NOTES A preliminary version of this map was published page-size together with a Current Research report, and as a 1:50,000 preliminary geological map based on data collected during the 2008 field season (see Hinchey and LaFlamme, 2009a, b).

The current map includes additional data collected during field visits in 2009 and 2010 by the author. The map also incorporates field data from Bailey (1981), making use of original field notes by Bailey and assistants M. Flannigan and A. Lalonde during 1977 and 1978. Previous geological maps of the area and region were used to provide a consistent structural and lithological interpretation of the region, especially in areas that had overgrown with vegetation since earlier maps were produced (see Clark, 1979a, b; Marten, 1977; Bailey, 1981; Gower *et al.*, 1982; MacDougall, 1988, Kerr, 1994; Hinchey, 2007; 2013). The map interpretation is augmented by examination of new petrographic thin-sections, stained rock slabs, detailed geochemical analysis, Sm-Nd isotopic analysis and U-Pb geochronology. The associated data will accompany the digital release of this map. The geochemical data is available in Hinchey (2016). The digital database also includes thin section and hand sample information from MacFarlane's B.Sc. (Hon) project

(MacFarlane, 2009) completed as part of this mapping project. Additionally, previous geochemical, isotopic

and geochronological studies are incorporated into the map (Kerr et al., 1992; Kerr, 1994, Hinchey and Rayner, 2008; Laflamme, 2011; Laflamme et al., 2013; Hinchey, 2014, 2016). U-Pb geochronological results (Kerr et al., 1992; Sparkes et al., 2010; Laflamme, 2011; Sparkes and Dunning, 2015; Hinchey, 2013; Hinchey, unpublished data, 2016; Hinchey and Davis, 2013 and Nd isotopic data (Kerr et al., 1992; Kerr, 1994; Laflamme, 2011) are shown. Locations of known mineral occurrences documented in the Mineral Occurrence Database (MODS) are plotted. Details of the mineral occurrences are outlined in the mineral occurrence database table. The unit names used throughout the map area are those assigned by previous authors (see Gower et al., 1982; Kerr, 1994; Ketchum et al., 2002); these terms are formally defined in the published literature.

database contains all the digital data collected in the field, as well as the subsequent analysis of samples, including photographs, geochemical and geochronological data. Not all structural data are plotted on the Individual outcrops are typically very complex and contain multiple rock types. The unit polygon typically represents the most abundant lithology in the area. The 'Unit designator' within the database will reflect this as well. The digital database contains the listing of all of the mapped rock types at any given outcrop.

Discrepancies may exist between the rock name given in the field and the rock name assigned to a thin

During field work, data stations were collected using a portable hand-held computer. The accompanying

section description, rock slab and/or geochemistry due to subsequent more refined analysis. The original field interpretations remain unchanged in the database; however, the unit designators and labels will reflect the overall interpretation of all the data. The main differences between this and that of Hinchey and Laflamme (2009b) are that detailed geochemical and geochronological analysis has further refined the geology of the Aillik Group<sup>(1)</sup>, as well as the extent and nature of the plutonic suites in the area. In the current map area, the contact between the Mesoarchean gneiss and the structurally overlying Aillik Group is not exposed. The contact between the Post Hill Group <sup>L2</sup> and the Aillik Group is obscured by a Mid-Paleoproterozoic intrusion; however, the increasing stain in the rocks towards the presumed contact is consistent with the interpretation that the contact is tectonic.

In addition, the Numok Intrusive Suite occurs in the Aillik domain in two areas; a southwesterly exposure to the west of Big River (this map area) and a northeasterly exposure surrounding the Adlavik Islands (Kerr, 1994; Hinchey and Laflamme, 2009a). These two intrusions were interpreted as representing disrupted halves of an originally continuous pluton that was offset by the Adlavik Brook fault zone (Kerr, 1994). The northeastern zone of the Numok Intrusive suite was dated at 1801 ± 2 Ma using U-Pb zircon geochronology (Kerr et al., 1992). A new U-Pb zircon age obtained for a sample from quartz monzonite from the southern Numok Intrusive Suite yielded an age of 1808 ± 2.3 Ma (MacFarlane, 2009). This new U-Pb geochronology indicates the southern Numok Intrusive Suite is at least 3 m.y. older and temporally distinct than the northern Numok Intrusive Suite, and therefore the two exposures are not part of the same pluton. However, they may represent separate plutons within the same genetically related suite. The interpretation that the northern and southern Numok Intrusive Suite originally formed a continuous pluton that was offset by the Adlavik Brook fault zone is no longer valid and, as such, this intrusion cannot be used to assess the displacement along this fault zone.

<sup>(1)</sup> This group was previously termed the Upper Aillik Group (see Marten, 1977), and subsequently renamed Aillik Group by Ketchum et al., 2002. (2) Previously termed the Lower Aillik Group (see Marten, 1977), and renamed based on distinct lithology and geochronological age by Ketchum et al., 2002 <sup>(3)</sup> U–Pb radiometric dates and geochronological information from A.M. Hinchey (unpublished data, 2016) <sup>(4)</sup> Sm–Nd isotopic data from A.M. Hinchey (unpublished data, 2016)

# Geology by A.M. Hinchey and C. Laflamme GIS/digital cartography by N.A. Stapleton

Base map in digital format published at Geomatics Canada, Earth Sciences Sector, Natural Resources Canada, Ottawa

ASTER GDEM is a product of METI and NASA. Elevations in feet above mean sea level. Contour Interval 50 feet

Universal Transverse Mercator projection (UTM) Zone 21

### North American Datum (NAD) 1927

Copies of this map may be obtained from the Geoscience Publication and Information Section, Geological Survey, Department of Natural Resources, Government of Newfoundland and Labrador, P.O. Box 8700, St. John's, NL, Canada A1B 4J6 [pub@gov.nl.ca] Departmental website: http://www.nr.gov.nl.ca/nr/

Geological Survey website: http://www.nr.gov.nl.ca/nr/mines/Geoscience/ This map is subject to revision and modifiaction. Symbols for bedding and selected minor structures are not plotted directly at the exposure location. Published 2016.

**Recommended Citation** 

Note

Disclaimer

REFERENCES

Hinchey A.M. and Rayner, N.

Hinchey, A.M, and LaFlamme, C. 2016: Geology of the Monkey Hill Area, Labrador (NTS 13J/14). Scale 1:50,000. Newfoundland and Labrador Department of Natural Resources, Geological Survey, Map 2016-15, Open File 013J/14/0308 This map supercedes Map 2009-29, Open File 013J/14/0272

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Bailey, D.G. 1981: Kaipokok Bay - Big River, Labrador. Newfoundland Department of Mines and Energy, Geological Survey Map 81-18. Clark, A.M.S. 1979a: Proterozoic deformation and igneous intrusions in part of the Makkovik Province, Labrador. Precambrian Geology, Volume 10, pages 95-114.

1979b: A reinterpretation of the stratigraphy and deformation of the Aillik Group, Makkovik, Labrador, Unpublished Ph.D. thesis, Memorial University of Newfoundland, St. John's, Newfoundland, 346 pages. Gower, C.F., Flanagan, M.J., Kerr, A. and Bailey, D.G. 1982: Geology of the Kaipokok Bay-Big River area, Central Mineral Belt, Labrador. Newfoundland Department of Mines and Energy, Mineral Development Division, Report 82-7, 77 pages.

Hinchey, A.M. 2007: The Paleoproterozoic metavolcanic, metasedimentary and igneous rocks of the Aillik Domain, Makkovik Province, Labrador (NTS Map Area 13O/03). *In* Current Research. Newfoundland Department of Natural Resources, Geological Survey, Report 07-1, pages 25-44. Hinchev, A.M

2014: Geochemical data from the Makkovik Area, Labrador (NTS 13O/03 and parts of NTS 13O/02). Government of Newfoundland and Labrador, Department of Natural Resources, Geological Survey, Open File 0130/0139. 41 pages. Hinchey, A.M. 2016: Geochemical data from the Monkey Hill area, Labrador (NTS 13J/14). Government of Newfoundland

and Labrador, Department of Natural Resources, Geological Survey, Open File 013J/14/0306, 49 pages. 2013: Geology of the Makkovik Area, Labrador (NTS 13O/03 and parts of NTS 13O/02). Scale 1:50,000. Government of Newfoundland and Labrador, Department of Natural Resources, Geological Survey, Map 2013-07, Open File 013O/0138

Hinchey, A.M. and Davis, W.J. 2013: New U–Pb zircon geochronology for the Measles Point Granite, Aillik Domain, Makkovik Province, Labrador (NTS map area 130/03) *In* Current Research. Newfoundland Department of Natural Resources Geological Survey, Report 13-1, pages 223-231. Hinchey, A.M. and LaFlamme, C. 2009a: The Paleoproterozoic volcano-sedimentary rocks of the Aillik Group and associated plutonic suites of

the Aillik domain, Makkovik Province, Labrador (NTS map area 13J/14). In Current Research, Newfoundland and Labrador Department of Natural Resources, Geological Survey, Report 09-1, pages 159-182. 2009b: Preliminary geology of the Monkey Hill map area (NTS 13J/14). Scale: 1:50 000. Government of Newfoundland and Labrador, Department of Natural Resources, Geological Survey. Map 2009-29, Open File 013J/14/0272

2008: Timing constraints on the Paleoproterozoic, bimodal metavolcanic rocks of the Aillik Group, Aillik domain, Makkovik Province, Labrador. In GAC-MAC 2008, Abstract Volume 33. Kerr, A. 1989: Early Proterozoic granitoid magmatism and crustal evolution in the Makkovik Province of Labrador: A geochemical and isotopic study. Unpublished Ph.D. thesis, Memorial University of Newfoundland, St. John's,

Newfoundland, 515 pages. Kerr, A., Krogh, T.E., Corfu, F., Schärer, U., Gandhi, S.S. and Kwok, Y.Y. 1992: Episodic Early Proterozoic granitoid plutonism in the Makkovik Province, Labrador: U-Pb geochronological data and geological implications. Canadian Journal of Earth Sciences, Volume 29, pages

Kerr, A. 1994: Early Proterozoic magmatic suites of the eastern Central Mineral Belt (Makkovik Province), Labrador: Geology, geochemistry and mineral potential. Newfoundland Department of Mines and Energy, Geological Survey, Report 94-3, 149 pages. Ketchum, J.W.F., Culshaw, N.G. and Barr, S.M. 2002: Anatomy and orogenic history of a Paleoproterozoic accretionary belt: the Makkovik Province,

2011: Lithology, geochemistry and geochronology of the Aillik Group and foliated granitic intrusions: implications on the formation and early evolution of the Aillik domain, Makkovik Province, Labrador. Unpublished M.Sc. thesis, Memorial University of Newfoundland, St. John's, Newfoundland. 253 pages LaFlamme, C., Sylvestera, P.J., Hinchey, A.M., and Davis, W.J.

Labrador, Canada. Canadian Journal of Earth Sciences, Volume 39, pages 711-730.

2013: U-Pb age and Hf-isotope geochemistry of zircon from felsic volcanic rocks of the Paleoproterozoic Aillik Group, Makkovik Province, Labrador. Precambrian Research. Volume 224, pages 129–142. MacDougall, C.S. 1988: A metallogenic study of polymetallic, granophile mineralization within the Early Proterozoic Upper Aillik Group, Round Pond area, Central Mineral Belt, Labrador. Unpublished MSc thesis, Memorial University of Newfoundland, St John's, Newfoundland, 271 pages. MacFarlane, A. 2009: A petrographic, geochemical, and geochronological study of the southern Numok Intrusive Suite, Labrador. Unpublished B.Sc. thesis, Memorial University of Newfoundland, St. John's, Newfoundland. 80

Marten, B.E. 1977: The relationship between the Aillik Group and the Hopedale gneiss, Kaipokok Bay, Labrador. Unpublished Ph.D. thesis, Memorial University of Newfoundland, St. John's, Newfoundland, 389 pages. Sparkes, G.W., Dunning, G.R. and McNicoll, V.J. 2010: New U–Pb age constraints and potential implications for the genesis of the Kitts uranium deposit, Central mineral Belt, Labrador. In Current Research. Newfoundland and Labrador Department of Natural Resources, Geological Survey, Report 10-1, pages 93-109. Sparkes, G.W., and Dunning, G.R.

2015: New U-Pb age constraints on the development of uranium mineralization within the Central Mineral Belt of Labrador. In Current Research, Newfoundland and Labrador Department of Natural Resources,

Geological Survey, Report 15-1, pages 105-123.



ample Number talization Age Data Sources

Sample No	
08AH290A3	
08AH309A3	
08AH310A3	
08AH312A03	
08CL198A3	
08CL199A3	
08AH311A03	
GS-08-287	
GS-07-170	
GS-07-298	





Mineral Analyzed z - zircon t - titanite a - allanite p - perovskite

1 - weighted me c - concordant c - near-concordan .i. - upper intercept - lower intercept

lerpretation





MAP 2016-15 OPEN FILE 013J/14/0308

**GEOLOGY OF THE MONKEY HILL AREA, LABRADOR** (NTS 13J/14) Scale 1:50 000

> 4 Kilometres

time (t) - assumed or known age of rock (Ma) Depleted Mantle model Ages T <sub>(DM)</sub> Sm-Nd Isotopic Data Reference	es							
Reference	Samples							
A.M. Hinchey, unpublished <sup>(4)</sup>	08AH059A02	08AH166A02	08AH210A02	08AH233A02	08AH263A02	08AH268A02	08AH289A02	08AH290A02
	08AH296A02	08AH308A02	08AH309A02	08AH310A02	08AH311A02	08AH312A02	08CL075A02	08CL149A02
Kerr, 1989	241286	241058	241060	241332	241338	241538		
LaFlamme, 2011	08CL099B02	08CL107A02	08CL152B02	08CL159A02	08CL167A02	08CL195A02	08CL197A02	08CL198A02
	08CL199A02	08CL266A02	08CL268A02					

Sm-Nd Isotopic Data

 $\epsilon Nd_{(t)}$  - epsilon value at time (t

	Lt	EGEND	
EISTO	CENE – RECENT		
Qfgl	Fluvioglacial and glacial gravels and sand		
	EOPROTEROZOIC ( $P_3$ ca. 1800–1640 Ma)		
AGE (Prob	ably related to ca. 1650–1635 Ma magmatism)		
<sub>3b</sub> gx	Medium- to coarse-grained, biotite-bearing gabbro,	, non-foliated, ma	issive
₃b <b>gdx</b>	Medium- to coarse-grained, biotite-hornblende equivalent of Numok Intrusive Suite or fine-grained	granodiorite, m Big River Granit	assive, undeformed, locally plagioclase porphyritic (possible e)
LATI	E LABRADORIAN (P <sub>3b</sub> ca. 1650–1640 Ma)		
	INTRUSIVE ROCKS Unclassified units - no stratigraphic order impl	lied	
	Monkey Hill Intrusive Suite (ca. 1640 Ma)		
P <sub>3b</sub> gd	Little Monkey Hill granite: Medium-grained, leucocr Fine- to medium-grained, locally plagioclase poroh	atic granodiorite	to monzodiorite
<sub>3b</sub> mr	Round Pond granite	,	
₂⊧app	Coarse- to medium-grained leucogabbro, gabbro a	and melanogabb	ro, part of the 'main body' of the Adlavik Intrusive Suite. A U–Pb
. apo	Fine- to medium-grained, biotite-bearing gabbro	to locally leucog	jabbro, massive, occurs as xenoliths in Big River Granite and
	Numok Intrusive Suite, part of the Big River Valley	area of the Adlav	ik Intrusive Suite
EAR	$LY LATE PALEOPROTEROZOIC (P_{2c} ca. 18)$	00 Ma)	
	INTRUSIVE ROCKS		
	Freshsteak granitoid	rtz monzonite to	monzodiorite minor granodiorite massive leucocratic locally
2cmd	plagioclase porphyritic		
, arb	Coarse-grained, magnetite- and fluorite-bearing,	biotite-hornblen	de monzogranite, K-feldspar phenocrysts preserve occasional
<sup>2</sup> cgra	pseudo-rapakivi texture, locally slightly foliated Coarse- to very coarse-grained, magnetite-bearin svenite. K-feldspar phenocrysts preserve occasion	ng, hornblende- al pseudo-rapaki	biotite monzogranite to syenogranite, locally varying to quartz
	Lanceground Intrusive Suite		
o <sub>2c</sub> mz	Pistol Lake granite: pink to buff, medium- to coar	se-grained, horn	blende monzogranite to quartz syenite, minor syenogranite and
	Kennedy Mountain Intrusive Suite (Units $P_{2c}clg\text{-}$	–P <sub>2c</sub> mgx <i>ca.</i> 180	0 Ma)
<sub>2c</sub> mgx	Medium- to coarse-grained, biotite monzogranite porphyritic: likely southern extension of the Narrow	and minor grand s granite.	diorite, locally foliated, often fluorite-bearing, locally plagioclase
P <sub>2c</sub> clg	hornblende monzogranite to granodiorite, locally fo	liated	i nuonte-bearing, biotite monzogranite, minor syenogranite, and
	Long Island Quartz Monzonite ( <i>ca.</i> 1802 Ma)		
2 <sub>2c</sub> qm	Strongly to moderately foliated, locally porphyntic, g	granodionite, mor	
	Medium- to coarse-grained, massive, biotite-horr	nblende quartz r	nonzonite to monzonite, locally porphyritic (K-feldspar), weakly
<sub>2c</sub> mzx	zircon date of 1808 <u>+</u> 2.3 Ma	ue to presence o	nite non-foliated to weakly foliated locally preserved relict
209112	clinopyroxene and fayalite		
LATI	E <i>MID PALEOPROTEROZOIC (P<sub>26</sub> ca. 1873–</i> INTRUSIVE ROCKS	-1850 Ma)	
P <sub>2h</sub> gr	Foliated, recrystallized, fine- to medium-grained,	quartz +/- felds	spar-porphyritic granite; interpreted as synvolcanic, hypabyssal
	SUPRACRUSTAL ROCKS		
	(Comprises the deformed and metamorphose Fine-grained guartz-felsic tuff, porphyritic to equiar	d Aillik Group anular metarhvol	<sup>(1)</sup> <i>ca.</i> 1885–1850 Ma)
o <sub>2b</sub> vpr	comprising several temporally distinct flows that a this unit range from <i>ca</i> . 1864 – 1855 Ma	re structurally re	peated throughout the map area. Several U-Pb zircon dates for
P <sub>2b</sub> vft	Banded felsic metatuff, includes minor lapilli me comprises several temporally distinct ash flows ran	etatuff, tuffaceou	s metasandstone, metarhyolite and tuff metabreccia; this unit <i>ca</i> . 1863 – 1850 Ma
	Moderately deformed pillow metabasalt; this unit i signatures relative to chondrite	s characterized I	by geochemical patterns that have flat rare-earth-element (REE)
0.000 A	Fine- to medium-grained, strongly deformed, met	abasalt (amphib	olite) and minor mafic metatuff; locally contains calcite-epidote
	Non- to weakly bedded, tuffaceous to volcaniclastic	c metasandstone	: includes minor felsic metatuff and metarbyolite flows
- 2b <b>v 3</b>	Polymictic matrix-supported conglomerate contain	ning poorly sorte	d subrounded clasts of rhyolite, foliated and unfoliated granite.
2bSC	mafic tuff, sandstone, marble, basalt, mafic tuff and	l quartzite	or arou aroon nink matagiltations and minor markles primary
2bsp	structures are locally preserved		
P <sub>2b</sub> vb	Fine- to medium-grained, strongly deformed, meta nodules; this unit characteristically has geochemi earth-elements (HREE) when normalized to chond	abasalt (amphibo cal patterns that rite	lite) and minor matic metatuff, locally containing calcite-epidote show enriched light-rare-earth-elements (LREE) to heavy-rare-
P <sub>2b</sub> vf	Non- to weakly bedded, tuffaceous to volcanicla	stic metasandst	one; includes minor metarhyolite flows, banded felsic tuff and
Pant	Banded felsic tuff, includes minor lapilli metatuff, m	etatuffaceous sa	ndstone and metarhyolite
L 26 V C	Fine-grained feldspar, porphyritic to equigranular, lo	ocally flow-bande	d metarhyolite and associated with minor felsic metatuff; this unit
P <sub>2b</sub> vr	comprises several temporally distinct flows that an 1872 Ma	e structurally rep	peated; the unit has U-Pb zircon dates ranging from <i>ca</i> . 1883 -
2 <sub>2b</sub> SS	Thin-bedded to laminated metasandstone interbed	ded with lesser g	rey-green-pink metasiltstone; minor marble
<sup>D</sup> 2h <b>SQ</b>	Polymictic metaconglomerate and metatuffaceou sandstone, clasts are poorly sorted, subrounded a	s conglomerate, and are dominat	interbedded with 2- to 10- m thick beds of metatuffaceous ly granite, tuffaceous sandstone, amphibolite, rhyolite, quartzite,
	marble and mafic tuff		
<sup>r</sup> źb <b>Զ</b>	Orthoquartzite, massive to weakly bedded, contain	s disseminated s	uipnides (pyrite, molybdenite)
P <sub>2b</sub> bif	Banded iron formation, comprising thin-banded (2 minor semipelite layers	to 15 mm thick)	magnetite-hematite layers interbedded with quartzite layers and
P <sub>2b</sub> pl	Semipelite–quartzite (metamorphosed thin-bedded rusty sulphide-rich horizons; unit appears similar to	I mudstone/sands the Post Hill Gro	stone), thin-bedded (3 to 10 cm thick), isoclinally folded, contains
MID	PALEOPROTEROZOIC (P <sub>2a</sub> ca. 2100 –1882	Ma)	
	NTRUSIVE ROCKS	eared biotite or	anite: to the south of the man area, in the vicinity of the Kitts
2 <sub>2a</sub> gr	deposit, the unit has a U–Pb zircon date of 1882 $\pm$	3 Ma	and the second
P <sub>2a</sub> rg	Metagabbro that has a U–Pb zircon date of <i>ca.</i> 201	18 Ma	iphiboles are tremonite of actinoitie, includes part of the Kitts
:	SUPRACRUSTAL ROCKS (includes part of the Post Hill Group <sup>(2)</sup> )		
	Fine-grained amphibolite (metabasalt), preserves interpreted as part of the Mafic Pillow Lava unit,	relict pillows inte which is part of	rlayered with minor psammite, pelite, argilite and orthoquartzite; the Kitts Pillow Lava Formation; comprises part of the Post Hill
ESOAF	Group		
Mman	Locally migmatitic, highly strained, quartzofeldspat	hic orthogneiss;	2 km to the southeast of Swell Lake; this unit has a U–Pb zircon
(2) See NC	date of 2813 +16/-13 Ma		
		SYM	BOLS
ontact (de	fined, approximate, assumed)		Dyke / Sill with dip
ult (appro	oximate, assumed)	1.11.11.11	Flow contact (top unknown)
extral faul	t (approximate)		Foliation or cleavage (generation unknown, 1st)
nistral fau nistral fau	It (approximate)		Igneous layering (top unknown)

Antiform (approximate) ....

Synform (approximate) ....

Antiform, showing plunge (approximate) .....

Synform, showing plunge (approximate) .....

Fold axial plane (generation unknown) ....

Fold axis (generation unknown) ......

# 

## MINERAL OCCURRENCES

NTS 1:250 000	NTS 1: 50 000	Mineral Sccurrence		TM I, NAD 27)	Name	Alternate Name	Commodity	Status
Easting Northing								
13J	14	U 013	361130	6091250	Showing No 13	Shoal Lake	U	Indication
13J	14	U 025	365430	6086600	Showings No 12 & No 21	Winter Lake	U	Indication
13J	14	U 027	366230	6087360	Showing No 22	Bernard Lake	U	Indication
13J	14	U 031	366680	6087670	South Bernard Lake		U	Indication
13J	14	U 007	356370	6088280	Squirrel Lake		U	Indication
13J	14	U 033	361250	6084660	North Adlavik Brook No 1		U	
13J	14	U 014	361700	6091780	Showing No 15	Shoal Lake	U	Indication
13J	14	U 017	363100	6093760	Showing No 17		U	Showing
13J	14	U 023	364620	6086750	Showing No 11	Winter Lake	U, Cu, Zn, Ag	Indication
13J	14	U 020	362240	6088800	Showing No 3	Marsha Lake No 4	U	Indication
13J	14	U 028	366330	6088210	Showing No 20	Bernard Lake	U	Indication
13J	14	U 010	359730	6090450	West Shoal Lake No 2		U	Indication
13J	14	U 011	360070	6091440	Showing No 4	Shoal Lake	U	Indication
13J	14	U 034	361510	6082710	North Adlavik Brook No 2		U	Indication
13J	14	U 030	365540	6089050	Bernard Lake New Showing No 1		U	Indication
13J	14	U 026	366150	6087140	Showing No 5		U	Showing
13J	14	U 037	340894	6085406	JJ Uranium		U	Showing
13J	14	U 006	343240	6082150	Nyman's Showing	Freshsteak Lake	U	Showing
13J	14	U 005	343880	6088230	West Draper Lake		U	Indication
13J	14	U 035	350050	6077975	Adlavik Brook South		U	Showing
13J	14	U 004	349210	6091520	Present Lake		U, Mo	Showing
13J	14	U 008	358680	6090840	Showing No 1/ No 2 (Pitch Lake)	Pitch Lake	U	Showing
13J	14	U 009	359460	6090840	West Shoal Lake No 1		U	Indication
13J	14	Mo 001	360900	6096610	Monkey Hill		Mo, Cu, U, Fl	Showing
13J	14	U 015	361480	6092140	Showing No 24	Falls Lake	U	Showing
13J	14	U 016	362450	6093150	Showing No 16	Falls Lake	U	Showing
13J	14	U 029	363380	6087930	Showing No 10	Marsha Lake	U	Indication
13J	14	U 032	364840	6085800	West Winter Lake		U	Indication
13J	14	U 003	340490	6095880	Kitts South		U	Showing
13J	14	Pb 001	353480	6085810	Oxbow Lake		Pb	Indication
13J	14	Mo 002	361640	6095600	North Falls Lake		Мо	Indication
13J	14	U 018	363170	6095230	Showing No 18	Falls Lake	U	Indication
13J	14	U 021	363210	6090250	Showing No 9	Marsha Lake	U	Indication
13J	14	U 019	364160	6095260	Showing No 14	Falls Lake	U	Indication
13J	14	U 022	364290	6086680	Showing No 7	Winter Lake	U, Cu	Showing
13J	14	U 002	340850	6097400	Kitts "C" Zone		U	Prospect
13J	14	U 001	340900	6097160	Kitts		U	Developed Prospect
13J	14	U 036	343100	6085877	Big Bear Uranium		U	Showing
13J	14	U 012	360880	6095300	Showing No 19		U	Indication
13J	14	U 024	365710	6086450	Showing No 6	Winter Lake	U	Indication

Data from the Mineral Occurrence Data System (MODS) of the GSNL

### NEW MINERAL INDICATIONS

NTS 1:250 000	NTS NTS Sample		UTM (Zone 21, NAD 27)		Unit	Mineral	Notes	Status
			Easting	Northing				
13J	14	08AH016Y01	357248.09	6092625.94	host rock	U	up to 2200 cps uranium	Indication
13J	14	08AH043Y01	355714.33	6084365.15	host rock	U	cps -370	Indication
13J	14	08AH068Y01	353016.34	6095302.15	host rock	Mo		Indication
13J	14	08AH069Y01	359160.10	6087045.90	intrusion	Pyr, Mo		Indication
13J	14	08AH077Y01	358771.70	6094288.34	intrusion	U	in granite pegmatite dyke	Indication
13J	14	08AH102Y01	348305.19	6084313.73	intrusion	U	613 cps	Indication
13J	14	08AH105Y01	350622.11	6083695.21	intrusion	U	scintillometer =660 cps	Indication
13J	14	08AH115Y01	365711.71	6090072.64	intrusion	U	400 cps	Indication
13J	14	08AH123Y01	362571.21	6095337.69	host rock	U, Pyr		Indication
13J	14	08AH131Y01	361517.36	6090004.60	host rock	U	380 cps	Indication
13J	14	08AH133Y01	344810.63	6087238.28	intrusion	U	370 cps	Indication
13J	14	08AH134Y01	344124.32	6086917.35	intrusion	U	670 cps	Indication
13J	14	08AH143Y01	349625.58	6091871.49	host rock	U	5100 cps	Indication
13J	14	08AH143Y02	349625.58	6091871.49	host rock	Mo		Indication
13J	14	08AH149Y01	345205.99	6089756.77	intrusion	U	1300 cps in pegmatite	Indication
13J	14	08AH154Y01	343957.21	6088315.38	intrusion	U	in pegmatite 3200 cps	Indication
13J	14	08AH227Y01	348759.41	6087526.69	intrusion	U	scintillometer =480 cps	Indication

Data from A.M. Hinchey (unpublished, 2016)



Inset Map - Geochronology / Isotopic data sample locations





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Slicken Striae ......

Stations .....

