

Nova Scotia Coal Fields.

Sydney Area.

Description.	Tracy Mines. Near Mira. East side of False Bay beach.		North Atlantic Collieries, Ltd., Port Morien.		Outcrops at Port Morien.							
	1281		M50		1282		1284		1285		1283	
Moisture condition (see note, p. 2)	R	D	R	D	R	D	R	D	R	D	R	D
Loss on air-drying.....%	.....		.....		.....	.....	.....	.....	.....	.....	.....	.....
Results obtained by.....	Anal. Calc.		Calc. Anal.		Anal. Calc.	Anal. Calc.	Anal. Calc.	Anal. Calc.	Anal. Calc.	Anal. Calc.	Anal. Calc.	Anal. Calc.
Proximate analysis:—												
Moisture.....%	2.0		2.8		1.7		2.0		1.6		1.5	
Ash.....%	9.2 9.4		11.9 12.3		20.8 21.2		11.0 11.2		15.7 16.0		12.9 15.1	
Volatile matter.....%	34.5 35.2		33.8 34.7		30.5 31.0		34.0 34.7		31.4 31.9		31.2 31.7	
Fixed carbon.....%	54.3 55.4		51.5 53.0		47.0 47.8		53.0 54.1		51.3 52.1		54.4 55.2	
Ultimate analysis:—												
Carbon.....%			68.5 70.5									
Hydrogen.....%			5.0 4.8									
Ash.....%			11.9 12.3									
Sulphur.....%			6.2 6.4									
Nitrogen.....%			1.0 1.0									
Oxygen.....%			7.4 5.0									
Calorific value:—												
Calories per gram, gross.....			6810 7010									
B. Th. U. per lb., gross.....			12260 12620									
Fuel ratio.....	1.60		1.55		1.55		1.55		1.65		1.75	
Carbon-Hydrogen ratio.....			13.7 14.7									
Coking properties.....	small lump of fair coke				small lump of good coke	small lump of good coke	small lump of good coke	small lump of good coke	good, swollen coke			
Location in mine.....			Gowrie seam.		Gowrie seam.		Blockhouse seam.		Upper 13-ft. of Long Beach seam.		Lower part of Long Beach seam.	
Kind of sample.....	Mine.....		Commercial.		Prospect.....							
Quality of coal.....			Over 1 inch screen and picking belt.									
Taken by.....	A. O. Hayes, Geological Survey, Ot- tawa.		E. Stansfield.		A. O. Hayes.							
Date of sampling.....	Summer of 1917.		Jan. 15, 1909.		1917.							