

TR9-12-16

2 RECONNAISSANCE SURVEY OF SAND DEPOSIT, KINGSTON

by V. M. Threader.

At the request of Mr. T. Pearsall, a reconnaissance survey was made of portion of his property on the western slopes of Boronia Hill, Kingston on 4th August, 1964, to estimate the available quantity of clean sand, suitable for glass manufacture.

The area lies east of the Channel Highway and south of Kingston township, and is reached by a dirt track which branches west from the old Tinderbox road, 1.5 miles from its junction with the Channel Highway.

No rocks outcrop in the vicinity but there are numerous blocks of Triassic sandstone scattered over the surface along the access track. The sand is overlain by a foot of sandy soil and underlain by peaty sand and clay.

The sand was examined under the microscope and found to have a particle size range of 0.1 to 0.3 mm with an average of 0.2 mm and is thus a fine sand. It is clean and well sorted with angular particles, suggesting wind winnowing and water washing but little transport and is therefore considered to be a residual deposit. Sand of this kind is common over much of Boronia Hill.

A post hole digger was used to deepen 18 shallow test pits which had already been dug on the property, and an average thickness of slightly less than 2 feet of clean sand was found over an area of 3 acres. This gives an available quantity of approximately 10,000 cubic yards.

HAND BORE LOGS

No. 1—

- 0' 0"-1' 0" soil
- 1' 0"-3' 0" clean sand
- 3' 0"-3' 3" black peaty soil
- 3' 3"-3' 6" yellow clay
- 3' 6"-5' 0" clayey sand

No. 2—

- 0' 0"-1' 3" soil
- 1' 3"-2' 0" sandy soil
- 2' 0"-4' 6" clean sand
- 4' 6"-4' 8" black sandy soil
- 4' 8"-5' 0" clayey sand

No. 3—

- 0' 0"-1' 0" soil
- 1' 0"-6' 0" clean sand
- 6' 0"-7' 0" hard black peaty sand
- 7' 0"-8' 0" sandy clay, in part fat sand

No. 4—

- 0' 0"-1' 0" soil
- 1' 0"-3' 0" clean sand
- 3' 0"-3' 3" black sand, part lithified

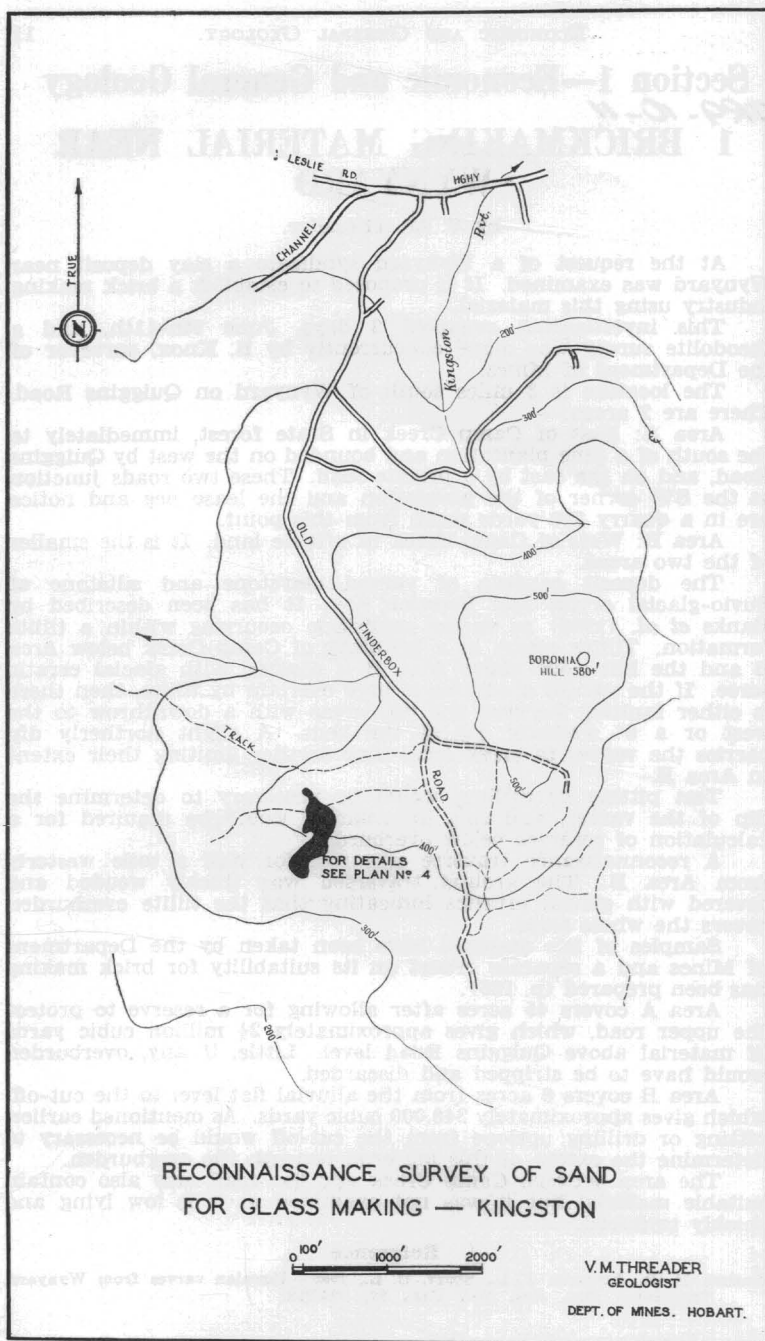
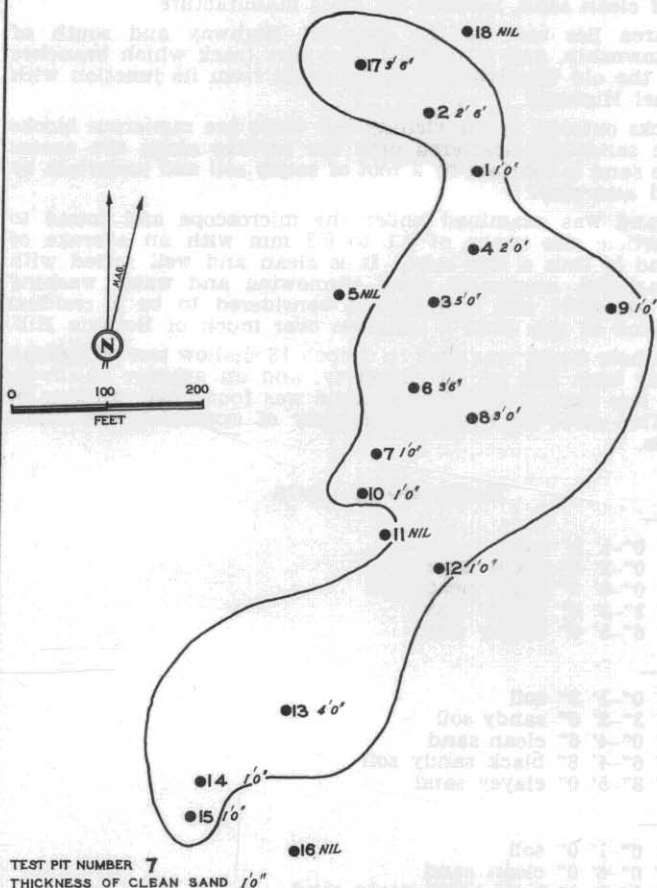


FIGURE 3.

5 cm

TEST PIT LOCATIONS — OLD TINDERBOX RD.
KINGSTON



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DEPT. OF MINES - HOBART

FIGURE 4.

5 cm

No. 5—

0' 0"-1' 0" soil
1' 0"-2' 0" clayey sand

No. 6—

0' 0"-1' 0" soil
1' 0"-5' 6" clean sand
5' 6"-6' 0" peaty sand
6' 0"-7' 0" sandy clay

No. 7—

0' 0"-1' 0" soil
1' 0"-2' 0" clean sand
2' 0"-3' 0" yellow clay

No. 8—

0' 0"-1' 0" soil
1' 0"-4' 0" clean sand
4' 0"-6' 0" black sand

No. 9—

0' 0"-1' 0" soil
1' 0"-2' 0" clean sand
2' 0"-3' 0" black sand

No. 10—

0' 0"-1' 0" soil
1' 0"-2' 0" clean sand
2' 0"-3' 0" black peaty clay

No. 11—

0' 0"-3' 0" yellow clay

No. 12—

0' 0"-1' 0" soil
1' 0"-2' 0" clean sand
2' 0"-3' 0" peaty sand

No. 13—

0' 0"-1' 0" soil
1' 0"-5' 0" clean sand
5' 0"-6' 0" black sand
6' 0"-7' 0" yellow clay

No. 14—

0' 0"-1' 0" soil
1' 0"-2' 0" clean sand
2' 0"-2' 6" black sand

No. 15—

0' 0"-1' 0" soil
 1' 0"-2' 0" clean sand
 2' 0"-4' 0" black sand
 4' 0"-5' 0" yellow clay

No. 16—

0' 0"-1' 0" soil
 1' 0"-1' 6" sandy soil
 1' 6"-2' 0" black peaty sand

No. 17—

0' 0"-0' 6" soil
 0' 6"-4' 0" clean sand
 4' 0"-4' 1" black peaty soil
 4' 1"-4' 6" yellow clayey sand

No. 18—

0' 0"-1' 0" soil
 1' 0"-1' 6" peaty sand
 1' 6"-2' 0" peat.