

## **APPENDIX AA**

# **RESULTS OF PROXIMATE ANALYSIS TESTING**

**Lab No :** 201101053-001  
**Date Rec'd :** 4/14/2011  
**Date Sampled :** 8/20/2010 to 8/20/2010  
**Sampled By:** CLIENT



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Date : 4/18/2011 12:08:52 PM

MINE SAFETY AND HEALTH ADMINISTRATION  
 DEPT OF LABOR  
 1100 WILSON BLVD ROOM 2432  
 ARLINGTON, VA 22209  
 ATTN: CLETE STEPHAN

P.O.# :

**Sample Identification**

SAMPLE FROM GLORY HOLE SEAL  
 SAVE ALL UNUSED REMAINING SAMPLE TO BE RETURNED TO CUSTOMER

LBS SO2 / MMBTU 1.21

	% Moisture	% Ash	% Volatile	% Fixed Carbon	BTU / LB.	% Sulfur
As Rec'd	1.62	26.55	29.43	42.40	10854	0.66
Dry Basis	-----	26.99	29.91	43.10	11033	0.67
M-A-Free					15112	
Method	D3302	D3174	D3175	D3172	D5865	D4239

FREE SWELLING INDEX (D720) : \*\*\*\*\*

ASH FUSION TEMP. OF ASH (DEG F) Reducing Oxidizing D1857  
 INITIAL \*\*\*\*\*  
 SOFTENING \*\*\*\*\*  
 HEMISPHERICAL \*\*\*\*\*  
 FLUID \*\*\*\*\*

HARDGROVE GRINDABILITY INDEX ( D409 ) \*\*\*\*\* @ \*\*\*\*\* % Moist.

Chlorine D6721 Dry Basis ug/g = \*\*\*\*\*

Mercury D6722 Dry Basis ug/g = \*\*\*\*\*

Note: \*\*\*\*\* INDICATES ANALYSIS WAS NOT PERFORMED

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Respectfully Submitted,

*L.A. Wilshire*

**Lab No :** 201101053-002  
**Date Rec'd :** 4/14/2011  
**Date Sampled :** 4/14/2011 to 4/14/2011  
**Sampled By:** CLIENT



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 DEPT OF LABOR  
 1100 WILSON BLVD ROOM 2432  
 ARLINGTON, VA 22209  
 ATTN: CLETE STEPHAN

P.O.# :

**Sample Identification**

TAILGATE CHANNEL SAMPLE  
 - 80' OUT BY THE SHEARER BETWEEN CROSSCUT 46 AND 47  
 SAVE ALL UNUSED REMAINING SAMPLE TO BE RETURNED TO CUSTOMER

LBS SO2 / MMBTU 1.25

	% Moisture	% Ash	% Volatile	% Fixed Carbon	BTU / LB.	% Sulfur
As Rec'd	2.23	6.82	32.81	58.13	14010	0.88
Dry Basis	-----	6.98	33.56	59.46	14330	0.90
M-A-Free					15405	
Method	D3302	D3174	D3175	D3172	D5865	D4239

FREE SWELLING INDEX (D720) : \*\*\*\*\*

ASH FUSION TEMP. OF ASH (DEG F)	Reducing	Oxidizing	D1857
INITIAL	*****	*****	
SOFTENING	*****	*****	
HEMISPHERICAL	*****	*****	
FLUID	*****	*****	

HARDGROVE GRINDABILITY INDEX ( D409 ) \*\*\*\*\* @ \*\*\*\*\* % Moist.

Chlorine D6721 Dry Basis ug/g = \*\*\*\*\*

Mercury D6722 Dry Basis ug/g = \*\*\*\*\*

Note: \*\*\*\*\* INDICATES ANALYSIS WAS NOT PERFORMED

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Respectfully Submitted,

*L.A. Dilshire*

**Lab No :** 201101053-003  
**Date Rec'd :** 4/14/2011  
**Date Sampled :** 4/14/2011 to 4/14/2011  
**Sampled By:** CLIENT



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 ARLINGTON, VA 22209  
 ATTN: CLETE STEPHAN

P.O.# :

**Sample Identification**

HEADGATE CHANNEL SAMPLE  
 TAKEN NEAR MINE DUST SURVEY LOCATION 11E1  
 SAVE ALL UNUSED REMAINING SAMPLE TO BE RETURNED TO CUSTOMER

LBS SO2 / MMBTU 1.19

	% Moisture	% Ash	% Volatile	% Fixed Carbon	BTU / LB.	% Sulfur
As Rec'd	1.77	7.98	32.77	57.48	13890	0.83
Dry Basis	-----	8.12	33.36	58.52	14140	0.84
M-A-Free					15390	
Method	D3302	D3174	D3175	D3172	D5865	D4239

FREE SWELLING INDEX (D720) : \*\*\*\*\*

ASH FUSION TEMP. OF ASH (DEG F) Reducing Oxidizing D1857  
 INITIAL \*\*\*\*\*  
 SOFTENING \*\*\*\*\*  
 HEMISPHERICAL \*\*\*\*\*  
 FLUID \*\*\*\*\*

HARDGROVE GRINDABILITY INDEX ( D409 ) \*\*\*\*\* @ \*\*\*\*\* % Moist.

Chlorine D6721 Dry Basis ug/g = \*\*\*\*\*

Mercury D6722 Dry Basis ug/g = \*\*\*\*\*

Note: \*\*\*\*\* INDICATES ANALYSIS WAS NOT PERFORMED

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Respectfully Submitted,

*L. A. Wilshire*

**APPENDIX AB**

**ROCK DUST CREW NOTEBOOK**