

Timber for all mining purposes is easily procurable. Mr. Jennison suggests the derivation of power to work the mines from the Nictaux River, which has a length of fourteen miles, is fed by several large lakes, has a fall of seventy feet in a distance of 3,750 feet and a flow during the dry season of 7,680 cubic feet per minute, which would give 500

horse power during the dry time. The cost of installing electrical plant of this power and connecting it with the mines three and a half miles distant he estimates at \$25,000.

The following analyses, collected from different sources stated in the table, will serve to show the character of the Nictaux and Torbrook iron ores:—

ANALYSES of Iron Ores of Nictaux and Torbrook, Annapolis County, N.S.

Sample No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Peroxide of iron . {	69.17	71.85	26.39	.....	.....	75.80	48.34	.....	.....	.....	74.63	86.74	84.29	.....	.....	.....	.....
Protoxide of iron . {	.....	.....	.....	.....	.....	.....	21.76	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Protoxide of manganese.....	.....	0.28	12.74	.....	.....	0.65	0.40	.....	0.86	.....	.....	.....	.....	.....	3.02	Heavy trace	.....
Alumina .....	.....	3.59	.....	.....	.....	4.19	1.62	.....	5.53	.....	.....	.....	.....	.....	5.00	.....	.....
Lime.....	.....	2.30	.....	.....	.....	6.30	4.01	.....	2.70	.....	.....	.....	.....	.....	.....	.....	.....
Magnesia.....	.....	1.00	.....	.....	.....	.....	0.60	.....	0.41	.....	.....	.....	.....	.....	.....	.....	.....
Phosphoric acid.....	1.82	.....	.....	.....	.....	.....	3.08	.....	.....	.....	3.80	0.399	.....	0.47	.....	0.414	.....
Sulphuric acid.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.57	0.196	.....
Titanic acid.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Insoluble matter.....	18.94	18.13	33.50	11.64	.....	8.26	18.95	18.56	13.30	17.21	11.00	10.28	12.87	.....	26.50	10.12	.....
Metallic iron.....	50.09	50.27	.....	59.11	53.14	53.06	50.77	52.22	55.49	57.99	52.21	60.72	59.00	61.38	47.50	55.74	56.45
Phosphorus.....	0.05	.....	.....	0.17	0.172	2.65	.....	.....	0.23	0.18	1.66	0.17	.....	0.18	.....	0.18	.....
Sulphur.....	0.79	.....	.....	0.09	.....	0.20	0.08	.....	0.08	0.04	.....	.....	.....	.....	0.23	0.08	.....
Manganese.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

NICTAUX—1, Geological Survey Report for 1873-74, page 210; 2, Geological Survey Report, Vol. V., Part P., page 179; 3 do, page 180; 4 and 5, Gilpin's N.S. Mines and Mineral Lands, 1880, page 58; 6, "Shell ore," William Snaill in Trans. Min. Soc. of N.S., Vol. I., Part 3, page 62; 7, do, page 59, a magnetite; 8, Average of four magnetites from the Heatly, Baker and McConnell (2 samples) farms at Nictaux and Cleveland, Geological Survey Report, Vol. XIII., Part R., page 29, 1900; 9, Average of three samples of magnetite from Cleveland; 10, Average of two samples of hematite from Cleveland; 9 and 10, from Department of Mines for N. S., page 61, 1875.

TORBROOK.—11 to 17, Geological Survey Report, Vol. V., Part P., pages 179 and 180.

ANALYSES of Iron Ores of Nictaux and Torbrook.—Continued.

Sample No.	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
Peroxide of iron.....						49.52	.....	79.42	.....	.....	.....	.....	.....	.....	.....	.....	.....
Protoxide of iron.....						27.09	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Protoxide of manganese.....						0.80	.....	0.38	.....	.....	.....	.....	.....	.....	.....	.....	.....
Alumina.....				3.14	.....	1.90	.....	5.08	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lime.....				2.16	4.50	7.00	.....	1.90	.....	.....	.....	.....	.....	.....	.....	.....	.....
Magnesia.....						1.80	.....	0.35	.....	.....	.....	.....	.....	.....	.....	.....	.....
Phosphoric acid.....					0.30	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Sulphuric acid.....				0.11	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Titanic acid.....											0.144	.....	.....	.....	.....	.....	.....
Insoluble matter.....			17.21	5.93	9.50	13.48	10.22	12.00	11.56	10.39	10.87	14.16	10.35	7.97	9.41	.....	.....
Metallic iron.....	56.00	58.05	57.93	59.86	60.00	.....	59.76	55.60	54.71	42.30	54.84	53.10	55.40	51.28	52.40	50.76	54.87
Phosphorus.....		0.193	0.16	.....	0.13	Trace	.....	0.43	0.669	0.396	1.452	0.704	1.037	0.53	1.861	.....	.....
Sulphur.....			0.036	.....	.....	Trace	.....	0.11	0.007	0.015	0.015	0.025	0.114	0.028	0.030	.....	.....
Manganese.....										0.52	0.41	0.24	0.26	0.28	0.23	.....	.....

TORBROOK—18, Geological Survey Report, Vol. V., Part P. Pages 179 and 180; 19 and 20, Gilpin's Mines and Mineral Lands, 1880, page 58; 21 and 22, Geological Survey Report, Vol. X., Part S., page 98; 23 and 24, R. G. E. Leckie in Trans. Min. Soc. of Nova Scotia, Vol. I., Part 3, page 53; 25, do., page 61; 26 to 32, Ores from the Armstrong and other farms on the South mountain, Report by Dr. E. Gilpin, 1901; 33, average of 10 samples, ranging from 46.60 to 55 per cent of metallic iron, from the Spinney, Martin, H. P. Wheelock, F. Wheelock, Holland and Allen farms; see map also Geological Survey Report, Vol. IX., Part M., page 142; 34, McConnell farm on the southern side; 33 and 34 are also from Gilpin's Report, 1901.