Table 2.1 Total Sulfur and Neutralization Potential Values of Rock Samples

Split Sample ID	Total% Sulfur	*Fizz	Neutralization Potential (ppt)
Brush Creek Shale			
#8	0.90	2	138.28
#16	0.92	2	135.58
#24	0.91	2	133.39
#32	0.93	2	135.83
Wadesville Sandstone			
#4	0.00	2	255.84
#8	0.00	2	274.24
#16	0.01	2	261.50
#24	0.00	2	281.96
Highwall "A"	0.01	2	225.62
Valentine Limestone			
"A"	0.00	3	928.99
"I"	0.00	3	926.68
"K"	0.00	3	931.82
"P"	0.02	3	928.35
Leechburg Coal Refuse			
S-1	1.68	0	0.91
S-2	3.03	0	-1.32
S-3	1.58	0	3.29
S-4	2.01	0	5.27
S-5	2.42	0	1.29
Ernest Coal Refuse			
1A	4.38	0	1.16
1B	4.03	0	1.65
2A	3.75	0	2.29
2B	4.19	0	1.36
3A	3.91	0	1.09
3B	3.45	0	1.02
4A	1.23	0	-0.37
4B	0.99	0	-0.21
5A	1.28	0	1.38
5B	1.39	0	1.13

The Valentine limestone and the Ernest and Leechburg coal refuse samples were not as rigorously tested as the primary and secondary samples described above (i.e., no duplicate samples were analyzed during kinetic test evaluation). However, results from these samples provide some useful additional information on the performance of the draft weathering methods as described in Hornberger, et al., (2003). The Valentine limestone is described in a PA Geologic Survey publication (O'Neill, 1964) and Brady et al., (1998, p. 8-46) as the purest limestone in Pennsylvania, typically having calcium carbonate content greater than 97%. The specific Valentine limestone sample used in this project was collected from a quarry and underground mine operated by Graymont (PA), Inc. in Centre County, PA. That Valentine Limestone sample was collected from a stock pile located at the mine site near the town of Pleasant Gap. The stock pile consists of high-calcite bench material known to have 98.5% $CaCO_3$ and essentially zero sulfur.