FOUNDATION MINING, LP
158 Portal Road, P.O. Box 1020
Waynesburg, PA 15370

July 31, 2008

VIA UPS

Michele L. Tate
Regulatory Coordinator
Commonwealth of Pennsylvania
Department of Environmental Protection
Rachel Carson State Office Building
Post Office Box 2063
Harrisburg, PA 17105-2063

RE: Petition for Stream Redesignation – South Fork of Tenmile Creek

Dear Ms. Tate:

Attached are 2 sets of additional information that was requested to supplement our modified Petition for Stream Redesignation, which was submitted June 10, 2008. Included is additional water chemistry and aquatic community data required under E. 4. of the Petition Form. This information was collected and provided as part of our permit applications for proposed future mining activities in this watershed. Also included is information prepared by Kareen Milcic, Chief, Permits with the Bureau of Water Quality Pittsburgh Regional Office, on existing point and nonpoint source discharges within and near the petition area as required under E. 5. of the Petition Form.

If you have any questions please don't hesitate to call me at (724) 627-2219. Thank you for your continued cooperation on this matter.

Sincerely,

Terry L. Dayton

Terry L. Dayton
Environmental Manager

cc: Kelly Heffner
John W. Greene
Lawrence Emerson
Brian K. Pancher
Donald C. Bluedorn II, Esq.

Dayton, Terry (PS) 2219

From: Milcic, Kareen [kmilcic@state.pa.us]
Sent: Thursday, July 31, 2008 9:36 AM
To: Dayton, Terry (PS) 2219; Milcic, Kareen
Cc: Heffner, Kelly
Subject: RE: Point & Nonpoint Discharges

Terry,

Attached please find a map that was generated using eMAPS. There is also a legend attached to the map. It does not appear that there are any point or non-point sources in the Petition Area. If you would like to confirm this, eMAPS is accessible through the Department's web site. This map does not contain information relating to any water wells, private or public. This information was removed from the map. If this information is necessary, please contact me.

In addition, I checked our electronic database to identify facilities with NPDES permits in Center Township, Greene County. There are several discharges:

NPDES PA0252590 Rogersville Sewage Treatment Plant
NPDES PA0253286Rogersville CBM-CNX Gas Company
NPDES PA0098469 Community Bank Sewage Treatment Plant-Pioneer Office
WQM Part II Permit 3088403 Community Bank Sewage Treatment Plant-Rogersville Office
NPDES PA0033626 West Greene Middle Senior High School
If you have any additional questions, please contact me.

Kareen Milcic
Chief, Permits Section
Water Management

-----Original Message-----
From: Dayton, Terry (PS) 2219 [mailto:tdayton@foundationcoal.com]
Sent: Monday, July 14, 2008 5:21 PM
To: kmilcic@state.pa.us
Cc: Heffner, Kelly
Subject: Point & Nonpoint Discharges

Kareen:

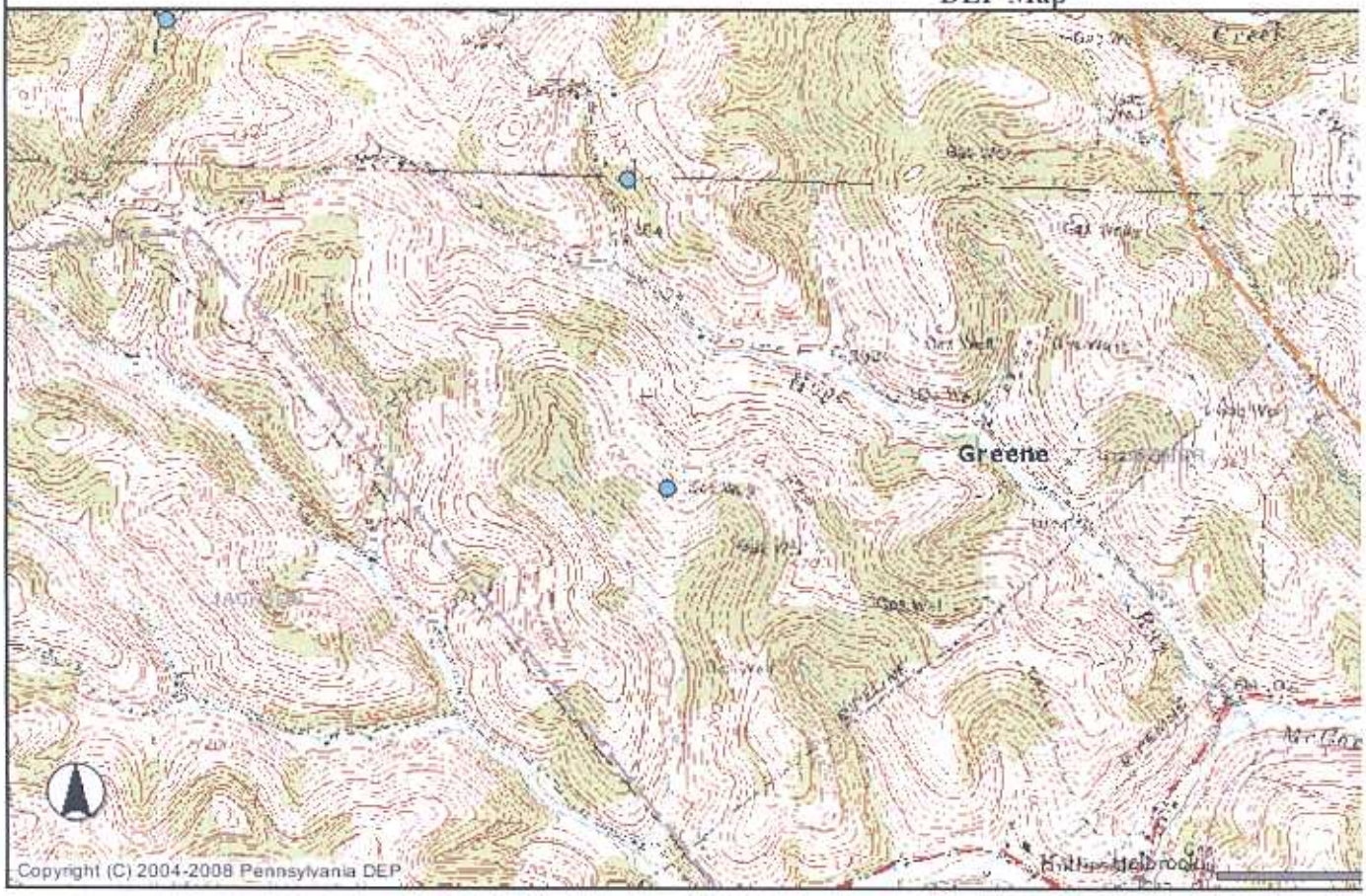
As I mentioned in my VMX earlier today, Foundation Mining, L.P. has filed a Petition for Stream Redesignation requesting that a small portion of the South Fork of Tenmile Creek watershed be redesignated from "HQ-WWF" to "WWF." Attached is a figure indicating the Petition Area. Kelly Heffner in Harrisburg asked me to inquire of you whether the Department is aware of any point or non-point source discharges in the Petition Area. I know that you and your staff are very busy right now, but we would appreciate your feedback at your earliest convenience because we are working to provide the updated information (including the information that we are requesting from you) by July 31st. Thank you very much for your consideration in this matter.

Terry L. Dayton
Environmental Manager

Pennsylvania Land Holdings Corporation
An Affiliate of
Foundation Coal

Office: 724 627-2219
Fax: 724 627-2242
Mobile: 724 998-7099
PO Box 1020
158 Portal Road
Waynesburg, PA 15370

DEP Map



Legend

- County Boundaries
- Animal Equivalency Units
- Minor Civil Divisions
- US Routes
- Interstates
- Discharge Point - IMMO
- Mineral Preparation Plant - IMMO
- Surface Mine - IMMO
- Underground Mine - IMMO
- Distribution System
- Entry Point
- Pump Station - PWS
- Source
- Storage Facility - PWS
- Transmission Main
- Water Treatment Plant
- Composting - RWO
- Generator
- Impoundment
- Incinerator - RWO
- Land Application - RWO
- Landfill - RWO
- Processing Facility - RWO
- Transfer Station - RWO
- Biosolids Processing
- Biosolids Treatment
- Compost/Processing
- Conveyance System
- DP WPCF Sewage Discharge Point
- Discharge Point - WPCF
- Groundwater Monitoring Point
- Internal Monitoring Point - WPCF
- Land Discharge
- Outfall Structure - WPCF
- Pump Station - WPCF
- Septage Land Application
- SU Storage Unit
- TP WPCF Sewage Treatment Plant
- TP Treatment Plant - WPCF
- Discharge
- Ground Water Withdrawal
- Interconnection
- Storage
- Surface Water Withdrawal
- Water Allocation
- Air Pollution Control Device
- Combustion Unit
- Fuel Material Location
- General Administrative Location
- Incinerator - AEP
- Point of Air Emission
- Process
- Boiler Industrial Furnace
- Disposal Facility - CAHWO
- Hazardous Generator
- Incinerator - CAHWO

Captive


Recycling Facility - CAHWO
Storage Facility - CAHWO
Treatment Facility - CAHWO
Coal-Aboveground Storage Tank
Discharge Point - CMO
Mineral Preparation Plant - CMO
Post Mining Treatment
Refuse Disposal Facility
Refuse Reprocessing
Surface Mine - CMO
Underground Mine
Coal Pillar - Mining
Coal Pillar - Oil & Gas
Disposal Facility - COHWO
Hazardous Generator Commercial
Recycling Facility - COHWO
Storage Facility - COHWO
Treatment Facility - COHWO
A1 Dam
A2 High Hazard Dam
A2 Non-High Hazard Dam
A3 Dam
B1 Dam
B2 High Hazard Dam
B2 Non-High Hazard Dam
B3 Dam
Breached or Not-Built
C1 Dam
C2 High Hazard Dam
C2 Non-High Hazard Dam
C3 Dam
Dam
Non-Jurisdictional Dam
Boat Launch Ramp
Bridge - ENCL
Bulkhead or Groin
Ch 106 Floodplain Permit
Channel Work
Culvert - ENCL
Dock
Dredging
Fill Stream Channel
Flood Levee or Walls
Flood Protection Project
Floodway Activity
Ford Crossing
Gravel Bar Removal
Intake Structure
Non-Jurisdictional Dam - ENCL
Other Activities
Outfall Structure - ENCL
PA Wetland Replacement Project
Pipeline or Conduit
Stream Bank Protection
Stream Enclosure
Stream Relocation
Stream Restoration
Stream Restoration w/ Dam Removal

- Submerged Lands License Agreement
- Temporary Wetland Impact
- Treatment Wetland System
- Wetland Impact
- Wetland Mitigation Bank
- Wetland Restoration
- Drop Trailer
- Magazine
- Composting
- Land Application - MWO
- Landfill - Abandoned
- Landfill - MWO
- Processing Facility - MWO
- Resource Recovery
- Transfer Station - MWO
- Land Application - OGL
- Pit
- Oil and Gas Well
- Discharge Point - OGWPC
- Internal Monitoring Point - OGWPC
- Treatment Plant - OGWPC
- Bridge - OGEL
- Culvert - OGEL
- Parcel
- Storage Tank
- Accelerator
- General Licensed Material
- Mammography Quality Stds Act Tube
- Radioactive Material
- XRay Machine
- Agricultural Activities
- Commercial or Ind Dev
- Government Facilities
- Oil And Gas Development
- Private Road or Residence
- Public Road Construction
- Recreational Facilities
- Remediation/Restoration
- Residential Subdivision
- Sewerage or Water Systems
- Silviculture
- Utility Fac and/or Trans Lines
- Air Media
- Contained Release or Abandoned Container
- Groundwater Media
- Sediment Media
- Soil Media
- Surface Water Media
- Waste Media
- Coal Refuse Pile Reclamation
- Deep Mine Reclamation
- Internal Monitoring Point
- Mine Drainage Treatment
- Oil & Gas Well Reclamation

- Surface Mine Reclamation
- EPA Toxic Release Inventory
- Surface Water Intakes
- Brownfields
- Groundwater Wells

MODULE 08 – "UNDERGROUND" TAB

INSTRUCTIONS:

1. REMOVE AND REPLACE MODULE 8 – PAGES 8-1 THROUGH 8-13
2. INSERT ATTACHMENT 8.2 – PUBLIC WATER SUPPLY INFORMATION (INCLUDING TITLE PAGE)
3. REMOVE AND REPLACE EXHIBIT 8.2 – HYDROLOGIC DATA MAP
4. REMOVE AND REPLACE FORM 8.3B – STREAM INVENTORY

Module 8: Hydrology

8.1 Hydrologic Description - Permit Area.

Attach a narrative description of existing groundwater and surface water resources of the area to be affected by the proposed activity, addressing the items listed below. For underground mining operations separate descriptions should be prepared to address the underground permit area and surface activity sites where coal preparation, coal refuse disposal, coal storage, surface mining, and mine drainage treatment will take place. Information must be specific to the proposed permit area and not general statements from published regional hydrogeology reports.

a) The groundwater flow conditions (confined, unconfined, perched) within the permit and adjacent areas.

Residents within the proposed permit area derive their water supplies from relatively shallow groundwater wells and springs. The depths of these wells are consistent with the information presented by Stoner et. al (1987). Within the proposed permit area, the residents are generally situated along the stream valleys. Limited residents have shallow, "dug" wells, indicating that these wells are most likely installed within alluvial soils. However, the majority of the wells are installed in bedrock, predominantly within the Greene and Washington Formations.

The upper portion of bedrock is generally more fractured due to weathering and stress release within valleys. Fractures that are present at greater depths are generally "tighter" due to higher confining stresses. Because of the higher permeabilities of these shallow fracture zones, wells are set in the uppermost portion of bedrock. Sandstones and coal strata have higher hydraulic conductivities than the limestone, shale, claystone and siltstone beds, which are generally not as susceptible to fracturing and, when fractures do develop, they are commonly filled with fine grained particles. Interfaces between different rock types and between bedding planes (especially in sandstones) also provide zones of weakness that are potential pathways of groundwater movement.

The complexity of the bedrock fractures in which groundwater travels creates localized random variations in permeability which modifies the relationship between the water table and directions of groundwater movement. For example, relatively impermeable strata above the level of surface drainage can create bodies of perched groundwater above the main water table. The impermeable stratum acts as a barrier to vertical movement and either traps water or directs flow laterally toward the hillside where springs or seeps typically occur. Perched groundwater conditions in the classic sense where permeable and impermeable strata may be interlayered throughout a ridge system do not appear to be prevalent due to the lack of great permeability contrast in the upper strata. The sandstones may be somewhat more permeable than the shales due to more pronounced jointing, but they are too thin and discontinuous to contain perched water bodies which are continuous across ridges. However, many localized perched zones exist in the near-surface where fractured and weathered bedrock is prevalent. These perched zones result in many contact springs where fractured, permeable strata outcrop above unfractured, relatively impermeable strata.

Within the proposed permit area, the major stream valleys include Hargus Creek, Grinage Run, Garner Run, McCourtney Run, House Run, Hoge Run, Webster Run, Falling Timber Run and Job Creek. The stream valleys of Hargus Creek, McCourtney Run, Garner Run and House Run are flanked by thin alluvial deposits along their flood plains. These deposits serve as minor aquifers deriving most of their recharge from the creeks. The water in these aquifers is perched above the underlying bedrock.

Below drainage, water is present within the fractures that connect (generally vertically) across strata. This water is essentially in an unconfined condition, with minimal flow. Variations in permeability, especially with the clays associated with coal seams, may result in confined conditions at some locations. Due to the rolling nature of the structure and the lack of continuous high permeability zones within the strata, these confined conditions probably do not result in significant heads. Confined conditions probably exist in the strata below the Pittsburgh Coal seam, however, the very limited use of deep wells in the proposed permit area makes it difficult to evaluate any potential hydrostatic head in the strata below the Pittsburgh Coal seam.

b) The depth to respective groundwater flow systems and seasonal fluctuations.

Groundwater supplies in the vicinity of the proposed permit area are obtained from shallow wells, generally less than 100 feet deep, however one well is 225 feet deep. Most of the wells are set in bedrock, specifically the Greene Formation. Some wells are developed in the alluvial deposits along the major stream valleys. These provide limited quantities of water for residential use. Because the near surface water table, (including perched water) is generally a subdued version of the topography, water is encountered at greater depths on the ridges than in the valley bottoms.

Groundwater in the proposed permit area is derived from the infiltration of precipitation. On the average, precipitation varies relatively little from season to season during the year in southwestern Pennsylvania. However, the rate of groundwater recharge varies due to seasonal changes in the rate of evapotranspiration which is highest during the summer and lowest in winter. The water table fluctuates according to the rate of recharge and is therefore generally lowest in late summer and highest in late winter. Considerable seasonal variation in the water table occurs beneath the hills with less variation in the major valleys where perennial discharge takes place. Depth to groundwater is typically greatest beneath the hilltops. During exceptionally dry years, groundwater levels may drop sufficiently to interrupt base flow to springs and streams in the proposed permit area. Consequently, nearly all of the intermittent streams may essentially cease flow due to lack of groundwater discharge. These fluctuations will also affect the water level and available water quantity in the near surface wells.

c) General patterns of groundwater movement.

Due to the considerable local relief and the low permeability of the strata, the water table surface shows large variations in elevation over the proposed permit area. In general, the water table conforms to a subdued version of the local topography. Movement of groundwater takes place radially from areas of high elevation towards the valleys. Within the unsaturated zone, water migrates within fractures and along bedding planes. Primary porosity which is a factor of the nature of the intergranular voids is relatively unimportant in terms of the occurrence and movement of groundwater. The path of groundwater movement is defined by the pattern of fractures and bedding planes. This shallow groundwater eventually discharges via springs, recharges streams or becomes part of the deeper groundwater flow regime.

d) Any unusual conditions that influence groundwater movement.

The only "unusual" condition that influences groundwater movement is the absence of an aquifer, in the classical sense of the word. Most of the porosity of the strata is secondary, that is, it is derived from fractures in the rock rather than the intergranular void spaces in the rock. Shallow groundwater in the area of the proposed permit is contained within fractured joints in the bedrock of the Greene and Washington Formations. The Greene Formation has been eroded within the immediate areas adjacent to the major streams. No distinct aquifer units are apparent within the strata from which the residents obtain their water. There appears to be little correlation between lithology and the occurrence of water-bearing fractures. Most groundwater production in the region is derived from shallow bedrock wells less than 100 feet deep, and from hillside springs.

e) The relationship between groundwater discharge and surface water flow.

As noted earlier, discharge takes the form of hillside springs, baseflow to streams and evaporation of diffuse groundwater seepage from the soil. Stress-relief fractures are commonly present in the near-surface bedrock of valley walls and valley floors where streams are generally located. Groundwater flows through these fractures to join the existing surface water flow.

f) The general quality and quantity of water in aquifers that serve as current sources of supply and those which may be used to develop alternate supplies.

No aquifers, in the classic sense of the word, exist in the proposed permit area. As previously stated, groundwater is primarily obtained from fractures and bedding plane openings in shallow bedrock.

In general, the lenticular sandstone beds in the Washington Formation are the best water producers. Individual sandstone beds are usually 10 feet thick or less and are of limited areal extent making correlation and accurate identification difficult. Highly jointed shales also supply water wells in the area and in some cases produce as much water as the sandstones. However, the water producing capability of shales is generally not as great as sandstones. Median well yields in the Greene and Washington formations are 2 and 3 gpm respectively with exceptional wells producing up to 26 gpm. Wells which do not intersect open joints or bedding planes will not produce sufficient water for domestic purposes. Those wells which are drilled in the valley bottom areas are more likely to intersect such openings than wells drilled on the ridges or hillsides.

Yields of wells decrease significantly at depths greater than approximately 150 feet. At these greater depths, fractures are generally less open than near surface fractures. Therefore, water production capabilities are lower because groundwater movement (and the occurrence of groundwater) in this area is generally controlled by secondary porosity (due to fractures).

According to Stoner et al (1987), median spring discharges within the Greene and Washington formations are approximately 0.25 and 0.50 gpm, respectively. Spring discharges are generally less than 1 gpm and many springs are intermittent - no flow will occur after periods of low precipitation.

In Greene County, the major groundwater problems are associated with high levels of iron, manganese and hardness. Problems regarding high concentrations of hydrogen sulfide gas and methane gas are present but not widespread. The excessive concentrations of manganese and iron that are present within many of the water bearing strata in the county are generally due to oxidation rather than coal mining processes.

Studies by Stoner et al (1987) concluded that within the Greene Formation, 75% of the groundwater samples contained excessive amounts (as compared to EPA recommended levels) of manganese and iron. Within the Washington Formation, iron manganese contents were excessive in 50% of the samples. Within the Greene and Washington formations approximately 50 percent of the groundwater samples were hard.

Groundwater from units below the level of active groundwater circulation is apparently widely affected by oil field brine and is considered unfit for most uses due to high salinity. The actual depth to saline water is not accurately known but is probably greater than 200 feet below the level of major surface drainage. This depth most likely varies over the area depending on the location of gas wells and the local topography. The Monongahela Group is definitely affected, while the status of the Waynesburg Formation is unknown.

Alternate water supplies will be obtained by replacing shallow wells with deeper wells. The deeper wells will be of similar quality and quantity as compared to the existing wells.

g) The impact of past mining activities on the quality and quantity of local water resources.

<u>Groundwater Quantity</u> - As discussed earlier, the occurrence and movement of groundwater within and adjacent to the proposed permit area is controlled by secondary porosity (i.e., fractures) rather than primary porosity which is a factor of the shape, size, size distribution and cementing of grains. Therefore, any activity (such as mining) that can alter the fracture patterns within an aquifer and the underlying strata can potentially affect groundwater quantities.

In general, deep mining activities can have a range of effects on groundwater supply quantities that depend on the mining techniques, separation distance between the aquifer and the mine, and the local geologic conditions. Experience at the Cumberland Mine (located to the east of the proposed permit area) has been that open fractures generally are not encountered in the mine, probably the result of the

great depth of the mine below the surface. This lack of groundwater inflow is illustrated by the low rate of mine water inflow (0.25 gpm/acre).

Few residents that reside above active portions of the existing Cumberland Mine have experienced loss of water (allegedly due to mining effects). Historically, experience at the Cumberland Mine shows that the water producing capabilities of damaged wells is generally restored within a period of one year. In the past, Cumberland Mine provided temporary water supplies to residents who have lost their well supplies until the existing well was rejuvenated or a new source was developed.

Groundwater Quality - Within the proposed underground permit area, the Pittsburgh Coal seam is greater than 700 feet below ground surface. Residents within the proposed permit area obtain their water supplies from wells that are generally less than 100 feet deep. Therefore, the wells are generally several hundred feet above the level of mining. Mine water at the existing Cumberland Mine is generally of relatively good quality. In addition, even if severe impacts on water quality were to occur in the mine (this is not expected), groundwater supplies are separated from mine water due to the generally shallow nature of water wells and the depth of mining (>700 feet below ground).

h) Document the nature of water problems or peculiar conditions associated with the operation (zones of high inflow, breached barriers, drainage conduits from other workings, etc.)

There have been no water problems or peculiar conditions associated with past mining activities at the Cumberland Mine.

8.2 Hydrologic Data Map.

Provide a 7.5 minute USGS map showing the following information. Include a legend indicating map title, activity name, coal seam to be mined, company name, township, county, scale, quadrangle name, and date.

a) Permit boundaries of the proposed activity (underground permit area boundaries in the case of an underground mine).

Refer to the Hydrologic Data Map, Exhibit 8.2, at the end of this module.

b) Outline(s) and openings of underground mines and surface mines within 1000 feet of the proposed permit area (show permit limits in cases where adjacent mining has not yet transgressed into the review area).

Refer to the Hydrologic Data Map, Exhibit 8.2, at the end of this module.

c) Seeps and discharges from mines which lie above, below, or within 1000 feet of the permit area.

There are no seeps and discharges from mine workings which lie above, below, or within 1,000 feet of the proposed underground permit area.

d) Sources of public water supply within 1 mile of the permit boundary.

Per the letter from the PADEP dated May 27, 2008, there are no public water systems that have surface water intakes within approximately ten miles down stream or ground water sources (spring or well) within one half (1/2) mile of the proposed underground permit area.

e) Proposed point source discharges.

Refer to the Hydrologic Data Map, Exhibit 8.2, at the end of this module.

f) Proposed groundwater and surface water background and life-of-mine monitoring points.

Refer to the Hydrologic Data Map, Exhibit 8.2, at the end of this module for existing and proposed life-of-mine monitoring points.

g) Fold axes.

Refer to the Hydrologic Data Map, Exhibit 8.2, at the end of this module.

h) Geologic faults.

There are no geologic faults within the proposed underground permit boundary.

i) Fracture traces.

Refer to the Hydrologic Data Map, Exhibit 8.2, at the end of this module.

j) Outcrop of coal seam to be mined.

The coal seam being mined (Pittsburgh) does not outcrop within the proposed underground permit boundary.

k) Structure contours of the coal seam to be mined.

Refer to the Hydrologic Data Map, Exhibit 8.2, at the end of this module.

l) Lines of geologic cross section (key to 7.2).

Refer to the Hydrologic Data Map, Exhibit 8.2, at the end of this module. Geologic Cross Sections are provided with Module 7.0 as Exhibits 7.2A and 7.2B as part of this permit application.

8.3 Inventory Information.

a) Well and spring inventory -

1) Using Form 8.3A provides inventory data on all well and spring supplies which are located within 1000 feet of the permit area (underground permit area in the case of an underground mine).

Refer to Form 8.3A at the end of this module.

2) If the application is for an underground mine and mining operations will encroach within 2,000 feet of a well or spring which serves as a significant source of public water supply, identify the horizontal and vertical extent of the aquifer which feeds it on the map in Exhibit 22.4 and the cross sections in 7.2. Attach a description of how this determination was made including all relevant pumping test results, water level measurements, geologic considerations, drawdown calculations, etc.

Per the letter from the PADEP dated May 27, 2008, there are no public water systems that have surface water intakes within approximately ten miles down stream or ground water sources (spring or well) within one half (1/2) mile of the proposed surface mining activity sites.

b) Stream inventory -

1) Using Form 8.3B provide inventory information for the following streams.

i) For streams which will receive discharges from the proposed activity provide the name, designated uses from 25 Pa Code Chapter 93, and general quality characteristics.

Refer to the Slope and Shaft tab of Module 8.3 (b)1(i)

ii) For streams which flow over the underground permit area of a proposed underground mine or within 200 feet of the underground permit boundaries, provide the name, flow characteristics (i.e., intermittent or perennial according to §89.141), average annual flow, surveyed uses, and general quality characteristics. Use the "segment" block to subdivide the stream into segments of similar flow characteristics and uses. Show all stream segments on the map in Exhibit 6.3. Also, list the

basis for flow characterization, i.e. how was a given stream or segment determined to be nonperennial.

Refer to Form 8.3B at the end of this module.

iii) For streams which lie within 1000 feet of a proposed coal refuse disposal site, coal preparation site, or surface activity site, provide the name, flow characteristics (i.e., ephemeral, intermittent, or perennial according to §87.1), designated uses from 25 Pa. Code Chapter 93, and general quality characteristics.

Refer to Slope and Shaft Module 8.3 (b)1(iii)

2) For a stream with a public water supply intake within 10 miles downstream of a site provide the following information, as specified.

i) If the stream will receive discharges from the proposed operation or lies within the site of a valley fill refuse disposal operation, provide a map of appropriate scale showing the location of the intake with respect to the site.

ii) If the stream is perennial according to §89.141 and flows over the underground permit area of a proposed underground mining operation or within 200 feet of the underground permit boundaries, provide either:

- A map of appropriate scale showing the respective drainage areas of the stream at the downstream limit of mining and at the point of intake; or
- the respective drainage areas (acres or square miles) at the downstream limit of mining and at the point of intake.

Per the letter from the PADEP dated May 27, 2008, there are no public water systems that have surface water intakes within approximately ten miles down stream or ground water sources (spring or well) within one half (1/2) mile of the proposed underground mine permit area.

c) Adjacent mine discharges - Using Form 8.3C, list all discharge points from any adjacent underground, coal refuse operation, or surface mine which lies above, below or within 1000 feet of the permit area (underground permit area if application is for an underground mine). Include the mine name, description of the discharge, elevation, contributing pool level, range of flow rates, quality, and an indication of whether or not the discharge is treated.

There are no known discharges from coal refuse operations or surface mines within 1,000' of the U/G permit boundary. At this time, there are no active underground workings within 1,000' of the proposed Foundation Mine permit boundary. However, the Cumberland West amendment is proposed to abut the Foundation Mine boundary on the east. At this time, there are no active discharges from the Cumberland West Mine, and no discharges are proposed.

d) Lake, pond and dam information - Using Form 8.3D, provide information on all lakes ponds, dams and impoundments which lie within 1000 feet of the permit area (underground permit area if application is for an underground mine).

Refer to Form 8.3D provided as part of this permit application for pond and dam information which lie within 1,000 feet of the proposed underground and subsidence control plan permit areas.

e) Public water supplies (community and noncommunity)

1) List the names and addresses of all public water supplies with water intakes within 10 miles downstream along any stream which will receive discharges from the permitted activity or flows over the underground permit area.

Per the letter from the PADEP dated May 27, 2008, there are no public water systems that have surface water intakes within approximately ten miles down stream or ground water sources (spring or well) within one half (1/2) mile of the proposed underground mine permit area.

2) List the names and addresses of all public water supplies with groundwater or surface water sources within 1 mile of the permit area.

Per the letter from the PADEP dated May 27, 2008, there are no public water systems that have surface water intakes within approximately ten miles down stream or ground water sources (spring or well) within one half (1/2) mile of the proposed underground mine permit area.

3) List the names and addresses of all public water supply systems with service lines over the underground permit area.

There are no public water supply systems with service lines over the proposed underground permit area associated with this permit application.

8.4 Background Sampling and Measurements.

Provide the results of water quality analyses, pumping tests, water level and flow measurements on Forms 8.4A and 8.4B sufficient to describe the groundwater and surface water resources of the permit and adjacent areas. Where information is not available from existing wells the applicant must drill test holes, wells, or piezometers to obtain the required data. The results should meet the specifications set forth below. Background monitoring points must be clearly marked and identified in the field. The field identification scheme should correspond with the identification scheme in the application.

a) Sampling/measurement points - The background sampling and measurement program should address the following points.

1) Each stream which will receive a discharge from the proposed operation (up and downstream of discharge).

2) Streams, springs and wetlands that are representative of the surface and groundwater systems in the general area.

3) All streams, springs, and wetlands within 1000 feet of a surface mining activity site.

4) Wells and piezometers used to determine groundwater conditions in the permit (surface and underground) and adjacent areas.

5) Discharges from adjacent surface mines and underground mines with workings that lie beneath or within 1000 feet of surface mining activity site.

6) Discharges from adjacent underground mines with workings that lie above, below, or within 1000 feet horizontally of the underground permit area of a proposed underground mine.

7) Each impoundment within 1000 feet of a surface mining activity site.

b) Required parameters -

1) Wells and piezometers must be sampled for the following minimum set of parameters: total dissolved solids or specific conductance corrected to 25°C, pH, total iron, total manganese, alkalinity, acidity, sulfates, and water level.

2) Springs, streams, wetlands, seeps, impoundments, underground mine discharges and surface mine discharges must be sampled for the following minimum set of parameters: total dissolved solids or specific conductance corrected to 25°C, total suspended solids, pH, total iron, total manganese, total aluminum, alkalinity, acidity, sulfates, and flow.

c) Sampling period and frequency - All points included in the background sampling program must be sampled in a manner which provides an accurate representation of average conditions and seasonal variations. At a minimum, samples and measurements must be taken at monthly intervals over a period of six successive months including at least one sample from the low flow period which typically extends from August to October. An application may be accepted with a minimum of three monthly sampling and measurement reports per point, however, a permit will not be issued until at least six reports are provided.

d) Special Background Sampling and Measurement Requirements -

1) In cases where underground mining operations are planned to encroach within 200 feet horizontally of stream which is shown as perennial or intermittent on the USGS 7.5 minute quadrangle map, an operator may be required to take flow measurements or photographs to determine where the stream is perennial and where it is intermittent (according to §89.141); and to take additional flow measurements at a comparison site where geology, cover thickness and mining are similar. The need for this information should be discussed with the Department at the pre-application conference.

2) In cases where a coal refuse disposal area is proposed within a stream valley, an operator will be required to submit flow and biological survey results to document whether the stream is ephemeral, intermittent, or perennial (according to §90.1) at the point of impact, and whether it is capable of supporting its designated uses under 25 Pa. Code Chapter 93.

Baseline groundwater quality and quantity has been established using data from water supplies located within a minimal distance of 1,000 feet of the project site. Water supply locations are presented on the 6.3 Environmental Resource Map. Water quality data and flow data are presented in Form 8.4A attached to this module. Where possible, two rounds of sampling are presented for all available wells and springs.

8.5 Prediction of Hydrologic Consequences/Protection of Hydrologic Balance.

a) For underground mining activities -

1) Describe the quality and volume of mine drainage which is anticipated at the end of the 5-year permit period and upon complete development of the planned mine. Describe the methodology and/or calculations used to estimate the drainage characteristics.

The prediction of hydrologic consequences is based upon experience at the Cumberland Mine located immediately east of the proposed permit area.

On the average, Cumberland Mine pumps out about 975 gpm for a period of 17 hours per day or approximately 994,500 gpd. This flow estimate was obtained by using the pumping rates at the No.1 Shaft bottom (850 gpm) and the No. 3 Bleeder Shaft (125 gpm) and the hours of operation for each respective pump. The area of the active mine contributing this water is approximately 2,900 acres. This is equivalent to an inflow rate into the mine workings of about 343 gallons/day/acre or 0.25 gpm/acre. Adjacent mine workings, Emerald and Robena are thought to be contributing to the total inflow, although measurement is not feasible. Since the geology, hydrology and mining methods for the proposed permit area are similar, this inflow rate of 355 gallons/day/acre is not expected to change significantly for the 5-year period. Therefore, inflow, and subsequent drainage from the proposed permit area shown to be mined within this permit application (approximately 9,438 acres) will be approximately 3,350,490 gal/day.

Formation of acid mine drainage is presently nonexistent due to the relatively low sulfur content of the Pittsburgh Coal seam and the alkaline nature of the local groundwater. There is no reason to suspect that the quality of the mine discharge will change drastically in the future for the proposed permit acreage.

2) Estimate the postmining pool level, and indicate the basis for this estimate.

The geological setting of the proposed permit area lends itself to eventual post-mining flooding since the position of the workings are hundreds of feet (700 to 1,350 feet) below surface drainage.

The maximum post mining pool elevation for the mine will be approximately 350 feet above sea level. This elevation corresponds to the highest elevation within the existing and proposed underground mine permit boundary.

3) Describe the barrier pillars which will be left around the perimeter of the mine to promote flooding, and the basis for the barrier design. Barrier pillar design must be customized to fit site conditions. Provide data gathered at the site which confirms assumptions regarding barrier width and integrity.

Foundation Mine shall maintain a minimum of an 80 foot barrier between the development mining and the permit boundary. Barriers less than this under similar conditions have been approved in other permits on file with the PA DEP, California Office. The Cumberland Mine nearby also shall maintain a minimum barrier width of 80 feet between the development mining and the permit boundary. Thus, a 160 foot barrier shall be be maintained between the two mines. In addition, the Cumberland Mine is experiencing no problems with the barrier integrity based upon the fact that the abandoned works of the Cumberland Mine are showing no signs of failure. Also, the structural integrity of the barriers is preserved by the existence of adequately designed coal pillars to be left intact in development mining adjacent to the barriers.

4) Provide a narrative description addressing the following concerns and how each will be prevented or mitigated.

i) The potential for postmining pollutional discharges to occur from the proposed mine, with particular attention to areas with thin and/or fractured overburden.

The maximum pool level of the proposed mine will be drastically lower than the overburden level. Therefore, there is no potential for postmining pollutional discharges to areas with thin or fractured overburden.

ii) The potential for the post closure mine pool to cause or contribute to discharges from adjacent mines.

There are no openings proposed from the Foundation Mine to any adjacent mines. The nearby Cumberland Mine shall also maintain a minimum 80 foot barrier and has no proposed no discharges into any adjacent mine. In the areas yet to be mined and already mined, a coal barrier is or will be maintained within the permit boundary thereby containing the post closure mine pool to the Foundation Mine.

Since barriers are to be maintained around the periphery of the mine area where adjacent mining shall occur and since adjacent mining is primarily located upgradient of the proposed permit acreage, the potential for contamination and flooding of the adjacent from the Foundation Mine is minimal. In addition, upon complete inundation of the Foundation Mine workings, the potential for the development of acid mine drainage contamination is further reduced by inhibiting the oxidation of the pyretic materials.

iii) The potential for seepage along downgradient outcrops of the mined seam and adjacent aquifers.

The potential for seepage along down gradient outcrops of the Pittsburgh Coal seam is minimal. The Pittsburgh Coal seam outcrops several miles to the south, and gradient changes are numerous due to the regional structural geology (i.e. Whiteley Syncline, Belle Vernon Anticline, Waynesburg Syncline, and Amity Anticline).

iv) Water quality impacts on streams which will receive mine drainage and runoff from surface activity sites.

Refer to the Slope and Shaft tab of Module 8.5 (a)4(iv)

v) Flow reduction in streams which overlie the underground permit area (the discussion must specifically address streams which serve as significant sources of public water supply, and streams where cover is less than 400 feet).

Within the proposed permit area, there will be a minimum vertical separation of at least 700 feet between the mine workings and surface drainage elevation. Therefore, it is not anticipated that surface flow regimes will be significantly impacted. Furthermore, previous mining activities at the adjacent Cumberland Mine have not adversely affected stream quantities.

Per the letter from the PADEP dated May 27, 2008, there are no public water systems that have surface water intakes within approximately ten miles down stream or ground water sources (spring or well) within one half (1/2) mile of the proposed underground mine permit area.

vi) The potential for altering the hydrology of dams, ponds, impoundments, and wetlands which overlie the underground permit area. Wetlands deemed to be at risk must be further characterized as outlined in Module 15.4(f).

As discussed above, the large vertical separation (at least 760 feet minimum) should preclude any adverse effects that mining activities may have on the dams, ponds, impoundments and wetlands which overlie the underground permit area.

vii) Groundwater contamination and effects on water supplies at surface sites where coal or spoil will be stored or treatment ponds will be located and near shafts, slopes and drift openings.

Not applicable.

viii) Postmining pollutional discharges from areas which will be surface mined and/or reclaimed under this permit

Not applicable. There are no areas proposed to be surface mined and/or reclaimed under this permit submittal.

5) Describe the probability of depleting or contaminating well and spring supplies as a result of underground coal extraction, and the measures which will be taken to restore or replace impacted supplies. Include a demonstration that the quantity and quality of any proposed replacement supply will be sufficient to meet the needs of the water supply use. Address the potential for mining-induced material damage to public water supply aquifers and bodies of water which are sources for public water supplies. If there is a significant potential for damage, then describe the measures which will be employed to minimize the potential impacts.

Based upon the depths of wells, geologic conditions, and overburden thicknesses, it is anticipated that the future effects of mining will be similar to the effects that past mining at the adjacent Cumberland Mine had upon local groundwater supplies (in terms of quantity and quality). Since the depths of the existing wells are located above the Pittsburgh Coal seam, a replacement well drilled to the same depth is anticipated to produce the same quantity and quality and will be sufficient to meet the needs of the water supply use.

However, in the unlikely event that water supply loss does occur, Foundation will comply with the requirements specified in Act 54. Foundation will transport potable water to the resident and establish a temporary water storage facility until the original water source is rejuvenated or

a new source is developed as outlined in Act 54. In the event that a new water supply needs to be developed, Foundation will review viable options for replacement on a case-by-case basis. These options include drilling the existing well deeper (if applicable), drilling a new well or developing springs.

Per the letter from the PADEP dated May 27, 2008, there are no public water systems that have surface water intakes within approximately ten miles down stream or ground water sources (spring or well) within one half (1/2) mile of the proposed underground mine permit area.

b) For Coal Preparation Activities -

1) Describe the manner in which process water from the coal preparation circuit will be handled and the circumstances under which it may be discharged.

2) Provide a narrative description addressing the following concerns and how each will be prevented or mitigated.

i) Water quality impacts on streams which will receive discharges from site activities.

ii) Groundwater contamination resulting from treatment pond leakage or infiltration of water contaminated by surface mining activities.

iii) The contamination of adjacent water supplies (address the measures which will be taken to restore or replace impacted supplies).

iv) Include a demonstration that any proposed replacement supply will meet the quantity and quality needs of the current water supply user.

Coal preparation activities are not being proposed as part of this application.

c) For Coal Refuse Disposal Activities -

1) Describe the nature and anticipated quality of all discharges which will emanate from the refuse pile and underdrains.

2) Provide a narrative description addressing the following concerns and how each will be prevented or mitigated.

i) Water quality impacts on streams and wetlands which will receive discharges from site activities.

ii) Groundwater contamination resulting from treatment pond leakage or infiltration of water that has come into contact with coal refuse or coal ash.

iii) The contamination of adjacent water supplies (address the measures by which will be taken to restore or replace impacted supplies). Include a demonstration that any proposed replacement supply will meet the quality and quantity needs of the water supply user.

iv) Contaminated seepage or underdrain discharges following site closure.

8.6 Hydrologic Monitoring Plan.

Monitoring points must be clearly marked and identified (with durable markers) in the field. The field identification scheme should correspond with the identification scheme in the application.

a) Complete Form 8.6A identifying the points which will be used in the monitoring program, the parameters to be measured at each point, and the period and frequency of sampling at each point. (At a minimum, chemical sampling and water level or flow measurements must be conducted and reported to the Department every three months for each monitoring location).

Refer to Form 8.6A at the end of this module.

The hydrologic monitoring plan for mining activities associated with this permit application consists of the following:

- ***Six (6) proposed groundwater level (piezometer) points,***
- ***eleven (11) proposed groundwater quality monitoring points, and***
- ***eighteen (18) stream monitoring points.***

Flow and quality measurements will be taken at proposed points to monitor the effects of mining, if any, on streams within the additional permit and subsidence control plan area.

b) Attach a narrative describing how the proposed monitoring points relate to the detection and mitigation of impacts discussed under 8.5.

Refer to the Environmental Resource Map presented in Module 6.3 and the Hydrologic Data Map in Module 8.2 for locations of monitoring points. The monitoring points are sampled prior to mining to determine unmined hydrologic conditions and to establish a database to which future data can be compared regarding groundwater and surface water quality and quantity. Data from monitoring samples collected during mining then can be compared to the unmined samples to assess the impact mining is having, if any, upon local groundwater and surface water resources. The piezometers will be installed one year in advance of mining.

Additional private water supplies within and adjacent to the proposed subsidence control plan boundary also have been sampled to determine hydrologic conditions prior to mining. As suggested by the Department (PADEP), two sets of samples were obtained, when possible, for comparing subsequent post-mining data regarding adverse impacts due to mining.

c) Describe how flows from springs, streams, and mine discharges will be measured.

Surface water flows such as spring and stream flows will be measured with a calibrated bucket and a stop watch, when possible.

d) Describe how samples will be taken, preserved, and shipped to the laboratory.

Samples will be collected in sterilized bottles (using techniques that will not introduce contamination), iced, and shipped within 24 hours to the testing facility. For the portion of the sample that will be analyzed for metals, acid preservation will be used. In the field, pH and temperature will be measured.

e) Indicate the name and address of the laboratory which will perform analyses.

Testing is expected to be performed by one of the following:

H & H Water Controls, Inc. ***102 Olympic Street*** ***Carmichaels, PA 15320-1053***	***Industrial Lab Analysis*** ***2240 Williamsburg Farm*** ***P.O. Box 81*** ***Glen Dale, WV 26038***

f) Provide the name and credentials of individual(s) performing well pumping tests.

Not applicable. No well pumping tests were performed as part of this permit application.

g) Address the scope, location, and frequency of postmining monitoring, e.g., mine pool level monitoring.

Monitoring will continue monthly until 6 months of samples (and 24 months of flow measurements) are obtained for initial permit monitoring. Monitoring will then continue quarterly until termination upon reclamation of the site or as approved by the department.

8.7 Water Supply Impacts - Premining Surveys.

Provide premining quality and quantity information for all water supplies which may be affected by mining activities. For underground mines, data must be collected prior to the mining encroaching within 1,000 feet of the supply. Applicants are encouraged to survey sufficient supplies in and adjacent to the 5-year subsidence control plan to avoid mining delays. Survey information should include:

a) location and type of water supply;

b) existing and planned future uses of the water supply;

c) chemical and physical characteristics of the water, including, at a minimum, total dissolved solids or specific conductance, pH, total iron, total manganese, hardness, total coliform, acidity, alkalinity, and sulfate;

d) water quantity (well yield or spring flow) (use form 8.4B to supply well data);

e) physical description of the water supply, including the depth and diameter of the well, length of casing, static water level, and description of any treatment or distribution system.

Quality sampling should consist of at least two (2) distinct samples preferably taken during wet and dry times.

Spring flow data (item d) above) should consist of a minimum of two (2) flow measurements - one during a wet period and a second during a dry period.

Well yield data (item d) above) must be gathered through a standardized, reproducible pumping exercise. This will allow for meaningful premining/postmining survey comparisons. Please contact the appropriate District Mining Office prior to conducting the yield test to avoid wasting resources on unacceptable test methods. (DEP's technical guidance titled "Water Supply Replacement and Permitting" (563-2112-605) is available on the Department's web site and provide guidelines for determination of well yield.)

Water supplies have been inventoried and sampled, where permission was granted, within at a minimal 1,000 feet of the proposed permit boundary. Impact on the supplies is not anticipated by the operations proposed with this application due to the reasons given in Item 8.1f above. Well yield data will be gathered and provided prior to the mining encroaching within 1,000 feet of the supply.

ATTACHMENT 8.2

PUBLIC WATER SUPPLY INFORMATION

Pennsylvania Department of Environmental Protection

Water Standards and Facility Regulation
100 New Salem Road, Suite 175
Uniontown, PA 15401
May 27, 2008

UNIONTOWN DISTRICT OFFICE

PHONE:724-439-7331
FAX: 724-439-7352

Penn E & R
Attn: Ronald F. Doumont
359 Northgate Dr., Suite 400
Warrendale, Pa. 15086

Re: Public water sources and intakes down stream from proposed site for Surface & Deep mining activities in Franklin, Center & Jackson Townships, Greene County.

Dear Mr. Doumont,

Based on the maps you sent me of the proposed mining refuse sites, there are no surface sources for public water within ten (10) miles down stream and there are no ground water sources with in one half (1/2) mile of the proposed site(s).

If you require any further information, please contact me at the above number.

Sincerely,

Pamela P. Russell
Sanitarian

Penn E&R
Environmental & Remediation, Inc.

May 9, 2008
4000-PA4330

VIA CERTIFIED MAIL:
7007 2680 0003 2002 3686

Pam Russell
Pennsylvania Department of Environmental Protection
Bureau of Water Supply and Community Health
100 New Salem Road, Suite 175
Uniontown, PA 15401-8938

RE: Public Water Supplies in Jackson and Center Townships, Greene County, Pennsylvania

Dear Ms. Russell:

Penn Environmental & Remediation, Inc. (Penn E&R) in part with Michael Baker Jr., Inc. (Baker) is in the process of preparing an underground mining permit application for a location in Jackson and Center Townships, Greene County, Pennsylvania. As part of the permitting process, the California District Office of the PADEP is requesting the location, name and address of all public water supplies in the vicinity of our proposed permit area (within 1,000 feet).

Module 8 of the PADEP Application for Bituminous Underground Mine, Coal Preparation Plant and or Coal Refuse Disposal Area, also requires the identification of public water supply intakes within 10 miles downstream of a site.

Penn E&R is responsible for the underground portion of the permit application while Baker is responsible for the surface mining activity sites associated with the underground mine (slope and shaft sites). In a letter dated December 5, 2007, your office provided the necessary information to Baker relative to the shaft and slope sites. We are requesting the same information for the proposed underground mine permit area. Enclosed please find a project narrative and a location map showing the project boundary.

Please note that these projects are in the beginning, planning stages of development and are, therefore, confidential in nature at this point in time. I appreciate your help with this matter. If you have any questions or require additional information please do not hesitate to contact me at 724-934-3530.

Sincerely,
PENN ENVIRONMENTAL & REMEDIATION, INC.

Ronald Doumont/sw

Ronald F. Doumont
Senior Project Manager

Enclosures

Q:\P4000\PA4330\Notifications_5-2008\PADEP-PublicWaterSupplies.doc

Attachment to Bureau of Water Supply and Community Health Letter

Project Narrative:	Foundation Mining, LP plans to develop a new longwall underground mine with shaft and slope facilities to be located in Southwestern Greene County, Pennsylvania. Site development will consist of pads for proposed shaft and slope facilities, stockpile areas, and a site access road for each site. Drainage design and E&S controls for the surface facilities will be incorporated with surface design in the permit application and preparing and obtaining the required PADEP, SMCRA, and NPDES permit for the proposed facilities.
Proposed Underground Mine Acreage:	9,438 acres
Project Location:	Jackson and Center Townships, Greene County, Pennsylvania

7007 2680 0003 2002 3686

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City, State, ZIP+4: UNIONTOWN PA 15401

PS Form 3800, August 2006 — See Reverse for Instructions

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1. Article Addressed to:

Ms. Pam Russell
PA Dept. of Environmental Protection
100 New Salem Road, Suite 175
Uniontown, PA 15401

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X C. Dunn ☐ Agent ☐ Addressee

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Physiochemical Data, Biological Score and Habitat Data from Appendix B Sampling Stations Located in South Fork Ten Mile Creek High Quality Stream of Foundation Mine; Greene County, PA. (Spring 2007 Round #1)

Station	pH	D.O. (mg/L)	Conductivity (uohms)	Temp (°C)	Total Biological Score (Mean of adjusted values)	Habitat Score (Total/200*100=)
Garner Run						
GAR 1	8.49	19.9	193	5.9	80.9	149 (75% sub-optimal)
House Run						
HOU 1	8.62	19	190	7.0	57.4	106 (53% marginal)
HOU 2	8.05	5.99	169.4	12.8	68.2	128 (64% sub-optimal)
HOU 5	8.01	6.19	175.7	13.9	65.7	148 (74% sub-optimal)
HOU 6	7.81	6.83	178.5	13	78.2	110 (55% sub-optimal)
HOU 12	7.83	11.85	162.6	12.8	52.7	94 (47% marginal)
HOU 13	7.65	8.78	165	13.7	82.3	129 (65% sub-optimal)
HOU 14	7.6	9.54	148.7	12.3	63.2	122 (61% sub-optimal)
HOU 15	7.7	7.5	149.6	13.4	63.7	116 (58% sub-optimal)
Hoge Run						
HOG 1	8.48	2.88	142	10.1	52.1	88 (44% marginal)
HOG 2	7.96	2.76	167	11.8	7.3	70 (35% marginal)
HOG 3	8.13	2.83	150	12	60.1	70 (35% marginal)
McCourtney Run						
MCR 2	6.6	18.0	184.0	8.6	77.0	91 (46% marginal)
MCR 3	6.5	19.8	182.0	6.8	37.8	147 (74% sub-optimal)
MCR 4	6.6	17.4	190	10.3	23.4	141 (71% sub-optimal)

Physiochemical Data, Biological Score and Habitat Data from Appendix B Sampling Stations Located in South Fork Ten Mile Creek High Quality Stream of Foundation Mine; Greene County, PA. (Spring 2007 Round #2)

Station	pH	D.O. (mg/L)	Conductivity (uohms)	Temp (°C)	Total Biological Score (Mean of adjusted values)	Habitat Score (Total/200*100=)
Garner Run						
GAR 1	7.8	9.3	286	18.7	43.1	140 (70% sub-optimal)
House Run						
HOU 1	8.32	9.90	221	22.3	52.4	134 (67% sub-optimal)
HOU 2	8.30	10.95	181	22.4	45.8	149 (75% sub-optimal)
HOU 5	7.93	9.24	194	19.7	49.8	135 (68% sub-optimal)
HOU 6	7.91	9.08	188	19.1	63.9	117 (59% sub-optimal)
HOU 12	7.92	8.26	168.2	17.9	47.1	128 (64% sub-optimal)
HOU 13	7.83	10.03	174	16.8	59.0	142 (71% sub-optimal)
HOU 14	7.95	9.98	169	15.9	44.2	117 (59% sub-optimal)
HOU 15	7.83	9.89	194.6	15.7	62.7	126 (63% sub-optimal)
Hoge Run						
HOG 1	7.94	7	257	25.1	62.6	127 (64% sub-optimal)
HOG 2	7.8	8.2	314	17.9	19.2	138 (69% sub-optimal)
HOG 3	7.68	8	233	22.3	31.7	139 (70% sub-optimal)
McCourtney Run						
MCR 2	8.11	10.1	266	24.3	40.5	124 (62% sub-optimal)
MCR 3	8.22	9.8	266	24.2	56.7	146 (73% sub-optimal)
MCR 4	8.03	8.6	289	25.8	31.8	116 (58% sub-optimal)

Physiochemical Data, Biological Score and Habitat Data from Appendix B Sampling Stations Located in South Fork Ten Mile Creek High Quality Stream of Foundation Mine; Greene County, PA. (Fall 2007)

Station	pH	D.O. (mg/L)	Conductivity (uohms)	Temp (°C)	Total Biological Score (Mean of adjusted values)	Habitat Score (Total/200*100=)
Garner Run						
GAR 1	7.14	12.94	189.8	7.4	18.8	137 (69% sub-optimal)
House Run						
HOU 1	7.01	12.56	151.9	7.1	15.5	102 (51% sub-optimal)
HOU 2	6.88	13	140.9	7.2	24.5	159 (80% optimum)
HOU 5	7.8	13	262	7.2	42.1	112 (56% sub-optimal)
HOU 6	7.74	11.3	252	8.4	48.5	117 (59% sub-optimal)
HOU 12	7.87	14.9	281	5.4	30.5	108 (54% sub-optimal)
HOU 13	7.81	13.3	228	7.2	65.7	118 (59% sub-optimal)
HOU 14	6.67	21.28	114.4	8.3	43.1	133 (67% sub-optimal)
HOU 15	7.8	13.2	220.0	5.9	76.4	131 (66% sub-optimal)
Hoge Run						
HOG 1	6.91	13.4	182.1	7.3	40.3	119 (60% sub-optimal)
HOG 2	6.79	13.12	224	7.4	21.5	135 (68% sub-optimal)
HOG 3	6.55	14.02	192.9	7.8	36.1	90 (45% sub-optimal)
McCourtney Run						
MCR 2	7.1	12.57	173.9	7.0	1.3	110 (55% sub-optimal)
MCR 3	7.1	13.0	172.9	7.1	1.3	141 (71% sub-optimal)
MCR 4	7.7	12.1	339	7.01	33.5	126 (63% sub-optimal)

Physiochemical Data, Biological Score and Habitat Data from Appendix B Sampling Stations Located in South Fork Ten Mile Creek High Quality Stream of Foundation Mine; Greene County, PA. (Spring 2008)

Station	pH	D.O. (mg/L)	Conductivity (uohms)	Temp (°C)	Total Biological Score (Mean of adjusted values)	Habitat Score (Total/200*100=)
Garner Run						
GAR 1	9.01	21.7	188	15.1	54.0	111 (56% sub-optimal)
House Run						
HOU 1	8.59	15.79	189.2	13.5	40.6	120 (60% sub-optimal)
HOU 2	8.21	15.12	189.4	12.7	28.1	132 (66% sub-optimal)
HOU 5	8.79	14.92	183	12.2	43.3	119 (60% sub-optimal)
HOU 6	8.14	13.52	193	6.7	39.8	118 (59% sub-optimal)
HOU 12	7.90	13.59	169.7	16.6	56.4	141 (71% sub-optimal)
HOU 13	7.64	11.90	167.6	17.2	75.4	120 (60% sub-optimal)
HOU 14	7.45	13.43	157.1	13.5	44.8	135 (68% sub-optimal)
HOU 15	7.61	12.58	154.0	15.8	65.6	134 (67% sub-optimal)
Hege Run						
HOG 1	8.23	20.5	194	11.9	39.1	118 (59% sub-optimal)
HOG 2	8.16	20.4	214	11.6	29.8	110 (55% sub-optimal)
HOG 3	7.97	20.4	210	10.6	36.6	62 (31% marginal)
McCourtney Run						
MCR 2	8.65	16.75	195	13.4	15.5	113 (57% sub-optimal)
MCR 3	8.68	13.2	191	13.2	46.6	146 (73% sub-optimal)
MCR 4	8.75	13.9	205	16.0	46.5	111 (56% sub-optimal)

Macroinvertebrate Data Collected from Appendix B Sampling Stations Located on Hoge Run Foundation Mine in Jackson Township, PA. Spring 2007 Round 1

Taxa Order	Pollution Tolerance Value	Functional Feeding Group	Hoge Run	HOG 1	HOG 2	HOG 3
Ephemeroptera						
Siphlonoridae	7	GC				1
Ameletus	0	GC				23
Heptageniidae	3	SC		1		
Plecoptera						
Perlodidae						
Isoperla	2	PR		2		26
Diploperla	2	PR		2		1
Nemouridae						
Amphinemura	3	SH				3
Trichoptera						
Polycentropodidae						
Cyrnellus	8	FC				2
Hydropsychidae						
Macrostemum	3	FC		1		
Diplectrona	0	FC				4
Rhyacophilidae						
Rhyacophila	1	PR		1		
Uenoidae						
Neophylax	3	SC		1		
Coleoptera						
Elmidae						
Stenelmis	5	SC		21		
Oulimnius	4	SC				1
Gyrinidae						
Gyrinus	4	PR				1
Psephenidae						
Psephenus	4	SC		2		
Diptera						
Chironomidae	6	GC		48	149	67
Simuliidae						
Simulium	6	FC		2		2
Tipulidae						
Limnophila	3	PR		2		4
Tipula	4	SH		1	1	1
Hexatoma	2	PR		2		4
Pseudolimnophilia	2	PR			4	13
Tabanidae						
Tabanus	5	PR				3
Chrysops	7	PR				4
Stratiomyidae						
Stratiomys	5	FC				1
Bivalva						
Sphaeriidae	8	SC			1	3
Crustacea						
Cambaridae	6	GC				2
Annelida						
Oligochaeta	10	GC			4	4
Collembola						
Poduridae						
Podura	9	GC				1
Average Pollution Tolerance Value	4.36		**Total Individuals**	86	159	171
			Species Diversity	13	5	22
			Average Pollution Tolerance Value	3.4	6.0	4.6

Macroinvertebrates Data Collected from Appendix B Sampling Stations Located on McCourtney Run; Foundation Mine in Jackson Township, Greene County PA. Spring 2007 Round 1

Taxa Order	Pollution Tolerance Value	Functional Feeding Group	McCourtney Run	MCR 2	MCR 3	MCR 4
Ephemeroptera						
Heptageniidae	3	SC		2		
Epeorus	0	SC			1	
Ephemerellidae						
Ephemerella	1	GC		1	1	
Eurylophella	4	GC		1	2	
Caenidae						
Caenis	7	GC		2		
Plecoptera						
Perlodidae						
Isoperla	2	PR		4		
Diploperla	2	PR		3		
Cultus	2	PR		3		6
Nemouridae						
Amphinemura	3	SH			3	
Trichoptera						
Polycentropodidae						
Cyrnellus	8	FC				2
Polycentropus	5	PR		3		
Limnephilidae						
Pseudostenophylax	0	SH		3		
Hydropsychidae						
Hydropsyche	5	FC		1		
Potamyia	5	FC		2		
Cheumatopsyche	6	FC			1	
Rhyacophilidae						
Rhyacophila	1	PR		3		
Coleoptera						
Elmidae						
Stenelmis	5	SC		32	2	2
Macronychus	2	OM		1		
Oulimnius	4	SC				5
Psephenidae						
Psephenus	4	SC		4		1
Dryopidae						
Helichus	5	SH			1	
Diptera						
Chironomidae	6	GC		57	32	14
Ceratopogonidae	6	PR		1		
Simuliidae						
Simulium	6	FC		5	4	
Tipulidae						
Limnophila	3	PR		2		
Tipula	4	SH		2		
Hexatoma	2	PR		3		
Pseudolimnophilia	2	PR			1	
Molophilus	4	SH			2	
Tabanidae						
Tabanus	5	PR		1	1	
Empididae						
Hemerodromia	6	PR		10	2	
Bivalva						
Sphaeriidae	8	SC		3		
Annelida						
Oligochaeta	10	GC		1		
Average Pollution Tolerance Value	**4.12**		**Total Individuals**	**150**	**53**	**30**
			Species Diversity	**25**	**13**	**6**
			Average Pollution Tolerance Value	**4.2**	**4.1**	**5.4**

Macroinvertebrate Data Collected from Appendix B Sampling Stations Located on Hoge Run; Foundation Mine, Jackson Township, Greene County PA.Spring 2007 Round 2

Taxa Order	Pollution Tolerance Value	Functional Feeding Group	Hoge Run	HOG 1	HOG 2	HOG 3
Ephemeroptera						
Baetidae						
Baetis	6	GC		3		
Callibeatis	9	GC		4		
Heptageniidae	3	SC		11		
Ephemerellidae						
Ephemerella	1	GC		2		
Eurylophella	4	GC		1		
Caenidae						
Caenis	7	GC		8		
Plecoptera						
Perlodidae						
Isoperla	2	PR		2		2
Diploperla	2	PR			2	
Nemouridae						
Amphinemura	3	SH		1		
Perlidae	3	PR		7		
Beloneuria	3	PR				1
Acroneuria	0	PR		25		
Perlesta	4	PR		8		
Neoperla	3	PR		1		
Trichoptera						
Hydropsychidae	5	FC		12		
Macrostemum	3	FC				1
Potamyia	5	FC		1		
Cheumatopsyidae	6	FC		34		
Coleoptera						
Elmidae						
Stenelmis	5	SC		63		1
Oulimnius	5	SC		1		
Hydrophilidae						
Helocombus	5	PR				1
Psephenidae						
Psephenus	4	SC			1	
Diptera						
Chironomidae	6	GC		6	160	30
Simuliidae						
Simulium	6	FC			1	
Tipulidae						
Pseudolimnophilia	2	PR				1
Limonia	6	SH			1	
Ephydridae	6	GC			1	
Megaloptera						
Corydalidae						
Nigronia	2	PR			1	
Lepidoptera						
Lepidoptera	5	SH		1		
Bivalva						
Sphaeriidae	8	FC			1	
Crustacea						
Cambaridae	6	GC		2	1	2
Annelida						
Oligochaeta	10	GC		3		
Average Pollution Tolerance Value	**4.53**		**Total Individuals**	**196**	**169**	**39**
			Species Diversity	**21**	**9**	**8**
			Average Pollution Tolerance Value	**4.7**	**5.5**	**4.0**

MacroInvertebrate Data Collected from Appendix B Samplign Stations located on McCourtney Run; Foundation Mine, Jackson Township, Greene County PA. Spring 2007 Round 2

Taxa Order	Pollution Tolerance Value	Functional Feeding Group	McCourtney Run	MCR 2	MCR 3	MCR 4
Ephemeroptera						
Baetidae						
Baetis	6	GC			12	2
Heptageniidae	4	SC			2	
Caenidae						
Caenis	7	GC		1	3	2
Plecoptera						
Perlodidae						
Isoperla	2	PR				1
Perlidae	3	PR		8	5	
Perlesta	4	PR		24	30	
Acroneuria	0	PR		1		
Beloneuria	3	PR		1	3	
Neoperla	3	PR			2	
Trichoptera						
Hydropsychidae	5	FC			5	
Hydropsyche	5	FC				4
Cheumatopsyidae	6	FC			11	
Cheumatopsyche	6	FC		5		
Coleoptera						
Elmidae						
Stenelmis	5	SC		33	14	16
Microcylloepus	2	GC		1		3
Optioservus	4	SC			2	
Hydrophilidae						
Enochrus	5	GC				1
Dytiscidae						
Dytiscus	5	PR				1
Psephenidae						
Psephenus	4	SC			1	
Diptera						
Chironomidae	6	GC		49	99	32
Ceratopogonidae	6	PR		1	2	4
Simuliidae						
Simulium	6	FC				3
Tipulidae						
Pedicia	6	PR			1	
Antocha	3	GC			2	
Hexatoma	2	PR			1	
Tabanidae						
Tabanus	5	PR				1
Bivalva						
Sphaeriidae	8	SC		32		
Corbiculidae	5	SC		5		
Gastropoda						
Planorbidae	6	OM		2		
Crustacea						
Cambaridae	6	GC				1
Average Pollution Tolerance Value	**4.60**		**Total Individuals**	**163**	**195**	**71**
			Species Diversity	**13**	**17**	**13**
			Average Pollution Tolerance Value	**4.7**	**4.5**	**5.1**

Macroinvertebrate Data Collected from Appendix B Sampling Stations Located on Garner Run, Foundation Mine; Greene County, PA (Fall 2007).

Taxa Order	Pollution Tolerance Value	Functional Feeding Group	Garner Run	GAR 1
Plecoptera (stoneflies)				
Capniidae	3	SH		
Allocapnia	3	SH		1
Marilia	N/A	N/A		
Diptera (true flies)				
Chironomidae	6	GC		16
Average Pollution Tolerance Value	**4.00**		**Total Individuals**	**17**
			Species Diversity	**2**
			Average Pollution Tolerance Value	**4.50**

Macroinvertebrate Data collected from Appendix B Sampling Stations Located on Hoge Run, Foundation Mine; Greene County, PA (Fall 2007).

Taxa Order	Pollution Tolerance Value	Functional Feeding Group	Hoge Run	HOG 1	HOG 2	HOG 3
Ephemeroptera (mayflies)						
Leptophlebiidae	4	GC				1
Caenidae	7	GC				
Caenis	7	GC		2	1	
Plecoptera (stoneflies)						
Capniidae	3	SH				1
Perlodidae	2	PR				
Isoperla	2	PR		2		
Clioperla	2	PR				1
Leuctridae	0	SH				
Leuctra	0	SH				1
Trichoptera (caddisflies)						
Philopotamidae	3	FC				
Chimarra	4	FC		1		
Hydropsychidae	5	FC				
Hydropsyche	5	FC			1	
Cheumatopsyche	6	FC		1		1
Uenoidae	3	SC				
Neophylax	3	SC		1		
Diptera (true flies)						
Chironomidae	6	GC		5	13	14
Ceratopogonidae	6	PR				1
Simuliidae	6	FC		1	2	
Tipulidae	4	SH		1	1	20
Empididae	6	PR		1		
Coleoptera (beetles)						
Psephenidae	4	SC				
Ectopria	5	SC		1		
Bivalva (clams)						
Sphaeriidae	8	FC		2		2
Gastropoda (snails)						
Physidae	8	SC		1	1	1
Lymnaeidae	7	SC		1		
Crustacea (crayfish)						
Cambaridae	6	GC		1		1
Annelida (aquatic worms)						
Oligochaeta	10	GC		12		
Odonota						
Calopterygidae	5	PR				
Calopteryx	6	PR			1	
Average Pollution Tolerance Value	**4.77**		**Total Individuals**	**33**	**20**	**44**
			Species Diversity	**15**	**7**	**11**
			Average Pollution Tolerance Value	**5.87**	**6.00**	**4.82**

Macroinvertebrate Data Collected from Appendix B Sampling Stations Located on McCourtney Run, Foundation Mine; Greene County, PA (Fall 2007).

Taxa Order	Pollution Tolerance Value	Functional Feeding Group	McCourtney Run	MCR 2	MCR 3	MCR 4
Ephemeroptera (mayflies)						
Heptageniidae	3	SC				4
Ephemerellidae	2	GC				
Eurylophella	4	GC				1
Trichoptera (caddisflies)						
Hydropsychidae	5	FC				4
Cheumatopsyche	6	FC				8
Diptera (true flies)						
Chironomidae	6	GC		4	5	25
Ceratopogonidae	6	PR				1
Tipulidae	4	SH				5
Coleoptera (beetles)						
Elmidae	5	GC				
Stenelmis	5	SC				3
Optioservus	4	SC				5
Psephenidae	4	SC				
Psephenus	4	SC				1
Turbellaria						
Planaria	9	N/A				5
Annelida (aquatic worms)						
Oligochaeta	10	GC		1	1	
Average Pollution Tolerance Value	**5.13**		**Total Individuals**	**5**	**6**	**62**
			Species Diversity	**2**	**2**	**11**
			Average Pollution Tolerance Value	**8.00**	**8.00**	**5.09**

Macroinvertebrate Data Collected from Appendix B Sampling Stations Located on Hoge Run, Foundation Mine; Greene County, PA (Spring 2008).

Taxa Order	Pollution Tolerance Value	Functional Feeding Group		HOG 1	HOG 2	HOG 3
Ephemeroptera (mayflies)						
Siphlonoridae	7	GC				
Siphlonurus	7	GC				2
Ameletidae	0	GC				
Ameletus	0	GC				7
Ephemerellidae	2	GC				
Eurylophella	4	GC		1		
Plecoptera (stoneflies)						
Perlodidae	2	PR				
Isoperla	2	PR		15	2	25
Diploperla	2	PR		2		
Chloroperlidae	0	PR				
Sweltsa	0	PR		1		
Nemouridae	0	SH				
Amphinemura	3	SH				8
Leuctridae	0	SH				
Leuctra	0	SH			1	
Trichoptera (caddisflies)						
Hydropsychidae	5	FC				
Cheumatopsyche	6	FC		2	1	
Diplectrona	0	FC				1
Diptera (true flies)						
Chironomidae	6	GC		103	169	98
Simuliidae	6	FC		1		
Tipulidae	4	SH		1	2	3
Empididae	6	PR			1	
Coleoptera (beetles)						
Elmidae	5	GC				
Stenelmis	5	SC		4		1
Psephenidae	4	SC				
Psephenus	4	SC		3		
Bivalva (clams)						
Sphaeriidae	8	FC		1	3	3
Gastropoda (snails)						
Physidae	8	SC		1		
Crustacea (crayfish)						
Cambaridae	6	GC		1		
Annelida						
Oligochaeta	10	GC		9	2	
Hirudinea	8	PR			1	
Average Pollution Tolerance Value	**3.87**		**Total Individuals**	**145**	**182**	**148**
			Species Diversity	**14**	**9**	**9**
			Average Pollution Tolerance Value	**5.07**	**5.56**	**3.89**

Garner Run Bi-Annual Report
Laboratory Analysis Results
Foundation Coal Resources, LP- Foundation Mine

Sampling Season	pH	Alkalinity	Acidity (Hot)	Total Suspended Solids	Specific Conductance @ 25°C	Sulfate	Iron	Manganese	Aluminum
	Chapter 93 Standards								
	6.0-9.0 (S.U.)	20 mg/l minimum (mg CaCO3/L)	N/A (mg CaCO3/L)	N/A (mg/L)	N/A (micromhos/cm)	Maximum 250 mg/l	1.5 mg/l 30 day average	Maximum 1.0 mg/l	Maximum 750 mg/L
Garner Run Station GAR 1									
2007 Spring	7.78	59.53	-37.62	1.0	196	29	0.22	0.03	0.08
2007 Fall	7.01	41.09	-24.75	7	172	24	0.53	0.05	0.42
2008 Spring	7.85	58.57	-31.36	11	194	25	0.21	0.03	0.17
Averages 2007-2008									
Spring & Fall 2007- 2008	**7.55**	**53.06**	**-31.24**	**6.3**	**187**	**26.00**	**0.32**	**0.04**	**0.22**

Hoge Run Bi-Annual Report
Laboratory Analysis Results
Foundation Coal Resources, LP- Foundation Mine

Sampling Season	pH	Alkalinity	Acidity (Hot)	Total Suspended Solids	Specific Conductance @ 25°C	Sulfate	Iron	Manganese	Aluminum
	Chapter 93 Standards								
	6.0-9.0 (S.U.)	20 mg/l minimum (mg CaCO3/L)	N/A (mg CaCO3/L)	N/A (mg/L)	N/A (micromhos/cm)	Maximum 250 mg/l	1.5 mg/l 30 day average	Maximum 1.0 mg/l	Maximum 750 mg/L
Hoges Run Station HOG 1									
2007 Spring	7.61	48.72	-51.56	2	194	27	0.36	0.04	0.21
2007 Fall	6.86	42.72	-12.88	15	163	23	0.76	0.05	0.61
2008 Spring	7.55	71.02	-43.85	3	198	23	0.14	0.02	0.13
Averages 2007-2008									
Spring & Fall 2007- 2008	**7.34**	**54.15**	**-36.10**	**6.7**	**185**	**24**	**0.42**	**0.04**	**0.32**
Hoges Run Station HOG 2									
2007 Spring	7.45	85.36	-63.03	37	230	27	0.97	0.17	0.46
2007 Fall	7.49	46.11	-28.24	22	188	23	0.89	0.1	0.62
2008 Spring	7.55	82.4	-52.36	11	219	21	0.44	0.08	0.27
Averages 2007-2008									
Spring & Fall 2007- 2008	**7.50**	**71.29**	**-47.88**	**23.3**	**212**	**24**	**0.77**	**0.12**	**0.45**
Hoges Run Station HOG 3									
2007 Spring	7.81	76.99	-53.38	101	206	26	0.29	0.05	0.18
2007 Fall	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2008 Spring	7.78	83.36	-52.38	12	216	20	0.59	0.16	0.43
Averages 2007-2008									
Spring & Fall 2007- 2008	**7.80**	**80.18**	**-52.88**	**56.5**	**211**	**23**	**0.44**	**0.11**	**0.31**

House Run Bi-Annual Report
Laboratory Analysis Results
Foundation Coal Resources, LP- Foundation Mine

Sampling Season	pH	Alkalinity	Acidity (Hot)	Total Suspended Solids	Specific Conductance @ 25°C	Sulfate	Iron	Manganese	Aluminum
	Chapter 93 Standards								
	6.0-9.0 (S.U.)	20 mg/l minimum (mg CaCO3/L)	N/A (mg CaCO3/L)	N/A (mg/L)	N/A (micromhos/cm)	Maximum 250 mg/l	1.5 mg/l 30 day average	Maximum 1.0 mg/l	Maximum 750 mg/L
House Run Station HOU 1									
2007 Spring	7.57	55.71	-30.23	1221.0	166	27	3.73	0.31	1.71
2007 Fall	6.87	36.93	-15.42	6.0	135	20	0.4	0.02	0.39
2008 Spring	7.62	56.9	-32.19	3.0	171	22	0.16	0.02	0.12
Averages 2007-2008									
Spring & Fall 2007- 2008	**7.35**	**49.85**	**-25.95**	**410.0**	**157**	**23**	**1.43**	**0.12**	**0.74**

House Run Station HOU 2									
2007 Spring	7.5	47.2	-25.47	4.0	152	23	0.42	0.04	0.37
2007 Fall	6.35	32.96	-14.26	7	126	19	0.59	0.04	0.5
2008 Spring	7.62	57.35	-30.6	3.0	469	22	0.16	0.03	0.13
Averages 2007-2008									
Spring & Fall 2007- 2008	**7.16**	**45.84**	**-23.44**	**4.7**	**249**	**21**	**0.39**	**0.04**	**0.33**

House Run Station HOU 5									
2007 Spring	7.42	51.1	-25.57	21.0	159	22	0.71	0.05	0.48
2007 Fall	6.98	90.91	-67.99	<1.0	246	26	0.07	<0.02	0.05
2008 Spring	7.42	60.59	-36.33	16.0	172	22	0.32	0.05	0.23
Averages 2007-2008									
Spring & Fall 2007- 2008	**7.27**	**67.53**	**-43.30**	**18.5**	**192**	**23**	**0.37**	**0.05**	**0.25**

House Run Station HOU 6									
2007 Spring	7.77	51.81	-22.53	13.0	161	24	0.49	0.03	0.39
2007 Fall	7.12	88.63	-70.61	143.0	233	21	0.66	0.25	0.34
2008 Spring	7.16	58.11	-32.11	1.0	180	24	0.16	0.02	0.14
Averages 2007-2008									
Spring & Fall 2007- 2008	**7.35**	**66.18**	**-41.75**	**52.3**	**191**	**23**	**0.44**	**0.10**	**0.29**

House Run Station HOU 12									
2007 Spring	7.69	47.61	-24.81	10.0	147	21	0.47	0.09	0.34
2007 Fall	7.63	91.36	-69.94	<1.0	250	29	0.12	<0.02	0.03
2008 Spring	7.83	48.93	-29.6	9.0	154	19	0.33	0.1	0.25
Averages 2007-2008									
Spring & Fall 2007- 2008	**7.72**	**62.63**	**-41.45**	**9.5**	**184**	**23**	**0.31**	**0.10**	**0.21**

House Run Station HOU 13									
2007 Spring	7.43	46.6	-19.86	14.0	149	22	0.36	0.05	0.30
2007 Fall	6.93	79.98	-61.54	17.0	207	20	0.29	0.07	0.14
2008 Spring	7.19	52.4	-27.98	5.0	153	20	0.21	0.03	0.18
Averages 2007-2008									
Spring & Fall 2007- 2008	**7.18**	**59.66**	**-36.46**	**12.0**	**170**	**21**	**0.29**	**0.05**	**0.21**

House Run Station HOU 14									
2007 Spring	7.17	40.5	-18.47	24.0	133	20	0.64	0.05	0.54
2007 Fall	6.95	25.66	-6.11	4.0	101	18	0.82	0.02	0.5
2008 Spring	7.61	45.94	-18	7.0	144	20	0.44	0.04	0.38
Averages 2007-2008									
Spring & Fall 2007- 2008	**7.24**	**37.37**	**-14.19**	**11.7**	**126**	**19**	**0.63**	**0.04**	**0.47**

House Run Station HOU 15									
2007 Spring	7.38	41.07	-15.00	9.0	136	21	0.40	0.04	0.36
2007 Fall	7.37	79.46	-57.58	15.0	197	18	0.50	0.36	0.18
2008 Spring	7.71	47.72	-22.49	9.0	148	20	0.22	0.04	0.24
Averages 2007-2008									
Spring & Fall 2007- 2008	**7.49**	**56.08**	**-31.69**	**11.0**	**160**	**20**	**0.37**	**0.15**	**0.26**

McCourtney Run Bi-Annual Report
Laboratory Analysis Results
Foundation Coal Resources, LP- Foundation Mine

Sampling Season	pH	Alkalinity	Acidity (Hot)	Total Suspended Solids	Specific Conductance @ 25°C	Sulfate	Iron	Manganese	Aluminum
	Chapter 93 Standards								
	6.0-9.0 (S.U.)	20 mg/l minimum (mg CaCO3/L)	N/A (mg CaCO3/L)	N/A (mg/L)	N/A (micromhos/cm)	Maximum 250 mg/l	1.5 mg/l 30 day average	Maximum 1.0 mg/l	Maximum 750 mg/L
McCourtney Run Station MCR 2									
2007 Spring	7.71	64.77	-41.13	4	191	29	0.21	0.03	0.12
2007 Fall	6.72	38.15	-18.38	4	153	24	0.54	0.05	0.48
2008 Spring	7.71	60.94	-35.54	2	191	23	0.14	0.02	0.14
Averages 2007-2008									
Spring & Fall 2007- 2008	**7.38**	**54.62**	**-31.68**	**3.3**	**178**	**25**	**0.30**	**0.03**	**0.25**
McCourtney Run Station MCR 3									
2007 Spring	7.58	59.54	-32.18	1	185	28	0.13	0.02	0.09
2007 Fall	7.41	43.12	-25.35	11	166	23	0.51	0.04	0.42
2008 Spring	7.78	60	-39.68	2	187	23	0.12	0.02	0.17
Averages 2007-2008									
Spring & Fall 2007- 2008	**7.6**	**54**	**-32**	**4.7**	**179**	**25**	**0.3**	**0.0**	**0.2**
McCourtney Run Station MCR 4									
2007 Spring	7.68	62.51	-37.26	21	201	33	0.38	0.04	0.22
2007 Fall	7.81	116.48	-98.49	2	306	29	0.08	0.03	0.04
2008 Spring	7.88	68.05	-40.05	14	201	27	0.2	0.03	0.17
Averages 2007-2008									
Spring & Fall 2007- 2008	**7.79**	**82.35**	**-58.60**	**12.3**	**236**	**30**	**0.22**	**0.03**	**0.14**

FORM 8.3B

STREAM INVENTORY

FORM 8.3B
STREAM INVENTORY

Sample I.D. Number	DEP Code.	Stream Name	Segment (From/To)	Flow Status / Basis[1]	Uses	***Average [2]	General Quality Characteristics
ST01-3511	40658	Trib. To Hargus Creek	Basin to Mouth at Hargus Creek	perennial	HQ-WWF	183.8	See Form 8.4A
ST02-3511	40627	Hargus Creek	Basin to Mouth at McCourtney Run	intermittent	HQ-WWF	1584.5	See Form 8.4A
ST03-2922	40564	Trib. To Garner Run	Basin to Mouth at Garner Run	intermittent	HQ-WWF	40.7	See Form 8.4A
ST04-3131	40627	Hargus Creek	Basin to Mouth at McCourtney Run	perennial	HQ-WWF	1300.5	See Form 8.4A
ST05-3131	40658	Trib. To Hargus Creek	Basin to Mouth at Hargus Creek	intermittent	HQ-WWF	3.0	See Form 8.4A
ST06-3133	40658	Trib. To Hargus Creek	Basin to Mouth at Hargus Creek	perennial	HQ-WWF	39.4	See Form 8.4A
ST07-3422	40657	Trib. To Hargus Creek	Basin to Mouth at Hargus Creek	perennial	HQ-WWF	4.0	See Form 8.4A
ST08-3013	40635	Trib. To House Run	Basin to Mouth at House Run	perennial	HQ-WWF	239.8	See Form 8.4A
ST10-3422	40628	McCourtney Run	Basin to Mouth at Southfork Tenmile Creek	perennial	HQ-WWF	3392.7	See Form 8.4A
ST11-3041	40643	Garner Run	Basin to Mouth at McCourtney Run	perennial	HQ-WWF	1714.8	See Form 8.4A
ST12-3021	40647	Trib. To Garner Run	Basin to Mouth at Garner Run	intermittent	HQ-WWF	175.7	See Form 8.4A
ST13-3511	40657	Trib. To Hargus Creek	Basin to Mouth at Hargus Creek	perennial	HQ-WWF	17.8	See Form 8.4A
ST14-3012	40643	Garner Run	Basin to Mouth at McCourtney Run	perennial	HQ-WWF	516.1	See Form 8.4A
ST15-3012	40652	Trib. To Garner Run	Basin to Mouth at Garner Run	perennial	HQ-WWF	88.6	See Form 8.4A
ST16-2922	40654	Trib. To Garner Run	Basin to Mouth at Garner Run	perennial	HQ-WWF	153.5	See Form 8.4A
ST17-3013	no. id.	Trib. To House Run	Basin to Mouth at House Run	perennial	HQ-WWF	50.4	See Form 8.4A
ST18-3032	40635	House Run	Basin to Mouth at Garner RUn	perennial	HQ-WWF	1223.2	See Form 8.4A
ST19-3031	40639	Trib. To House Run	Basin to Mouth at House Run	perennial	HQ-WWF	343.9	See Form 8.4A
ST20-3023	40647	Trib. To Garner Run	Basin to Mouth at Garner Run	intermittent	HQ-WWF	195.8	See Form 8.4A
ST21-3031	40638	Trib. To House Run	Basin to Mouth at House Run	intermittent	HQ-WWF	80.9	See Form 8.4A
ST22-3043	40632	Hoge Run	Basin to Mouth at Garner RUn	perennial	HQ-WWF	272.5	See Form 8.4A
ST23-3134	40659	Trib. To Hargus Creek	Basin to Mouth at Hargus Creek	intermittent	HQ-WWF	30.2	See Form 8.4A
ST24-3131	40659	Trib. To Hargus Creek	Basin to Mouth at Hargus Creek	intermittent	HQ-WWF	14.3	See Form 8.4A
ST25-3114	40613	Trib. To Pursley Creek	Basin to Mouth at Pursley Creek	intermittent	HQ-WWF	6.1	See Form 8.4A
ST26-3034	40636	House Run	Basin to Mouth at Garner RUn	perennial	HQ-WWF	50.1	See Form 8.4A
ST27-2924	40642	Trib. To House Run	Basin to Mouth at House Run	intermittent	HQ-WWF	171.1	See Form 8.4A
ST28-3133	40659	Trib. To Hargus Creek	Basin to Mouth at Hargus Creek	intermittent	HQ-WWF	34.1	See Form 8.4A
ST29-3133	40627	Hargus Creek	Basin to Mouth at McCourtney Run	perennial	HQ-WWF	27.3	See Form 8.4A
ST30-2924	40641	Trib. To House Run	Basin to Mouth at House Run	intermittent	HQ-WWF	52.5	See Form 8.4A
ST31-2924	40635	House Run	Basin to Mouth at Garner Run	intermittent	HQ-WWF	56.9	See Form 8.4A
ST32-2922	32627	Falling Timber Run	Basin to Mouth at Job Creek	intermittent	TSF	35.2	See Form 8.4A
ST33-2921	32627	Falling Timber Run	Basin to Mouth at Job Creek	intermittent	TSF	182.4	See Form 8.4A

FORM 8.3B
STREAM INVENTORY

Sample I.D. Number	DEP Code.	Stream Name	Segment (From/To)	Flow Status / Basis[1]	Uses	***Average [2]	General Quality Characteristics
ST34-2422	40628	McCourtney Run	Basin to Mouth at Southfork Tenmile Creek	perennial	HQ-WWF	5076.2	See Form 8.4A
ST35-2934	40703	Claylick Run	Basin to Mouth at Southfork Tenmile Creek	intermittent	HQ-WWF	28.4	See Form 8.4A
ST36-3412	40633	Trib. To Hoge Run	Basin to Mouth at Hoge Run	intermittent	HQ-WWF	167	See Form 8.4A
ST37-3412	40632	Hoge Run	Basin to Mouth at Garner RUn	perennial	HQ-WWF	59.1	See Form 8.4A
ST38-2944	40640	Trib. To House Run	Basin to Mouth at House Run	intermittent	HQ-WWF	36.1	See Form 8.4A
ST39-3131	40660	Trib. To Hargus Creek	Basin to Mouth at Hargus Creek	intermittent	HQ-WWF	22.1	See Form 8.4A
ST40-3131	40627	Hargus Creek	Basin to Mouth at McCourtney Run	perennial	HQ-WWF	1300.5	See Form 8.4A
ST41-2944	40637	Trib. To House Run	Basin to Mouth at House Run	intermittent	HQ-WWF	123.7	See Form 8.4A
ST42-2932	32622	Trib. To Webster Run	Basin to Mouth at Webster Run	intermittent	TSF	92.1	See Form 8.4A
ST43-2932	32625	Webster Run	Basin to Mouth at Wheeling Creek	perennial	TSF	71.1	See Form 8.4A
ST44-2932	32622	Trib. To Webster Run	Basin to Mouth at Webster Run	perennial	TSF	180.4	See Form 8.4A
ST45-2921	32627	Falling Timber Run	Basin to Mouth at Job Creek	intermittent	TSF	70.6	See Form 8.4A
ST46-2921	32627	Falling Timber Run	Basin to Mouth at Job Creek	intermittent	TSF	430.3	See Form 8.4A
ST47-3042	40662	Trib. To Hargus Creek	Basin to Mouth at Hargus Creek	perennial	HQ-WWF	50	See Form 8.4A
ST48-2544	40628	Basin to Mouth at McCourtney Run	Hargus Creek	perennial	HQ-WWF	105.3	See Form 8.4A
ST48-3422	40627	Hargus Creek	Basin to Mouth at McCourtney Run	perennial	HQ-WWF	143.4	See Form 8.4A
ST49-2914	32327	Falling Timber Run	Basin to Mouth at Job Creek	intermittent	TSF	2682.2	See Form 8.4A
ST50-2434	32326	Job Creek	Basin to Mouth at Wheeling Creek	perennial	TSF	22	See Form 8.4A
ST51-2914	32327	Falling Timber Run	Basin to Mouth at Job Creek	intermittent	TSF	155.9	See Form 8.4A
ST52-2941	32622	Trib. To Webster Run	Basin to Mouth at Webster Run	intermittent	TSF	58.9	See Form 8.4A
ST53-2942	40639	Trib. To House Run	Basin to Mouth at House Run	intermittent	HQ-WWF	59.5	See Form 8.4A
ST54-3024	40663	Trib. To Hargus Creek	Basin to Mouth at Hargus Creek	intermittent	HQ-WWF	35.5	See Form 8.4A
ST55-3024	40663	Trib. To Hargus Creek	Basin to Mouth at Hargus Creek	intermittent	HQ-WWF	40.5	See Form 8.4A
ST56-3111	40627	Hargus Creek	Basin to Mouth at McCourtney Run	perennial	HQ-WWF	477.2	See Form 8.4A
ST57-3024	40665	Trib. To Hargus Creek	Basin to Mouth at Hargus Creek	perennial	HQ-WWF	47.2	See Form 8.4A
ST58-3133	40627	Hargus Creek	Basin to Mouth at McCourtney Run	perennial	HQ-WWF	107.8	See Form 8.4A
ST59-3113	40665	Trib. To Hargus Creek	Basin to Mouth at Hargus Creek	perennial	HQ-WWF	671.6	See Form 8.4A
ST60-3024	40662	Trib. To Hargus Creek	Basin to Mouth at Hargus Creek	perennial	HQ-WWF	58.8	See Form 8.4A
ST61-3042	40662	Trib. To Hargus Creek	Basin to Mouth at Hargus Creek	intermittent	HQ-WWF	49.1	See Form 8.4A
ST62-3043	40643	Garner Run	Basin to Mouth at McCourtney Run	perennial	HQ-WWF	2828.7	See Form 8.4A
ST63-3041	40643	Garner Run	Basin to Mouth at McCourtney Run	perennial	HQ-WWF	2021.3	See Form 8.4A

FORM 8.3B
STREAM INVENTORY

Sample I.D. Number	DEP Code.	Stream Name	Segment (From/To)	Flow Status / Basis[1]	Uses	***Average [2]	General Quality Characteristics
ST64-3014	40651	Trib. To Garner Run	Basin to Mouth at Garner Run	intermittent	HQ-WWF	9.6	See Form 8.4A
ST65-3014	40650	Trib. To Garner Run	Basin to Mouth at Garner Run	intermittent	HQ-WWF	13.6	See Form 8.4A
ST66-3014	40649	Trib. To Garner Run	Basin to Mouth at Garner Run	intermittent	HQ-WWF	9.5	See Form 8.4A
ST67-3322	40637	Trib. To Hoge Run	Basin to Mouth at Hoge Run	intermittent	HQ-WWF	8.6	See Form 8.4A
ST68-3033	40637	Trib. To House Run	Basin to Mouth at House Run	intermittent	HQ-WWF	189.4	See Form 8.4A
ST69-3031	40639	Trib. To House Run	Basin to Mouth at House Run	intermittent	HQ-WWF	20.5	See Form 8.4A
ST70-3421	40628	McCourtney Run	Basin to Mouth at Southfork Tenmile Creek	perennial	HQ-WWF	879.9	See Form 8.4A

1: Foundation Mining, LP reserves the right to change the flow status/basis if more monthly flow data is collected.
2: Average flow may change as more monthly flow data is collected.

FORM 8.4A
BACKGROUND/MONITORING REPORT

Operator :	Foundation Mining, LP	Monitoring Point No.:	ST22-3043
Mine Name:	Foundation Mine	Description:	stream: PA Land Holdings (03-05-114)
Permit No.:	NA	Method of Flow Measurement (Weir, Meter, Etc.):	volumetric container and a stopwatch
Municipality:	Center Township	Coordinates:	N: 39°51.642' W:80°18.642'
County:	Greene	Elevation:	966'

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity (mg/l)	Iron (mg/l)	Aluminum (mg/L)	Manganese (mg/L)	Sulfate (mg/l)	Suspended Solids (mg/l)	Tot. Dis. Solids (mg/l) or Spec. Cond. (m-mho)	Comments
19-Dec-06	3	8.03	6.92	10.1	81.17	-60.47	0.2	0.17	0.02	26	1	252	
25-Jan-07	5	6.91	6.5	4.6	61.45	-41.99	0.22	0.12	0.04	27	22	204	
26-Mar-07	2241												QES Flow Only
04-24-07	497		7.74	67.68	-49.68	0.27	0.16	0.03	25	6	208		QES, Inc. sample
22-May-07	96.4	7.8	7.6	93.07	-83.37	0.17	0.37	0.02	24	2	233		QES, Inc. sample
21-Jun-07	98												QES Flow Only
25-Jul-07	18.27	7.86	8	22.1	105.14	-70.16	0.19	0.22	0.03	23	4	272	
15-Aug-07	13.3												QES Flow Only
29-Sep-07	4.7	7.15	7.47	20.5	108.02	-70.32	0.07	0.05	0.04	26	2	291	
16-Oct-07	1.1	7.36	7.42	14.4	119.43	-86.02	0.02	<0.02	<0.02	26	2	310	
8-Nov-07	19.6												

FORM 8.4A
BACKGROUND/MONITORING REPORT

Operator :	Foundation Mining, LP	Monitoring Point No.:	ST36-3412
Mine Name:	Foundation Mine	Description:	stream: Michael Pearson (03-04-125B)
Permit No.:	NA	Method of Flow Measurement (Weir, Meter, Etc.):	volumetric container and a stopwatch
Municipality:	Center Township	Coordinates:	N: 39°52.104' W:80°19.210'
County:	Greene	Elevation:	1055'

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity (mg/l)	Iron (mg/l)	Aluminum (mg/L)	Manganese (mg/L)	Sulfate (mg/l)	Suspended Solids (mg/l)	Tot. Dis. Solids (mg/l) or Spec. Cond. (m-mho)	Comments
3-Jan-07	2	7.45	7.25	10.0	55.06	-40.34	0.18	0.17	< 0.02	27	5	179	
15-Feb-06	2	7.87	6.7	2.5	63.08	-41.52	0.16	0.1	0.03	28	14	206	
26-Mar-07	1763												QES Flow Only
24-Apr-07	70												QES Flow Only
22-May-07	0.5												QES Flow Only
21-Jun-07	dry												QES Flow Only
25-Jul-07	no flow												QES Flow Only
15-Aug-07	dry												QES Flow Only
25-Sep-07	Dry												QES Flow Only
8-Oct-07	dry												QES Flow Only
8-Nov-07	dry												QES Flow Only

FORM 8.4A
BACKGROUND/MONITORING REPORT

Operator :	Foundation Mining, LP	Monitoring Point No.:	ST37-3412
Mine Name:	Foundation Mine	Description:	stream: Herbert Villers (03-04-125)
Permit No.:	NA	Method of Flow Measurement (Weir, Meter, Etc.):	volumetric container and a stopwatch
Municipality:	Center Township	Coordinates:	N: 39°52.078' W:80°19.274'
County:	Greene	Elevation:	1067'

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity (mg/l)	Iron (mg/l)	Aluminum (mg/L)	Manganese (mg/L)	Sulfate (mg/l)	Suspended Solids (mg/l)	Tot. Dis. Solids (mg/l) or Spec. Cond. (m-mho)	Comments
3-Jan-07	4	7.72	7.03	8.8	63.61	-44.61	0.48	0.23	0.1	24	9	206	
15-Feb-07	2	7.62	7.47	3.9	62.73	-39.25	0.15	0.11	0.03	28	19	205	
26-Mar-07	195												QES Flow Only
24-Apr-07	338												QES Flow Only
22-May-07	44												QES Flow Only
21-Jun-07	16												QES Flow Only
25-Jul-07	18.73												QES Flow Only
15-Aug-07	10												QES Flow Only
25-Sep-07	8.7												QES Flow Only
8-Oct-07	3.45												QES Flow Only
8-Nov-07	10.3												QES Flow Only

FORM 8.4A
BACKGROUND/MONITORING REPORT

Operator :	Foundation Mining, LP	Monitoring Point No.:	ST67-3322
Mine Name:	Foundation Mine	Description:	stream: William Zoric (03-04-111)
Permit No.:	NA	Method of Flow Measurement (Weir, Meter, Etc.):	volumetric container and a stopwatch
Municipality:	Center Township	Coordinates:	N: 39°52'31.005" W:80°20'33.238"
County:	Greene	Elevation:	1029'

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity (mg/l)	Iron (mg/l)	Aluminum (mg/L)	Manganese (mg/L)	Sulfate (mg/l)	Suspended Solids (mg/l)	Tot. Dis. Solids (mg/l) or Spec. Cond. (m-mho)	Comments
10-Jan-07	2	7.33	7.44	7.2	45.91	-25.35	0.66	0.33	0.06	23	11	164	
15-Feb-07	1	7.84	6.61	5.2	55.84	-35.13	0.34	0.27	< 0.02	22	212	182	
26-Mar-07	71												
04-24-07	17.2		7.83		74.01	-54.87	0.48	0.28	0.08	23	16	217	QES, Inc. sample
22-May-07	0.75	7.84	7.67	18.3	104.01	-85.31	0.3	0.41	0.13	20	4	249	QES, Inc. sample
21-Jun-07	2.58	7.67	7.48	22.1	102.35	-81.99	0.67	0.51	0.35	18	9	242	QES, Inc. sample
25-Jul-07	no flow												QES Flow Only
15-Aug-07	dry												QES Flow Only
25-Sep-07	Dry												QES Flow Only
8-Oct-07	dry												QES Flow Only
8-Nov-07	no flow												QES Flow Only

FORM 8.4A
BACKGROUND/MONITORING REPORT

Operator :	Foundation Mining, LP	Monitoring Point No.:	ST69-3031
Mine Name:	Foundation Mine	Description:	stream: PA Land Holdings (13-01-106)
Permit No.:	NA	Method of Flow Measurement (Weir, Meter, Etc.):	volumetric container and a stopwatch
Municipality:	Jackson Township	Coordinates:	N: 39°51'31.356" W:80°20'31.626"
County:	Greene	Elevation:	1080'

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity (mg/l)	Iron (mg/l)	Aluminum (mg/L)	Manganese (mg/L)	Sulfate (mg/l)	Suspended Solids (mg/l)	Tot. Dis. Solids (mg/l) or Spec. Cond. (m-mho)	Comments
10-Jan-07	1	7.36	7.68	7.6	66.18	-37.44	0.24	0.19	< 0.02	23	6	195	
9-Feb-07	3	7.56	6.93	1.6	65	-48.19	0.14	0.09	0.02	27	7	195	
11-Apr-07	179.82	7.84	7.59	8.9	56.86	-29.49	0.31	0.11	0.23	25	2	165	QES, Inc. sample
22-May-07	7.8	7.59	7.28	22.2	90.19	-79.08	1.03	0.4	0.64	19	5	216	QES, Inc. sample
21-Jun-07	4.5	7.32	7.68	19.2	104.87	-87.49	1.09	0.17	0.61	19	2	245	QES, Inc. sample
25-Jul-07	3.46	7.85	7.01	22.6	77.09	-52.36	0.48	0.21	0.48	19	30	198	QES, Inc. sample
15-Aug-07	1.13												QES Flow Only
25-Sep-07	dry												QES Flow Only
8-Oct-07	no flow												QES Flow Only
7-Nov-07	4.07												QES Flow Only

FORM 8.4A
BACKGROUND/MONITORING REPORT

Operator :	Foundation Mining, LP	Monitoring Point No.:	ST70-3421
Mine Name:	Foundation Mine	Description:	stream: PA Lines LLC (03-05-115)
Permit No.:	NA	Method of Flow Measurement (Weir, Meter, Etc.):	volumetric container and a stopwatch
Municipality:	Center Township	Coordinates:	N: 39°51'46.909" W:80°18'01.695"
County:	Greene	Elevation:	1001'

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity (mg/l)	Iron (mg/l)	Aluminum (mg/L)	Manganese (mg/L)	Sulfate (mg/l)	Suspended Solids (mg/l)	Tot. Dis. Solids (mg/l) or Spec. Cond. (m-mho)	Comments
10-Jan-07	>100	6.22	7.08	5.0	44.96	-26.43	0.21	0.11	0.04	27	10	176	
15-Feb-07	15	7.67	6.53	0.5	53.97	-32	0.28	0.23	0.02	29	199	228	
26-Mar-07	2640												
04-24-07	5385		7.65		62.51	-43.69	0.11	0.07	0.03	27	<1.0	210	QES, Inc. sample
22-May-07	586	7.54	6.81	16.6	91.49	-81.54	0.21	0.41	0.09	24	4	265	QES, Inc. sample
21-Jun-07	235	7.6	7.62	21.4	99.81	-83.8	0.52	0.35	0.18	21	14	267	QES, Inc. sample
25-Jul-07	320.70	8	7.36	22	90.68	-61.48	0.74	0.49	0.13	22	20	252	QES, Inc. sample
15-Aug-07	49.6												QES Flow Only
25-Sep-07	30.7												QES Flow Only
8-Oct-07	18.85												QES Flow Only
8-Nov-07	298.3												QES Flow Only

FORM 8.4A
BACKGROUND/MONITORING REPORT

Operator :	Foundation Mining, LP	Monitoring Point No.:	ST62-3043
Mine Name:	Foundation Mine	Description:	stream: Mack Vaksman (03-05-111C)
Permit No.:	NA	Method of Flow Measurement (Weir, Meter, Etc.):	volumetric container and a stopwatch
Municipality:	Center Township	Coordinates:	N: 39°51'26.036" W:80°18'44.466"
County:	Greene	Elevation:	1007'

Instructions: Use a separate sheet for each sample point and list results consecutively by date.

Date Sampled	Flow (GPM) or Static Water Elevation	Field pH	Laboratory pH	Temperature (°C)	Alkalinity mg/l	Acidity (mg/l)	Iron (mg/l)	Aluminum (mg/L)	Manganese (mg/L)	Sulfate (mg/l)	Suspended Solids (mg/l)	Tot. Dis. Solids (mg/l) or Spec. Cond. (m-mho)	Comments
9-Jan-07	20	7.71	7.07	7.0	43.44	-25.57	0.26	0.16	0.03	25	5	161	
15-Feb-07	10	8.08	6.61	0.2	55.4	-30.6	0.09	0.14	< 0.02	30	183	258	
26-Mar-07	25054												QES Flow Only
24-Apr-07	4821												QES Flow Only
30-May-07	213												QES Flow Only
21-Jun-07	199												QES Flow Only
25-Jul-07	382.00												QES Flow Only
15-Aug-07	57												QES Flow Only
25-Sep-07	43.8												QES Flow Only
8-Oct-07	28.40												QES Flow Only
8-Nov-07	288.2												QES Flow Only

Point #1	N 39°51.595 W 80°18.558
Point 2A	N 39°51.295 W 80°18.844
Point A	N 39°51.823 W 80°18.773
Point C	N 39°51.906 W 80°18.979
Point E	N 39°51.936 W 80°18.949
Point G	N 39°51.347 W 80°19.108
Point H	N 39°51.282 W 80°19.373
Point I	N 39°51.229 W 80°18.831
Point K	N 39°51.958 W 80°18.285
Point # 100	N 39°52.201 W 80°19.638
Point # 104	N 39°51.698 W 80°18.734
Point # 106	N 39°51.230 W 80°19.782
Point # 107	N 39°51.184 W 80°19.735
Pond #111B	N 39°51.152 W 80°18.615
ST70-3421	N 39°51.837 W 80°18.285
ST69-3031	N 39°51.531 W 80°20.596
ST22-3034	N 39°51.643 W 80°18.631
ST37-3412	N 39°52.085 W 80°19.216
ST36-3412	N 39°52.106 W 80°19.198
ST62-3043	N 39°51.446 W 80°18.720

INDUSTRIAL LAB ANALYSIS, INC.
2240 Williamsburg Drive
Glen Dale, WV 26038
304-233-5595

Approved By: IM/BM

FORM 8.4 A
BACKGROUND/MONITORING REPORT

Operator:	Foundation Mining , LP	Monitoring Point No.:	POINT 100
Mine Name:	Foundation Mine	Description:	
Permit No.:		Method of Flow Measurement (Weir, Meter, Etc.):	
Municipality:		Coordinates:	
Collected By:	Q E S	Elevation:	

Instructions: Use a separate sheet for each point and list results consecutively by date.

Date Sampled	Flow (GPM)	Field pH	Temp ° C	Lab pH	Alka mg/l	Hot Acidity mg/l	Iron mg/l	Al mg/l	Mn mg/l	Sulfate mg/l	Sus. Solids mg/l	Spec. Cond. µmho/cm	Comments	Lab ID
01-28-08	231	7.18	10.3	7.53	80.32	-56.45	0.27	0.14	0.17	43.0	1.0	239		**08-01-1159**
02-08-08	193.5	7.52	11.9	6.52	48.50	-13.57	0.53	0.44	0.09	24.0	31.0	169		**08-02-309**
03-12-08	53.57	7.77	7.9	7.03	59.27	-31.29	2.50	1.29	0.26	26.0	119.0	184		**08-03-647**
04-03-08	63.82	7.93	11.4	7.70	70.67	-43.14	0.20	0.16	0.06	24.0	3.0	201		**08-04-373**
05-05-08	11.32	8.07	19.1	8.24	85.02	-63.85	0.21	0.10	0.06	21.0	2.0	223		**08-05-420**
06-02-08	27.27	7.38	23.1	7.69	74.95	-49.19	0.29	0.24	0.04	19.0	4.0	209		**08-06-411**

I certify under penalty of law that I have personally examined and I am familiar with the information submitted herein and based on my inquiry of those individuals responsible for obtaining the information. I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment. Explanations are attached if discharge violations occurred during the month.

Printed Name Signature Date

INDUSTRIAL LAB ANALYSIS, INC.
2240 Williamsburg Drive
Glen Dale, WV 26038
304-233-5595

Approved By: IM/BM

FORM 8.4 A
BACKGROUND/MONITORING REPORT

Operator:	Foundation Mining , LP	Monitoring Point No.:	POINT 101
Mine Name:	Foundation Mine	Description:	
Permit No.:		Method of Flow Measurement (Weir, Meter, Etc.):	
Municipality:		Coordinates:	
Collected By:	Q E S	Elevation:	

Instructions: Use a separate sheet for each point and list results consecutively by date.

Date Sampled	Flow (GPM)	Field pH	Temp ° C	Lab pH	Alka mg/l	Hot Acidity mg/l	Iron mg/l	Al mg/l	Mn mg/l	Sulfate mg/l	Sus. Solids mg/l	Spec. Cond. µmho/cm	Comments	Lab ID
02-08-08	28.16	7.51	10.7	6.57	34.54	-9.47	0.30	0.49	<0.02	23.0	3.0	123		**08-02-312**
03-12-08	26.90	8.1	6.4	7.18	45.11	-28.08	0.32	0.20	0.02	23.0	<1.0	142		**08-03-648**
04-03-08	9.93	7.95	11.0	7.24	54.48	-29.30	0.08	0.11	<0.02	23.0	<1.0	163		**08-04-376**
05-05-08	7.9	7.93	18.6	8.16	66.00	-43.88	0.21	0.13	<0.02	22.0	4.0	182		**08-05-421**
06-03-08	7.21	7.84	15.4	7.66	60.76	-34.99	0.26	0.28	<0.02	22.0	4.0	179		**08-06-420**

I certify under penalty of law that I have personally examined and I am familiar with the information submitted herein and based on my inquiry of those individuals responsible for obtaining the information. I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment. Explanations are attached if discharge violations occurred during the month.

Printed Name Signature Date

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2240 Williamsburg Drive
Glen Dale, WV 26038
304-233-5595

Approved By: IM/BM

FORM 8.4 A
BACKGROUND/MONITORING REPORT

Operator:	**Foundation Mining , LP**	**Monitoring Point No.:**	**POINT 104**
Mine Name:	**Foundation Mine**	**Description:**	
Permit No.:		**Method of Flow Measurement (Weir, Meter, Etc.):**	
Municipality:		**Coordinates:**	
Collected By:	Q E S	**Elevation:**	

Instructions: Use a separate sheet for each point and list results consecutively by date.

Date Sampled	Flow (GPM)	Field pH	Temp ° C	Lab pH	Alka mg/l	Hot Acidity mg/l	Iron mg/l	Al mg/l	Mn mg/l	Sulfate mg/l	Sus. Solids mg/l	Spec. Cond. µmho/cm	Comments	Lab ID
01-28-08	0.5	7.35	8.5	7.19	48.12	-31.48	0.67	0.53	0.08	32.0	3.0	173		**08-01-1160**
02-08-08	18.34	7.55	10.4	7.00	23.45	-6.74	0.09	0.14	<0.02	26.0	<1.0	110		**08-02-318**
03-12-08	2.38	7.62	8.1	7.06	30.68	-12.02	0.04	0.04	<0.02	27.0	<1.0	127		**08-03-644**
04-03-08	2.32	8.27	11.4	7.16	38.31	-12.28	0.09	0.12	<0.02	28.0	4.0	148		**08-04-384**
05-05-08	2.3	8.03	19.6	8.02	46.30	-24.69	0.04	0.06	<0.02	28.0	<1.0	165		**08-05-429**
06-03-08	2.24	7.38	17.5	7.27	77.12	-50.44	0.39	0.54	0.02	22.0	2.0	214		**08-06-423**

I certify under penalty of law that I have personally examined and I am familiar with the information submitted herein and based on my inquiry of those individuals responsible for obtaining the information. I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment. Explanations are attached if discharge violations occurred during the month.

Printed Name Signature Date

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304-233-5595

Approved By: IM/BM

FORM 8.4 A
BACKGROUND/MONITORING REPORT

Operator:	Foundation Mining , LP	Monitoring Point No.:	POINT 102
Mine Name:	Foundation Mine	Description:	
Permit No.:		Method of Flow Measurement (Weir, Meter, Etc.):	
Municipality:		Coordinates:	
Collected By:	Q E S	Elevation:	

Instructions: Use a separate sheet for each point and list results consecutively by date.

Date Sampled	Flow (GPM)	Field pH	Temp ° C	Lab pH	Alka mg/l	Hot Acidity mg/l	Iron mg/l	Al mg/l	Mn mg/l	Sulfate mg/l	Sus. Solids mg/l	Spec. Cond. µmho/cm	Comments	Lab ID
02-08-08	36.5	7.60	11.6	6.46	30.39	-12.52	0.28	0.36	<0.02	21.0	2.0	121		**08-02-313**
03-12-08	38.46	7.62	8.0	6.95	38.61	-22.19	0.26	0.20	0.02	26.0	2.0	135		**08-03-651**
04-03-08	15.0	7.98	11.2	6.85	46.65	-21.84	0.14	0.15	<0.02	25.0	2.0	154		**08-04-379**
05-05-08	13.3	7.8	18.8	8.04	58.14	-35.31	0.26	0.20	0.02	26.0	4.0	180		**08-05-424**
06-03-08	12.0	7.62	16.2	7.02	61.71	-34.33	0.18	0.39	<0.02	21.0	2.0	180		**08-06-421**

I certify under penalty of law that I have personally examined and I am familiar with the information submitted herein and based on my inquiry of those individuals responsible for obtaining the information. I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment. Explanations are attached if discharge violations occurred during the month.

Printed Name Signature Date

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Glen Dale, WV 26038
304-233-5595

Approved By: IM/BM

FORM 8.4 A
BACKGROUND/MONITORING REPORT

Operator:	**Foundation Mining , LP**	**Monitoring Point No.:**	**POINT 103**
Mine Name:	**Foundation Mine**	**Description:**	
Permit No.:		**Method of Flow Measurement (Weir, Meter, Etc.):**	
Municipality:		**Coordinates:**	
Collected By:	Q E S	**Elevation:**	

Instructions: Use a separate sheet for each point and list results consecutively by date.

Date Sampled	Flow (GPM)	Field pH	Temp ° C	Lab pH	Alka mg/l	Hot Acidity mg/l	Iron mg/l	Al mg/l	Mn mg/l	Sulfate mg/l	Sus. Solids mg/l	Spec. Cond. µmho/cm	Comments	Lab ID
01-31-08	14.56	7.08	7.6	7.09	45.26	-24.75	0.15	0.16	<0.02	25.0	<1.0	150		**08-01-1183**
02-08-08	90.9	7.68	10.8	6.98	35.57	-19.26	0.29	0.37	<0.02	23.0	5.0	125		**08-02-316**
03-12-08	98.36	7.82	8.4	7.10	44.48	-24.89	0.25	0.20	<0.02	26.0	4.0	139		**08-03-654**
04-03-08	28.03	7.96	10.5	7.35	50.17	-22.86	0.14	0.15	<0.02	24.0	<1.0	157		**08-04-382**
05-05-08	26.3	7.76	18.9	8.02	58.63	-36.84	1.59	0.85	0.15	24.0	123.0	174		**08-05-427**
06-03-08	14.85	6.98	17.4	7.11	73.52	-41.53	0.23	0.23	0.02	19.0	1.0	204		**08-06-422**

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304-233-5595

Approved By: IM/BM

FORM 8.4 A
BACKGROUND/MONITORING REPORT

Operator:	**Foundation Mining , LP**	**Monitoring Point No.:**	**POINT 105**
Mine Name:	**Foundation Mine**	**Description:**	
Permit No.:		**Method of Flow Measurement (Weir, Meter, Etc.):**	
Municipality:		**Coordinates:**	
Collected By:	Q E S	**Elevation:**	

Instructions: Use a separate sheet for each point and list results consecutively by date.

Date Sampled	Flow (GPM)	Field pH	Temp ° C	Lab pH	Alka mg/l	Hot Acidity mg/l	Iron mg/l	Al mg/l	Mn mg/l	Sulfate mg/l	Sus. Solids mg/l	Spec. Cond. µmho/cm	Comments	Lab ID
01-31-08	46.15	7.27	11.7	6.81	33.87	-20.79	0.14	0.16	<0.02	24.0	<1.0	136		**08-01-1182**
02-25-08	58.25	7.32	10.5	6.49	32.91	-17.32	0.06	0.17	<0.02	29.0	<1.0	127		**08-02-789**
03-12-08	53.57	8.1	9.7	6.75	29.65	-11.24	0.04	0.07	<0.02	21.0	<1.0	117		**08-03-663**
04-03-08	DRY													**N-04-030**
05-05-08	DRY													**N-05-026**
06-03-08	10.27	7.84	22.4	7.62	35.55	-19.64	0.28	0.31	<0.02	20.0	14.0	125		**08-06-443**

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Printed Name Signature Date

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Approved By: IM/BM

FORM 8.4 A
BACKGROUND/MONITORING REPORT

Operator:	**Foundation Mining , LP**	**Monitoring Point No.:**	**POINT 106**
Mine Name:	**Foundation Mine**	**Description:**	
Permit No.:		**Method of Flow Measurement (Weir, Meter, Etc.):**	
Municipality:		**Coordinates:**	
Collected By:	Q E S	**Elevation:**	

Instructions: Use a separate sheet for each point and list results consecutively by date.

Date Sampled	Flow (GPM)	Field pH	Temp ° C	Lab pH	Alka mg/l	Hot Acidity mg/l	Iron mg/l	Al mg/l	Mn mg/l	Sulfate mg/l	Sus. Solids mg/l	Spec. Cond. µmho/cm	Comments	Lab ID
01-28-08	405.3	7.28	10.4	7.76	62.80	-38.77	0.08	0.07	0.04	25.0	<1.0	184		**08-01-1161**
02-25-08	495.3	7.21	8.2	7.23	52.79	-36.07	0.27	0.14	0.02	29.0	<1.0	151		**08-02-790**
03-12-08	484.62	7.14	9.5	7.50	46.28	-31.82	0.14	0.14	<0.02	22.0	<1.0	145		**08-03-660**
04-03-08	311.53	8.10	13.6	7.71	54.63	-27.70	0.13	0.14	0.02	23.0	1.0	164		**08-04-391**
05-06-08	272.72	7.55	18.8	8.20	69.25	-50.72	0.12	0.08	0.02	22.0	1.0	189		**08-05-414**
06-06-08	1658.10	7.83	24.9	7.53	59.30	-32.73	0.28	0.30	0.03	19.0	4.0	162		**08-06-440**

I certify under penalty of law that I have personally examined and I am familiar with the information submitted herein and based on my inquiry of those individuals responsible for obtaining the information. I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment. Explanations are attached if discharge violations occurred during the month.

Printed Name Signature Date

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2240 Williamsburg Drive
Glen Dale, WV 26038
304-233-5595

Approved By: IM/BM

FORM 8.4 A
BACKGROUND/MONITORING REPORT

Operator:	**Foundation Mining , LP**	**Monitoring Point No.:**	**#107**
Mine Name:	**Foundation Mine**	**Description:**	
Permit No.:		**Method of Flow Measurement (Weir, Meter, Etc.):**	
Municipality:		**Coordinates:**	
Collected By:	Q E S	**Elevation:**	

Instructions: Use a separate sheet for each point and list results consecutively by date.

Date Sampled	Flow (GPM)	Field pH	Temp ° C	Lab pH	Alka mg/l	Hot Acidity mg/l	Iron mg/l	Al mg/l	Mn mg/l	Sulfate mg/l	Suspended Solids mg/l	Spec. Cond. µmho/cm	Lab ID
01-28-08	269.4	7.16	10.0	7.35	50.89	-30.02	0.08	0.05	0.03	26.0	<1.0	169	**08-01-1162**
02-25-08	284.5	7.43	8.1	6.62	41.91	-24.15	0.34	0.13	0.03	29.0	<1.0	151	**08-02-791**
03-12-08	292.86	7.9	9.9	7.12	37.93	-24.43	0.12	0.11	0.02	23.0	<1.0	141	**08-03-661**
04-03-08	281.76	7.91	13.7	7.37	45.16	-19.98	0.12	0.14	0.02	24.0	1.0	154	**08-04-392**
05-06-08	193.5	7.72	19.2	8.16	69.95	-46.66	0.12	0.07	0.02	21.0	2.0	189	**08-05-415**
06-03-08	1869.32	7.42	23.6	7.62	52.61	-31.59	0.30	0.31	0.04	19.0	2.0	159	**08-06-441**

I certify under penalty of law that I have personally examined and I am familiar with the information submitted herein and based on my inquiry of those individuals responsible for obtaining the information. I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment. Explanations are attached if discharge violations occurred during the month.

Printed Name Signature Date

INDUSTRIAL LAB ANALYSIS, INC.
2240 Williamsburg Drive
Glen Dale, WV 26038
304-233-5595

Approved By: IM/BM

FORM 8.4 A
BACKGROUND/MONITORING REPORT

Operator:	**Foundation Mining , LP**	**Monitoring Point No.:**	**POINT #1**
Mine Name:	**Foundation Mine**	**Description:**	
Permit No.:		**Method of Flow Measurement (Weir, Meter, Etc.):**	
Municipality:		**Coordinates:**	
Collected By:	Q E S	**Elevation:**	

Instructions: Use a separate sheet for each point and list results consecutively by date.

Date Sampled	Flow (GPM)	Field pH	Temp ° C	Lab pH	Alka mg/l	Hot Acidity mg/l	Iron mg/l	Al mg/l	Mn mg/l	Sulfate mg/l	Sus. Solids mg/l	Spec. Cond. µmho/cm	Lab ID
01-08-08	3099.4	8.2	11.4	7.75	60.00	-38.68	0.48	0.22	0.03	29.0	<1.0	205	**08-01-486**
02-08-08	5416.7	7.64	11.8	6.92	38.99	-19.68	0.39	0.39	0.03	23.0	6.0	148	**08-02-320**
03-12-08	2508.51	7.87	8.4	7.20	47.70	-33.54	0.16	0.12	0.03	25.0	1.0	164	**08-03-642**
04-03-08	2245.6	8.41	11.9	7.51	55.22	-27.99	0.10	0.13	0.02	26.0	<1.0	182	**08-04-372**
05-05-08	1765.69	8.3	19.7	7.87	71.29	-52.54	0.10	0.07	0.02	25.0	1.0	204	**08-05-431**
06-03-08	1834.5	7.86	18.0	6.98	59.94	-37.58	0.53	0.41	0.05	19.0	1.0	172	**08-06-428**

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Printed Name Signature Date

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2240 Williamsburg Drive
Glen Dale, WV 26038
304-233-5595

Approved By: IM/BM

FORM 8.4 A
BACKGROUND/MONITORING REPORT

Operator:	**Foundation Mining , LP**	**Monitoring Point No.:**	**POINT 2A**
Mine Name:	**Foundation Mine**	**Description:**	
Permit No.:		**Method of Flow Measurement (Weir, Meter, Etc.):**	
Municipality:		**Coordinates:**	
Collected By:	Q E S	**Elevation:**	

Instructions: Use a separate sheet for each point and list results consecutively by date.

Date Sampled	Flow (GPM)	Field pH	Temp ° C	Lab pH	Alka mg/l	Hot Acidity mg/l	Iron mg/l	Al mg/l	Mn mg/l	Sulfate mg/l	Sus. Solids mg/l	Spec. Cond. µmho/cm	Lab ID
01-08-08	235.3	8.1	10.4	7.50	54.99	-35.81	0.14	0.10	<0.02	26.0	<1.0	178	**08-01-474**
02-08-08	416.3	7.58	11.7	6.50	35.28	-16.25	0.27	0.32	<0.02	22.0	1.0	129	**08-02-324**
03-13-08	317.4	7.88	8.2	7.06	43.07	-21.25	0.09	0.10	<0.02	23.0	<1.0	148	**08-03-668**
04-03-08	341.6	7.94	12.1	7.70	51.03	-25.82	0.09	0.11	<0.02	24.0	<1.0	161	**08-04-389**
05-06-08	162.16	8.05	22.4	8.20	64.96	-39.52	0.16	0.08	0.05	23.0	1.0	184	**08-05-400**
06-24-08	168.22	7.72	21.5	7.71	74.84	-45.41	0.45	0.22	0.33	22.0	9.0	202	**08-06-1044**

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Printed Name Signature Date

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304-233-5595

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FORM 8.4 A
BACKGROUND/MONITORING REPORT

Operator:	Foundation Mining , LP	Monitoring Point No.:	POINT G
Mine Name:	Foundation Mine	Description:	
Permit No.:		Method of Flow Measurement (Weir, Meter, Etc.):	
Municipality:		Coordinates:	
Collected By:	Q E S	Elevation:	

Instructions: Use a separate sheet for each point and list results consecutively by date.

Date Sampled	Flow (GPM)	Field pH	Temp ° C	Lab pH	Alka mg/l	Hot Acidity mg/l	Iron mg/l	Al mg/l	Mn mg/l	Sulfate mg/l	Sus. Solids mg/l	Spec. Cond. µmho/cm	Lab ID
01-08-08	41.6	7.5	15.2	7.24	76.32	-45.19	0.13	0.10	0.02	32.0	3.0	229	**08-01-475**
02-25-08	51.72	7.35	7.9	6.84	61.76	-41.49	0.11	0.20	<0.02	30.0	1.0	191	**08-02-786**
03-12-08	41.09	7.97	9.8	7.55	56.58	-40.16	0.14	0.16	<0.02	26.0	2.0	177	**08-03-664**
04-03-08	48.38	7.85	13.3	7.82	70.15	-42.82	0.14	0.16	<0.02	29.0	2.0	204	**08-04-390**
05-06-08	32.96	7.76	21.4	8.16	82.77	-59.99	0.22	0.16	0.03	29.0	5.0	232	**08-05-399**
06-03-08	30.92	7.24	16.3	7.77	77.99	-48.64	0.34	0.38	0.02	24.0	18.0	213	**08-06-431**

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Printed Name Signature Date

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Glen Dale, WV 26038
304-233-5595

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FORM 8.4 A
BACKGROUND/MONITORING REPORT

Operator:	**Foundation Mining , LP**	**Monitoring Point No.:**	**POINT A**
Mine Name:	**Foundation Mine**	**Description:**	
Permit No.:		**Method of Flow Measurement (Weir, Meter, Etc.):**	
Municipality:		**Coordinates:**	
Collected By:	Q E S	**Elevation:**	

Instructions: Use a separate sheet for each point and list results consecutively by date.

Date Sampled	Flow (GPM)	Field pH	Temp ° C	Lab pH	Alka mg/l	Hot Acidity mg/l	Iron mg/l	Al mg/l	Mn mg/l	Sulfate mg/l	Suspended Solids mg/l	Spec. Cond. µmho/cm	Lab ID
01-08-08	2.68	7.9	13.5	7.49	73.46	-50.88	0.14	0.14	<0.02	35.0	1.0	227	**08-01-484**
02-08-08	45.4	7.65	11.2	7.19	36.52	-17.97	0.29	0.36	<0.02	23.0	6.0	137	**08-02-317**
03-12-08	21.12	7.54	8.2	7.06	46.47	-26.66	0.20	0.20	<0.02	33.0	4.0	159	**08-03-655**
04-03-08	7.28	8.03	11.0	7.36	63.13	-34.97	0.14	0.14	<0.02	32.0	2.0	199	**08-04-383**
05-05-08	6.49	8.4	19.5	8.29	72.65	-53.64	0.13	0.08	0.02	24.0	2.0	202	**08-05-428**
06-03-08	9.31	7.64	16.5	7.52	74.83	-50.39	0.43	0.42	<0.02	30.0	2.0	216	**08-06-426**

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FORM 8.4 A
BACKGROUND/MONITORING REPORT

Operator:	Foundation Mining , LP	**Monitoring Point No.:**	POINT E
Mine Name:	Foundation Mine	**Description:**	
Permit No.:		**Method of Flow Measurement (Weir, Meter, Etc.):**	
Municipality:		**Coordinates:**	
Collected By:	Q E S	**Elevation:**	

Instructions: Use a separate sheet for each point and list results consecutively by date.

Date Sampled	Flow (GPM)	Field pH	Temp ° C	Lab pH	Alka mg/l	Hot Acidity mg/l	Iron mg/l	Al mg/l	Mn mg/l	Sulfate mg/l	Sus. Solids mg/l	Spec. Cond. µmho/cm	Lab ID
01-08-08	7.35	7.87	13.5	7.18	63.87	-42.36	0.12	0.11	0.02	34.0	4.0	210	**08-01-482**
02-08-08	84.5	7.54	10.6	6.80	40.01	-20.10	0.23	0.33	<0.02	23.0	1.0	138	**08-02-314**
03-12-08	73.17	7.44	7.9	7.23	49.29	-33.92	0.13	0.11	<0.02	29.0	<1.0	157	**08-03-652**
04-03-08	21.89	7.70	11.5	7.51	58.90	-31.15	0.09	0.12	<0.02	29.0	2.0	183	**08-04-380**
05-05-08	4.6	7.59	19.7	8.07	58.59	-39.19	0.18	0.15	<0.02	27.0	5.0	180	**08-05-425**
06-03-08	4.57	7.63	16.4	7.09	72.33	-46.65	0.21	0.24	0.02	26.0	3.0	203	**08-06-425**

I certify under penalty of law that I have personally examined and I am familiar with the information submitted herein and based on my inquiry of those individuals responsible for obtaining the information. I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment. Explanations are attached if discharge violations occurred during the month.

Printed Name Signature Date

INDUSTRIAL LAB ANALYSIS, INC.
2240 Williamsburg Drive
Glen Dale, WV 26038
304-233-5595

Approved By: IM/BM

FORM 8.4 A
BACKGROUND/MONITORING REPORT

Operator:	Foundation Mining , LP	Monitoring Point No.:	POINT H
Mine Name:	Foundation Mine	Description:	
Permit No.:		Method of Flow Measurement (Weir, Meter, Etc.):	
Municipality:		Coordinates:	
Collected By:	Q E S	Elevation:	

Instructions: Use a separate sheet for each point and list results consecutively by date.

Date Sampled	Flow (GPM)	Field pH	Temp ° C	Lab pH	Alka mg/l	Hot Acidity mg/l	Iron mg/l	Al mg/l	Mn mg/l	Sulfate mg/l	Sus. Solids mg/l	Spec. Cond. µmho/cm	Lab ID
01-08-08	1666.2	7.94	11.2	7.08	54.37	-29.81	0.12	0.11	<0.02	27.0	<1.0	173	**08-01-472**
02-25-08	1546.6	8.4	7.3	6.61	46.08	-26.19	0.15	0.17	0.02	30.0	<1.0	159	**08-02-792**
03-13-08	1846.20	7.94	8.5	6.98	44.42	-20.38	0.09	0.10	<0.02	24.0	<1.0	147	**08-03-671**
04-15-08	1526.4	8.02	10.2	7.30	58.47	-33.10	0.08	0.11	0.02	24.0	1.0	173	**08-04-981**
05-06-08	1736.8	7.64	20.2	8.11	64.70	-46.06	0.18	0.10	0.03	22.0	1.0	183	**08-05-398**
06-03-08	1648.24	7.92	17.4	7.29	60.50	-41.11	0.54	0.39	0.05	19.0	1.0	172	**08-06-429**

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Glen Dale, WV 26038
304-233-5595

Approved By: IM/BM

FORM 8.4 A
BACKGROUND/MONITORING REPORT

Operator:	**Foundation Mining , LP**	**Monitoring Point No.:**	**POINT I**
Mine Name:	**Foundation Mine**	**Description:**	
Permit No.:		**Method of Flow Measurement (Weir, Meter, Etc.):**	
Municipality:		**Coordinates:**	
Collected By:	Q E S	**Elevation:**	

Instructions: Use a separate sheet for each point and list results consecutively by date.

Date Sampled	Flow (GPM)	Field pH	Temp ° C	Lab pH	Alka mg/l	Hot Acidity mg/l	Iron mg/l	Al mg/l	Mn mg/l	Sulfate mg/l	Sus. Solids mg/l	Spec. Cond. µmho/cm	Lab ID
01-08-08	23.25	8.2	14.3	7.27	40.08	-15.05	0.21	0.11	0.05	31.0	2.0	155	**08-01-473**
02-08-08	113.2	7.64	11.2	6.59	27.25	-12.79	0.52	0.59	0.04	23.0	4.0	114	**08-02-323**
03-12-08	44.77	8.11	9.4	6.81	30.69	-15.65	0.31	0.37	0.04	25.0	<1.0	126	**08-03-659**
04-03-08	24.59	8.05	12.6	7.17	36.02	-6.53	0.26	0.21	0.04	26.0	3.0	137	**08-04-388**
05-06-08	69.76	7.65	20.0	7.52	45.45	-19.01	0.38	0.22	0.06	26.0	8.0	151	**08-05-409**
06-02-08	44.77	7.3	17.0	7.52	44.44	-21.92	0.70	0.59	0.08	19.0	16.0	145	**08-06-409**

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Approved By: IM/BM

FORM 8.4 A
BACKGROUND/MONITORING REPORT

Operator:	**Foundation Mining , LP**	**Monitoring Point No.:**	**POINT K**
Mine Name:	**Foundation Mine**	**Description:**	
Permit No.:		**Method of Flow Measurement (Weir, Meter, Etc.):**	
Municipality:		**Coordinates:**	
Collected By:	Q E S	**Elevation:**	

Instructions: Use a separate sheet for each point and list results consecutively by date.

Date Sampled	Flow (GPM)	Field pH	Temp ° C	Lab pH	Alka mg/l	Hot Acidity mg/l	Iron mg/l	Al mg/l	Mn mg/l	Sulfate mg/l	Sus. Solids mg/l	Spec. Cond. µmho/cm	Lab ID
01-08-08	111.1	8.41	8.3	6.87	67.82	-44.21	0.10	0.08	<0.02	33.0	<1.0	228	**08-01-478**
02-08-08	333.3	7.67	9.9	6.96	40.16	-14.61	0.24	0.31	<0.02	27.0	1.0	140	**08-02-307**
03-12-08	166.6	7.72	8.4	7.18	46.16	-30.29	0.11	0.09	0.02	24.0	<1.0	150	**08-03-640**
04-03-08	115.38	7.52	10.9	7.65	63.58	-34.93	0.10	0.11	<0.02	45.0	1.0	194	**08-04-370**
05-05-08	103.4	8.04	19.1	8.23	75.94	-58.73	0.10	0.09	<0.02	30.0	1.0	217	**08-05-416**
06-02-08	9.52	7.62	18.3	7.78	61.56	-41.16	0.34	0.34	0.02	24.0	3.0	187	**08-06-406**

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FORM 8.4 A
BACKGROUND/MONITORING REPORT

Operator:	**Foundation Mining , LP**	**Monitoring Point No.:**	**ST11-3023**
Mine Name:	**Foundation Mine**	**Description:**	
Permit No.:		**Method of Flow Measurement (Weir, Meter, Etc.):**	
Municipality:		**Coordinates:**	
Collected By:	Q E S	**Elevation:**	

Instructions: Use a separate sheet for each point and list results consecutively by date.

Date Sampled	Flow (GPM)	Field pH	Temp ° C	Lab pH	Alka mg/l	Hot Acidity mg/l	Iron mg/l	Al mg/l	Mn mg/l	Sulfate mg/l	Sus. Solids mg/l	Spec. Cond. µmho/cm	Lab ID
01-08-08	919.23	8.04	14.6	7.04	58.21	-35.44	0.15	0.12	0.02	31.0	1.0	227	**08-01-477**
02-08-08	1419.6	7.7	11.3	7.39	38.14	-21.15	0.29	0.35	0.02	23.0	1.0	156	**08-02-322**
03-12-08	1449.21	8.21	9.8	6.98	43.03	-27.05	0.14	0.11	0.02	29.0	<1.0	171	**08-03-658**
04-03-08	1385.47	8.63	11.8	7.61	52.13	-25.80	0.10	0.21	<0.02	26.0	1.0	184	**08-04-387**
05-06-08	1236.47	7.75	22.2	7.78	69.64	-42.10	0.11	0.06	0.03	25.0	2.0	215	**08-05-408**
06-02-08	3690.6	7.22	15.9	7.62	60.99	-47.21	0.17	0.20	0.02	21.0	1.0	200	**08-06-408**

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Glen Dale, WV 26038
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FORM 8.4 A
BACKGROUND/MONITORING REPORT

Operator:	**Foundation Mining , LP**	**Monitoring Point No.:**	**ST22-3034**
Mine Name:	**Foundation Mine**	**Description:**	
Permit No.:		**Method of Flow Measurement (Weir, Meter, Etc.):**	
Municipality:		**Coordinates:**	
Collected By:	Q E S	**Elevation:**	

Instructions: Use a separate sheet for each point and list results consecutively by date.

Date Sampled	Flow (GPM)	Field pH	Temp ° C	Lab pH	Alka mg/l	Hot Acidity mg/l	Iron mg/l	Al mg/l	Mn mg/l	Sulfate mg/l	TSS mg/l	Spec. Cond. µmho/cm	Lab ID
01-08-08	779.2	7.83	12.6	7.55	65.18	-42.83	0.19	0.16	0.04	29.0	2.0	218	**08-01-485**
02-08-08	204.5	7.55	11.1	6.82	43.11	-24.53	0.50	0.43	0.04	24.0	8.0	152	**08-02-319**
03-12-08	1080.43	7.75	8.6	7.36	50.86	-33.02	0.16	0.14	0.03	24.0	3.0	164	**08-03-643**
04-03-08	232.01	7.76	12.8	7.39	61.23	-30.50	0.13	0.15	0.02	24.0	2.0	182	**08-04-385**
05-05-08	65.2	8.3	20.1	8.24	72.30	-48.87	0.09	0.07	0.02	23.0	1.0	201	**08-05-430**
06-03-08	63.82	7.75	15.4	7.50	73.45	-52.22	0.21	0.55	0.02	21.0	2.0	203	**08-06-427**

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FORM 8.4 A
BACKGROUND/MONITORING REPORT

Operator:	**Foundation Mining , LP**	**Monitoring Point No.:**	ST36-3412
Mine Name:	Foundation Mine	**Description:**	
Permit No.:		**Method of Flow Measurement (Weir, Meter, Etc.):**	
Municipality:		**Coordinates:**	
Collected By:	Q E S	**Elevation:**	

Instructions: Use a separate sheet for each point and list results consecutively by date.

Date Sampled	Flow (GPM)	Field pH	Temp ° C	Lab pH	Alka mg/l	Hot Acidity mg/l	Iron mg/l	Al mg/l	Mn mg/l	Sulfate mg/l	TSS mg/l	Spec. Cond. µmho/cm	Lab ID
01-08-08	3.90	8.3	11.7	6.79	53.94	-34.76	0.08	0.08	<0.02	31.0	<1.0	175	**08-01-480**
02-08-08	76.9	7.51	11.0	6.77	38.70	-5.59	0.21	0.30	<0.02	23.0	4.0	130	**08-02-310**
03-12-08	65.21	7.84	8.4	6.98	44.09	-25.35	0.12	0.11	<0.02	26.0	1.0	145	**08-03-650**
04-03-08	22.90	7.66	11.5	7.69	51.42	-24.38	0.11	0.14	<0.02	24.0	3.0	163	**08-04-378**
05-05-08	16.3	7.70	19.2	7.99	58.81	-43.35	0.15	0.13	<0.02	26.0	<1.0	180	**08-05-423**
06-02-08	56.6	7.52	16.8	7.58	59.04	-38.24	0.25	0.47	<0.02	20.0	3.0	176	**08-06-413**

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FORM 8.4 A
BACKGROUND/MONITORING REPORT

Operator:	**Foundation Mining , LP**	**Monitoring Point No.:**	**ST37-3412**
Mine Name:	**Foundation Mine**	**Description:**	
Permit No.:		**Method of Flow Measurement (Weir, Meter, Etc.):**	
Municipality:		**Coordinates:**	
Collected By:	Q E S	**Elevation:**	

Instructions: Use a separate sheet for each point and list results consecutively by date.

Date Sampled	Flow (GPM)	Field pH	Temp ° C	Lab pH	Alka mg/l	Hot Acidity mg/l	Iron mg/l	Al mg/l	Mn mg/l	Sulfate mg/l	TSS mg/l	Spec. Cond. µmho/cm	Lab ID
01-08-08	146.3	8.1	12.5	6.79	69.90	-49.95	0.42	0.26	0.11	29.0	11.0	220	**08-01-481**
02-08-08	600	7.53	11.1	6.80	44.54	-11.60	0.49	0.47	0.06	24.0	16.0	156	**08-02-311**
03-12-08	204.54	7.92	8.4	7.37	52.75	-35.02	0.35	0.21	0.06	25.0	8.0	170	**08-03-649**
04-03-08	71.42	8.12	12.2	7.62	63.68	-38.50	0.15	0.15	0.03	23.0	2.0	186	**08-04-377**
05-05-08	60	8.06	19.6	8.27	77.21	-59.32	0.15	0.07	0.03	23.0	1.0	207	**08-05-422**
06-02-08	-	7.51	19.7	7.67	68.30	-43.51	0.25	0.41	0.02	19.0	5.0	197	**08-06-412**

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Glen Dale, WV 26038
304-233-5595

Approved By: IM/BM

FORM 8.4 A
BACKGROUND/MONITORING REPORT

Operator:	Foundation Mining , LP	Monitoring Point No.:	ST62-3043
Mine Name:	Foundation Mine	Description:	
Permit No.:		Method of Flow Measurement (Weir, Meter, Etc.):	
Municipality:		Coordinates:	
Collected By:	Q E S	Elevation:	

Instructions: Use a separate sheet for each point and list results consecutively by date.

Date Sampled	Flow (GPM)	Field pH	Temp ° C	Lab pH	Alka mg/l	Hot Acidity mg/l	Iron mg/l	Al mg/l	Mn mg/l	Sulfate mg/l	Sus. Solids mg/l	Spec. Cond. µmho/cm	Lab ID
01-08-08	3066.4	7.85	16.4	7.89	58.06	-32.81	0.16	0.10	0.02	30.0	1.0	202	**08-01-487**
02-08-08	5223.8	7.61	10.0	6.86	36.80	-20.71	0.31	0.36	0.02	24.0	2.0	146	**08-02-321**
03-12-08	2596.46	7.58	8.1	7.23	44.11	-25.51	0.18	0.12	0.02	27.0	<1.0	161	**08-03-656**
04-03-08	1976.08	7.98	12.4	7.58	52.91	-25.20	0.10	0.12	0.02	25.0	1.0	178	**08-04-386**
05-05-08	1597.64	8.14	19.0	7.73	67.14	-46.32	0.11	0.11	0.03	24.0	<1.0	203	**08-05-432**
06-03-08	1486.24	7.89	17.0	7.79	60.60	-35.83	0.17	0.20	0.02	19.0	1.0	186	**08-06-415**

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Printed Name Signature Date