The following analyses have been made by Mr. Skey of the samples of coal which I collected:—
1. Anthracites,—

Fixed car	rbon				•••	Acheron. 65.80	Ayers's thin seam. 52 01
Hydro-ca	$\mathbf{r}\mathbf{bon}$	•••				5.38	3.69
Water	•••			•••		4.57	4.89
$\mathbf{A}\mathbf{s}\mathbf{h}$		•••	•••			24.25	39.41
						100 00	100.00

Evaporative power: Acheron, 8:50; Ayers, 6:76.

2. Altered Brown Coals in which percentage of water is not high,-

Fixed carbon Hydro-carbon Water Ash	 	 Brockley, per Mr. Cox. 49 99 35 42 11 79 2 80	Brockley, per Mr. McMillan. 53.29 33.04 12.65 2.02	Ayers's thick seam, 62:21 18:99 5:20 13:60
,		100.00	100.00	100.00
			Company of the Compan	DATE OF THE PARTY

Evaporative power: Brockley (Cox), 6.49; Brockley (McMillan), 6.77; Ayers's thick seam, 8.08.

3. Altered Brown Coals with high percentage of water,-

70	. 1 • .	70.00		Rakaia Mine.		terop of Coal in Cliff on Rakaia River.	
. Ki	аказа	Mine.		Upper Seam.	No. 1, Lower Seam.	No. 2, Upper Seam.	
Fixed Carbon		46.06	46.70	44.43	45.30	35 30	
Hydro-carbon		28.80	24.99	26.08	25.95	27.42	
Water		18.18	18.42	19.53	26.15	18.28	
Ash	• • •	6.86	9.89	9.96	2.60	19 00	
		100.00	100:00	100.00	100.00	100.00	
			_	Account the property of the last of the la	The Party of the P	A CONTRACTOR OF THE PARTY OF TH	

Evaporative power: Rakaia Mine (1), 5.98; Rakaia Mine (2), 6.07; Rakaia Mine, upper seam, 5.77; lower seam on cliff, which has been worked to small extent, 5.88; upper seam on cliff, also worked to small extent, 4.59.

It will be of interest to reproduce here a report by the Railway Department on the comparative work done by Westport, Shag Point, and Brockley coals, from which it will be seen that the tonnage per train-mile for 1lb. of coal consumed, which is the best test of the comparative value of the coals, is as follows: Westport, 8·22; Brockley, 5·63; Shag Point, 3·74. The evaporative powers of the different coals being: Westport, 8·2; Brockley, 6·5; Shag Point, 5·4.

The Director of the Geological Survey.

I have, &c., S. HERBERT Cox.

HURUNUI-BLUFF SECTION (NEW ZEALAND RAILWAYS).
Comparative Statement of Brockley, Shag Point, and Westport Coals used on Locomotives.

Date.	Eng. No.	Class.	Mileage.	Coal consumed.	Rate per ton.	Value.	Average consumption per mile.	Cost in pence per Engine-mile.	Cost in pence per Ton-mile.	Average tonnage per Train- mile.
Brockley.										
1881. April 18 to April 30	84	J.	1,093	ewt. 400	£ s. d. 1 2 0	£ s. d. 22 0 0	lb. 41.00	4.83	025	230.82
Shag Point.										
1880. Sept. 20 to Oct. 16	84	J.	2,167	1,070	0 13 0	34 15 6	55.30	3:85	.022	207:11
Westport. April 11 to April 30 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \										
1881. April 11 to April 30	86	J.	1,649	420	1 4 0	25 16 0	29 20	3.75	.020	240.10