

1. Fine-grained purplish-green diabase with numerous amygdalules of chlorite and at times calcite. Penetrated by veins and large splotches of reddish diabase (95).....	40
2. Light-colored medium-grained green and pink arkose.....	85
3. Fine-grained decomposed diabase.....	28
4. Light-gray and pink greyey arkose.....	30
5. Dark-green diabase.....	10
6. Light-greenish fine-grained arkose.....	40
Concealed	100
7. Dark-green diabase	60
8. Light-greenish fine-grained arkose.....	330
To contact with coarse biotite granite (96),	
	1,083

The contact of the arkose with the granite is a vertical fault from Contact of two to five feet wide and there is no appearance of alteration in either arkose with granite, rocks near the contact.

To the southward an upward continuation of the above section is as follows :—

1. Dark-green diabase.....	200
2. Dark-red argillite.....	2
3. Dark grayish-pink sandrock	25
Concealed	10
4. Lean red jaspilite	55*
Concealed	15
5. Impure red jaspilite.....	10
Concealed	15
6. Slatey impure jaspilite	35
7. Diabase full of jasper veins.....	15
8. Slatey iron jaspilite.....	10
9. Cherry dark gray limestone	10
Impure jaspilite.....	50
Diabase	100
	852

This diabase is the top member of the preceding section.

To the eastward of Cairn island the arkose rocks occupy a strip from 50 to 500 yards wide along the south shore of Richmond gulf, except for about a mile where the granite comes out to the shore. The islands in the south-eastern part are composed of interbedded diabase and arkose.

The granite comes out to the eastern shore at the foot of Whale bay, at the south point of Wiachewan bay, about three miles north of the mouth of Clearwater river; again to the northward of the mouth of Deer river and at the northern end of the gulf. Everywhere else along this shore and on the islands lying off it, the rocks are bedded arkose, greywacke and argillite, associated with flows of dark green diabase. The only other section of the rocks on Richmond gulf