

431288

LIMESTONE DEPOSITSLUNenburg COUNTY *General*FROM DEPUTY INSPECTOR OF MINESTO INSPECTOR OF MINES

From September 18th to September 21st, 1946, occurrences of limestone at various places in Lunenburg County were examined with a view to obtaining limestone for the sulphite mill of Mersey Paper Company. One occurrence in Halifax County was also examined.

Redmond Hill - Ref. map <sup>11D12-W</sup> ~~21A12B~~ ? Halifax County

At Redmond Hill, one mile south of the village of Seabright a few scattered limestone boulders are to be seen but they are outnumbered more than 100 to 1 by granite boulders.

Old residents report that a small amount of limestone was removed to a kiln about ninety years ago, but there is nothing to indicate a quarry or limestone in situ.

Second Peninsula - Ref. map 21A9B

No occurrences of limestone were evident, and the rocks on the north shore are mainly granite. Two large potholes were found, but several residents who were interviewed had never heard of limestone being found in the district.

Chester Basin - Ref. map 21A9B

Geological maps show limestone occurring in the railway cutting one-quarter mile east of the railway station at Chester Basin, but on examination this proved to be ochre.

*RG*  
Goat Lake - Ref. map 21A9A

A narrow strip of Lower Carboniferous rocks extends from Frail Cove along the east side of Goat Lake, about two miles east of East Chester. From the shore a limestone ridge approximately 200

Goat Lake cont'd

feet wide extends back from the shore in an easterly direction. At the shore the exposed limestone face is 15 feet high and the ridge increases in height to the east. A small outcrop appears 125 feet east of the face, and it is possible that the deposit extends the length of the ridge (about 300 feet) before it runs into the granite. At the shore there is about two feet of overburden.

As can be seen from the sketch a dwelling and a large barn are situated on the deposit and this would probably preclude economical quarrying of the stone unless the depth is considerably more than 15 feet. This could be determined only by drilling. Some years ago a small amount was quarried for building and agricultural purposes.

The stone is a fine-grained, high-calcium limestone with many small fractures. Two samples from the exposed face were forwarded to Mersey Paper Company for analysis.

East River - Ref. map 21A9A

At a point approximately midway between East River and Mill Cove and one-half mile south of the railroad lies a small outlier of the Windsor Series. The whole area is flat and swampy and in a small area, about 200 feet by 600 feet, the surface is thickly covered with limestone boulders and occasional outcrops of limestone.

Owing to the nature of the ground considerable trouble with water could be expected on any attempt at quarrying.

The limestone is fine-grained, high-calcium and resembles that found further west at the so-called Lordly quarry.

Limestone also occurs on the property of Zenas Meisner about one-half mile due east of East River station and one-quarter mile north of the railroad at the north-eastern end of an outlier of the Windsor Series which extends from the tip of Indian point.

East River cont'd

Outcrops and boulders of limestone extend for a length of one-quarter mile and a width varying from 200 to 400 feet. The bedding is not distinct but the deposit appears to dip slightly to the south.

The limestone is fine-grained and dark blue-grey in colour. The southern end of the outcrop is dark brown in colour and appears to be a weathered dolomite.

No estimates are made of the depth of the deposit or possible tonnage of limestone available as these can only be determined by a drilling programme. Two samples were taken and forwarded to Mersey Paper Company for analysis.

Many years ago small amounts of limestone were quarried for building purposes from two places in the deposit.

Other Deposits

Several other deposits on islands in Mahone Bay were not examined as they are reported by Faribault to be shell limestone, a type which has not the hardness required by Mersey Paper Company.

Conclusions

From the above examinations it would appear that the deposit on the property of Zenas Meisner has the best possibilities. It is near the present shipping point of the Company and it is considered that a systematic drilling programme would outline a substantial tonnage of limestone.

At Goat Lake the presence of a house and barn on the deposit might possibly make the cost of quarrying the stone prohibitive.

Halifax, N. S.  
October 28, 1946

*W. L. Grant*

*ms. G.*

*W. L. Grant*