open File Report 6280, p.16-1 to 16-11.

Ontario Geological Survey 2011. Mineral Deposit Inventory—2011. Ontario Geological Survey, Mineral Deposit Inventory.

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**LEGEND**

**PHANEROZOIC**

**CENOZOIC**

QUATERNARY

RECENT  
Lake, stream and wetland deposits

PLEISTOCENE  
Clastic, glaciofluvial and glaciolacustrine deposits: sand, gravel, clay, silt

**UNCONFORMITY**

**PRECAMBRIAN**

**PROTEROZOIC**

**MESOPROTEROZOIC**

14 Mafic Intrusive Rocks (Sudbury Dike Swarm) (238 Ma)\*

**INTRUSIVE CONTACT**

**PALEOPROTEROZOIC**

13 Mafic Intrusive Rocks (unnamed gabbroic dikes and sills)\*  
13a Gabbro, medium grained, plagioclase phyrlic

**INTRUSIVE CONTACT**

12 Mafic to Intermediate Intrusive Rocks (Nipissing dikes and sills) (2219 to 2210 Ma)\*  
12a Gabbro, medium to coarse grained  
12b Gabbro, medium to coarse grained, magnetic, occasionally hornblende phyrlic  
12c Gabbro, fine to medium grained, weakly plagioclase phyrlic  
12d Gabbro, fine to medium grained, weakly potassium feldspar phyrlic  
12e Diorite, medium grained, alkali-feldspar phyrlic

**INTRUSIVE CONTACT**

**HUROMIAN SUPERGROUP (2450 to 2219 Ma)\***

**Cobalt Group**

11 Bar River Formation  
11a Sandstone, quartz arenite, fine to medium grained, well sorted, massive bedded  
11b Sandstone, quartz arenite, fine to medium grained, well sorted, planar to cross-bedded, occasionally rippled on bedding surfaces

10 Gordon Lake Formation  
10a Sandstone, containing quartz and feldspar, very fine to fine grained, well sorted, pink to red to green weathering, typically planar bedded although rarely massive or cross-bedded, occasionally rippled on bedding surfaces  
10b Siltstone, well sorted, but to red to green weathering, typically planar bedded although rarely massive or cross-bedded, occasionally rippled on bedding surfaces  
9c Sandstone, quartz arenite, medium grained, well sorted, typically massive bedded although may be planar to cross-bedded  
9d Sandstone, feldspathic wacke containing quartz > feldspar grains, medium to coarse grained, poorly to moderately sorted, subangular to angular grains, bedding is planar to cross-bedded

8 Gowanda Formation  
8a Oligomitic conglomerate, pink to grey sandy matrix, subrounded to rounded granitic clasts, matrix supported, massive to thickly bedded  
8b Sandstone, feldspathic arkose, fine to medium grained, well sorted, salmon to grey weathering, massive to thickly bedded  
8c Siltstone to mudstone, commonly thinly layered

**Quirke Lake Group**

7 Serpent Formation  
7a Sandstone, quartz arenite, fine to medium grained, well sorted, massive to indistinctly bedded  
7b Sandstone, quartz arenite, fine to medium grained, well sorted, planar bedded

6 Espanola Formation  
6a Calcareous siltstone, alternating grey and dark grey weathering, moderate to thickly bedded  
6b Calcareous siltstone, grey weathering, indistinctly bedded  
6c Limestone and siltstone, grey weathering, thinly interbedded

5 Bruce Formation  
5a Polymictic conglomerate, medium-grained sandy matrix, poorly sorted, subangular to rounded clasts, matrix bedded

**DISCONFORMITY or UNCONFORMITY**

Elliot Lake Group (2470 to 2450 Ma)\*

4 Matinenda Formation  
4a Sandstone, arkose, medium to coarse grained, poorly sorted, subangular grains, yellow-green weathering, massive to indistinctly bedded  
4b Sandstone with quartz-pebble conglomerate beds, arkose, medium to coarse grained, poorly sorted, subangular grains, yellow-green weathering

**UNCONFORMITY**

3 Mafic Intrusive Rocks (Matachewan dikes and sills) (2473 to 2446 Ma)\*  
3a Gabbro, fine to medium grained, amphibole bearing  
3b Gabbro, fine to medium grained, amphibole bearing, magnetic  
3c Gabbro, fine to medium grained, amphibole bearing, magnetic, plagioclase phyrlic

**ARCHEAN**

**NEOARCHEAN**

2 Felsic Intrusive Rocks (Ramsey-Algoma Granitoid Suite) (2670 to 2650 Ma)\*  
2a Alkali feldspar granite, medium grained, amphibole bearing  
2b Alkali feldspar granite, medium to coarse grained, biotite bearing  
2c Syenogranite, medium to coarse grained, amphibole bearing  
2d Granodiorite, medium to coarse grained, amphibole bearing  
2e Granodiorite, medium to coarse grained, biotite bearing  
2f Granodiorite, medium to coarse grained, biotite bearing, plagioclase phyrlic  
2g Quartz monzonite, medium to coarse grained, amphibole bearing  
2h Granite, medium to coarse grained, amphibole bearing  
2i Granite, medium to coarse grained, amphibole bearing, potassium feldspar phyrlic  
2j Granite, medium to coarse grained, biotite bearing

**INTRUSIVE CONTACT**

1 Mafic Metavolcanic Rocks  
1a Basalt, massive flow, fine grained to aphanitic  
1b Basalt, massive flow, fine grained to aphanitic groundmass, plagioclase phyrlic

**SYMBOLS**

Outcrop  
Area of bedrock outcrop  
Geological contact (interpreted, observed)  
Anticline, trend only, limbs dip in opposite directions, interpreted (1st generation)  
Anticline, trend only, limbs dip in opposite directions, interpreted (2nd generation)  
Syncline, trend only, limbs dip in opposite directions, interpreted (1st generation)  
Syncline, trend only, limbs dip in opposite directions, interpreted (2nd generation)  
Fault, projected beneath mapped units, trend only  
Fault, dextral horizontal component, unknown generation, trend only (interpreted, observed)  
Fault, unknown horizontal component, unknown generation, trend only (interpreted, observed)  
Thrust fault, dextral horizontal component, unknown generation (interpreted, observed)  
Thrust fault, sinistral horizontal component, unknown generation (interpreted, observed)  
Thrust fault, unknown horizontal component, unknown generation (interpreted, observed)  
Cross-bedding, inclined (with facing direction, no facing)  
Graded bedding, inclined (with facing direction, no facing)  
Bedding, no facing, inclined  
Compositional layering and parallel foliation, unknown generation, inclined  
Mineral foliation, inclined (1st, 2nd, unknown generation)  
Brittle fault, unknown horizontal displacement, unknown generation, inclined  
Ductile shear, dextral displacement, unknown generation, inclined  
Ductile shear, sinistral displacement, unknown generation, inclined  
Ductile shear, unknown horizontal displacement, unknown generation, inclined  
Dike, inclined  
Axial fold plane, Z-symmetry, unknown generation, inclined  
Fold axis lineation, S-symmetry, 1st generation  
Fold axis lineation, Z-symmetry, 1st generation (1st generation, 2nd generation)  
Mineral lineation, 1st generation  
Slidewedge lineation, unknown generation  
Joint, inclined  
Vein, unknown generation, inclined  
Diamond-drill hole (number keyed to Table 1)  
Mineral occurrence (number keyed to Table 2)  
Location of isotopic age determination, with age in Ma (see also Table 3)  
Provincial park boundary  
Roads, trails

**SOURCES OF INFORMATION**

Mapping conducted using UTM co-ordinates in North American Datum 1983 (NAD83), Zone 17N.

Digital base map information is derived from the Ontario Land Information Warehouse. Land information Ontario, Ontario Ministry of Natural Resources with modifications by D. Lewis.

Magnetic declination at the centre of the map area in 2013 was approximately 8°42'. Annual change is 1.1 minutes/year west.

Geology not tied to surveyed lines.

Metric conversion factor: 1 foot = 0.3048 m.

**CREDITS**

Geology by D. Lewis, 2012.  
Digital drafting by J. Webb and D. Lewis.  
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