

Carbon	99.815
Ash	0.078
Volatile matter.....	0.109

Analyses of vein
graphite from
Grenville.

100.000

Colour of the ash, light reddish-brown.

COMPOSITION OF ASH PER CENT.

Silica	55.080
Alumina	8.500
Sesquioxide of iron.....	18.310
Sesquioxide of manganese.....	0.309
Lime	7.700
Magnesia	2.018
Potash.....	4.779
Soda	2.969
Protoxide of copper.....	1.160
Oxides of nickel and cobalt.....	0.120

100.945

With regard to the presence of copper, nickel and cobalt in the ash of this graphite, see in this connection remarks made under analysis 15.

18. *Vein Graphite, var. Columnar.*

From lot one of the sixth range of the Augmentation of Grenville. Structure massive, dense, made up of stout, narrow laminae, interlocking each other at such an angle as to present an almost columnar appearance. In parts, viz., those in closest proximity to the vein rock, this structure was so fine as to appear coarsely fibrous. Colour, dark steel-grey. Lustre metallic. Specific gravity 2.2659 (containing 0.135 per cent. ash.) Heated in the closed tube this graphite gave off a little water, but only sufficient to form a filmy deposition.

This was a very pure specimen of graphite and contained no readily perceptible foreign matter. An analysis showed it to contain:—

Carbon	99.757
Ash	0.135
Volatile matter.....	0.108

100.000

Colour of the ash, light reddish-brown.