

**LABORATORY REPORT**

Customer: Pioneer Aggregates, Inc.  
215 East Saylor Avenue  
Laflin, PA 18702

Report Date: 9/10/2015

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Material Tested:	Solid Fuel	HawkMtn WO #:	1508-00792-001
Date Sampled:	08/17/2015	Sampler:	Client
Date Received:	08/17/2015	Sample Point ID:	Top Vein
Client Sample ID:	Top Vein Black Bucket		

Gross Weight as Received = 2.53 kg      Air Dry Loss (ASTM D 2013) = 1.73 %

Test	Method	As Received	As Determined	Dry
% Moisture	ASTM D7582-15	3.20	1.50	
% Ash	ASTM D7582-15	6.86	6.98	7.09
BTU/lb	ASTM D5865-13	13566	13805	14015
% Sulfur	ASTM D4239-14	1.24	1.26	1.28
% Volatile Matter	ASTM D3175-11	4.93	5.02	5.10
% Fixed Carbon	ASTM D3172-13	85.01	86.50	87.81

BTU Moisture Ash Free Basis      15084 BTU/lb, (daf)

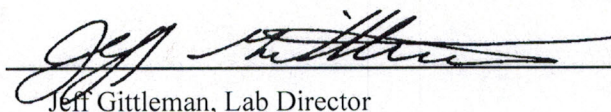
Ash Fusion Reducing Atmosphere (ASTM D1857)

Initial Deformation	+2800F*
Softening Temperature	+2800F*
Hemispherical Temp.	+2800F*
Fluid Temperature	+2800F*

Samples reinstated for additional testing on 8/25/15 at client's request.

These results relate only to the sample noted above.

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Jeff Gittleman, Lab Director