



Legend
 New Hill West Surface Mine



Scale: See Scale	Drawn: KBWR	 <p>POTESTA ENGINEERS AND ENVIRONMENTAL CONSULTANTS</p>	Patriot Mining Company, Inc. 2708 Cranberry Square Morgantown, West Virginia 26508	Vicinity Mapping	Attachment 16
Date: April 2010	Checked: JLY				
Project No: 09-0081	Approved: JLY				
G:\Projects\2009\09-0081 New Hill West\Map Documents\Attachment 16.mxd					

Type(s) of Material Being Discharged and the Amount of Each Type in Cubic Yards

The proposed project is located in Monongalia County, West Virginia, along the valley walls in unnamed tributaries of Scotts Run. Scotts Run is a tributary of the Monongahela River (a Section 10 River). The proposed project area is located within the Appalachian Plateau physiographic province and is characterized by gradual topographic relief. The bedrock exposures at site are stratigraphically characterized as the Upper Pennsylvanian Age, Monongahela Group and the Permian-Pennsylvanian Age, Dunkard Group. Within the proposed permit boundaries, the Monongahela Group lies below the top of the Waynesburg coal. The Dunkard Group extends upward from the top of the Waynesburg coal and also contains the Waynesburg “A” coal seam. Local streams have deeply dissected the plateau into narrow sided valleys separated by hills and ridges. Geological strata within the permit area include primarily sandstones, shales and sandy shales with lesser amounts of coal. The predominant rock lithology (as illustrated on the geologic cross sections) is sandstone with lesser amounts of lenticular sandy shales, some of which are carbonaceous. Many of the sandstones present in the area occur as lenses or grade into sandy shales within relatively short horizontal distances. The sandstones range from fine to medium grained. Their composition includes feldspars and quartz. Siltstones and claystones are less frequent with gradations ranging from fine sands to silty shales. This material is mostly of durable nature and of a non-toxic variety.

AMOUNT OF MATERIAL
Temporary Impacts

Tributary	Area	Capacity to the Stream Ordinary High Water Mark (Cubic Yards)
Tributary No. 1	Mine-Through No. 1	501.49
Tributary No. 1-1	Mine-Through No. 1-1	36.25
Tributary No. 4	Mine-Through No. 4	182.04
Tributary No. 5	Mine-Through No. 5	16.51
Tributary No. 6	Mine-Through No. 6	467.71
Tributary No. 7	Mine-Through No. 7	1,759.66
Tributary No. 7-1	Mine-Through No. 7-1	6.48
Tributary No. 7-3	Mine-Through No. 7-3	80.28
Tributary No. 8	Mine-Through No. 8	592.92
Tributary No. 9	Mine-Through No. 9	203.20
Tributary No. 10	Mine-Through No.10	94.72

Application for Department of Army Permit
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Permanent Impacts

Wetland	Capacity to the Stream Ordinary High Water Mark (Cubic Yards)
Wetland No. 1	96.80
Wetland No. 2	580.80
Wetland No. 4	561.44

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Surface Area in Acres of Wetlands or Other Waters Filled

**UNNAMED TRIBUTARIES OF SCOTTS RUN
MONONGALIA COUNTY, WEST VIRGINIA**
Temporary Impacts:

Tributary	Culverts	Surface Area at the Stream Ordinary High Water Mark (Acres)
Tributary No. 1	Mine-Through No. 1	0.029
Tributary No. 1-1	Mine-Through No. 1-1	0.007
Tributary No. 4	Mine-Through No. 4	0.012
Tributary No. 5	Mine-Through No. 5	0.002
Tributary No. 6	Mine-Through No. 6	0.037
Tributary No. 7	Mine-Through No. 7	0.115
Tributary No. 7-1	Mine-Through No. 7-1	0.001
Tributary No. 7-3	Mine-Through No. 7-3	0.006
Tributary No. 8	Mine-Through No. 8	0.017
Tributary No. 9	Mine-Through No. 9	0.009
Tributary No. 10	Mine-Through No.10	0.009

Permanent Impacts

Wetland	Total Impacts (Acres)
Wetland No. 1	0.005
Wetland No. 2	0.030
Wetland No. 4	0.029