2. Disseminated Graphite.

From the twenty-second lot of the sixth range of Buckingham. The Analyses of "Disseming" property of the Buckingham Mining Company. Several important beds graphite" from Buckingham. of disseminated graphite occur towards the front of this lot. They have as yet only been uncovered. The specimen examined was considered a fair average of one of the most important beds.—Authority, Mr. H. G. Vennor.

The graphite, which occurs in scales, is evenly distributed through the rock; the latter was very much decomposed, and coloured brownishyellow to reddish-brown from the presence of ferric hydrate. contained no calcite; a small quantity of pyrrhotite was, however, shown to be present. Hydrochloric acid, with the aid of heat, dissolved out from the powdered rock 19:467 per cent.; the solution was found to contain:

Silicavery small	quantity.	Limelarge quantity.
Alumina, large	"	Magnesia "
Iron		Cobalttrace.
Manganesesmall	ш	Alkaliesnot sought for.

The rock contains:

Graphite	22.385
Rock matter, soluble in hydrochloric acid	19.467
Rock matter, insoluble in hydrochloric acid	56.408
Hygroscopic water	1.740

100 - 000

3. Disseminated Graphite.

From the twentieth lot of the eighth range of Buckingham. property of the Dominion of Capada Plnmbago Company. From a large bed of disseminated graphite, probably of considerable extent. The specimen examined was considered a fair average.—Authority, Mr. H. G. Vennor.

The graphite is pretty evenly disseminated in scales throughout the rock. The latter contains some calcite, as also small quantities of pyrrhotite. The powdered mineral is freely attacked by hydrochloric acid, which, with the aid of heat, dissolved out 21.285 per cent.; the solution was found to contain: