



COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
BUREAU OF WATERSHED MANAGEMENT

OFFICIAL USE ONLY	
ID #	_____
Date Received	_____

**NOTICE OF INTENT FOR COVERAGE  
UNDER THE GENERAL (PAG-2) NPDES PERMIT  
OR  
APPLICATION FOR AN INDIVIDUAL NPDES  
PERMIT FOR STORMWATER DISCHARGES  
ASSOCIATED WITH CONSTRUCTION ACTIVITIES**

READ THE STEP-BY-STEP INSTRUCTIONS PROVIDED IN THIS PERMIT APPLICATION PACKAGE BEFORE COMPLETING THIS FORM.

1 acre to less than 5 acres of disturbance with a point source discharge       5 acres or larger disturbance

PLEASE PRINT OR TYPE INFORMATION IN BLACK OR BLUE INK.

CHECK APPROPRIATE BOX	GENERAL <input type="checkbox"/>	INDIVIDUAL <input checked="" type="checkbox"/>			
APPLICATION TYPE	NEW <input checked="" type="checkbox"/>	RENEWAL <input type="checkbox"/> REVISED <input type="checkbox"/>			
<b>SECTION A - E&amp;S PLANNING REQUIREMENTS</b>					
1. Total Project Area (Acres):	<u>5,358</u>	Total Disturbed Area (Acres): <u>174</u>			
2. Project Name	Shaffer Mountain Wind Farm				
3. Project Description	<p>The Shaffer Mountain Wind Farm is a "green energy" project that will generate electrical power from wind. The project consists of 33 wind turbines located in Somerset County, PA. Gravel roadways are needed to provide access for construction and operational maintenance. The total roadway corridor width is approximately 45 feet including a 30-foot travel-way (15 of which will be constructed with gravel and the remaining 15 stabilized with grass vegetation), a 9-foot corridor for transmission lines, and a 6-foot section for a drainage ditch.</p> <p> <input type="checkbox"/> Residential Subdivision      <input type="checkbox"/> Sewerage/Water System      <input type="checkbox"/> Private Road/Residence  <input type="checkbox"/> Commercial/Industrial      <input type="checkbox"/> Public Road      <input type="checkbox"/> Government Facility  <input checked="" type="checkbox"/> Utility Facility/Transmission      <input type="checkbox"/> Recreational      <input type="checkbox"/> Remediation/Restoration                 </p>				
4. Please provide the latitude and longitude coordinates for the center of the project. The coordinates should be in degrees, minutes and seconds (dd mm ss.ss) Check the collection method used to determine the lat and long coordinates. See the instructions for a description of the collection methods.	<p>Latitude: <u>40</u> ° <u>8</u> ' <u>11.05</u> "      Longitude: <u>78</u> ° <u>44</u> ' <u>7.50</u> "</p> <p>Collection Method: <input type="checkbox"/> EMAP   <input type="checkbox"/> HGIS   <input type="checkbox"/> GISDR   <input type="checkbox"/> ITPMP   <input type="checkbox"/> GPS   <input type="checkbox"/> WAAS   <input type="checkbox"/> LORAN</p> <p>Check the horizontal reference datum (or projection datum) employed in the collection method. EMAP and HGIS (PNDI) have known datum and do not require checking here.   <input type="checkbox"/> NAD27   <input checked="" type="checkbox"/> NAD83   <input type="checkbox"/> WGS84 (GEO84)</p> <p>Enter the date of collection if the lat and long coordinates were derived from GPS, WAAS or LORAN.    ____ mm ____ dd ____ yyyy</p>				
5. U.S.G.S. Quad Map Name	<u>Windber, Ogletown, Central City, and Schellsburg</u>				
6. Estimated Timetable for Major Construction Activities: (Phased projects only)					
Phase No. or Name	Description	Total Area	Disturbed Area	Start Date	End Date
1	Timber harvesting activities	5358	174	May 2008	Nov. 2009
2	See item 3 above	5358	174	May 2008	Nov. 2009

7. Existing and Previous Uses of the Land Proposed for Construction (use separate sheet if necessary):

Existing Land Uses:  Agriculture  Forest/Woodland  Barren  Urban  Brownfield  Other

Description: Refer to the Post Construction Stormwater Plan (attached)

Previous Land Uses:  Agriculture  Forest/Woodland  Barren  Urban  Brownfield  Other

Description: Refer to the Post Construction Stormwater Plan (attached)

8. Potential Pollutants: (Submit the following data if soil contaminant, geology or past or present land use provides a potential for contaminated runoff from the project site) N/A  Use additional sheets if necessary.

Pollutant	Concentration w/Units	Source	Sample Type	Date(s) / Number of Samples
(1)				
(2)				

Clearly indicate the source/location of the potential pollutant(s) on the Erosion and Sediment Control (E&S) Plan drawings, and describe in the E&S plan narrative what measures are proposed to manage and control discharges of these pollutants to eliminate the potential for pollution to surface waters of the Commonwealth.

9. Describe the type, source and location of any fill materials: **Be sure to read the instructions before completing this section.**

**Clean Fill** is uncontaminated, non-water soluble, non-decomposable, inert, solid material. The term includes soil, rock, stone, dredged material, used asphalt, and brick, block or concrete from construction and demolition activities that is separate from other waste and recognizable as such. The term does not include materials placed in or on the waters of the Commonwealth unless otherwise authorized.

**Check the appropriate box**

All of the fill material placed on, or removed from the project site is Clean Fill, that, upon the performance of environmental due diligence, was found to have not been affected by a spill or release of a regulated substance.

Some or all of the fill material placed on, or removed from, the project site is Clean Fill that has been affected by a spill or release of a regulated substance. Any person placing this fill on a property must use form FP-001 to certify the origin of the fill material and the results of analytical testing to qualify the material as clean fill. A copy of this form must be retained by the owner of the property receiving the fill (waste/spoil areas and cut/borrow areas).

10. Summary of E&S Control BMPs as detailed in the attached E&S Plan:

The majority of the erosion and sediment control measures for this project are associated with construction of the roadway/cable corridors, turbine pads, overhead transmission lines, and support facilities. The centerline of the roadway corridors generally follow existing ground with a maximum 1% cross-slope following the direction of the existing slope, creating a cut slope on the upper side of the road and fill slope on the lower side. Along the top of a ridges, only fine grading will be required to establish the road grade. Erosion and sediment control will be provided by first installing the sediment barrier, which will consist of either mulch berms or 12" Filtrexx socks, along an even contour just below the fill slope. Where longitudinal slopes are too steep to correctly install the sediment barriers, 18" and 24" Filtrexx socks will be used to filter runoff. The objective is to maintain distribution of runoff across the site as much as possible. Where necessary, collection channels will be installed to direct sediment laden runoff to sediment traps. As a backup, vegetative filter strips are delineated within the project area and will serve as additional sediment filters and a post-construction BMP. Where "clean" runoff from off-site areas drain towards the construction zone, permanent diversion channels will be installed, conveying the off-site runoff along the roads, across the roads through culverts, and through rock outlet protection and level spreaders. For long continuous stretches of roadway, culverts were spaced at approximately 200 feet. All 3H:1V or steeper slopes shall require reinforced vegetation, erosion control mix, or alternative means of stabilization as identified by a licensed geotechnical engineer. Any slope that carries off-site runoff under permanent conditions shall require matting reinforcement unless alternative means of stabilization can be identified by a licensed geotechnical engineer (such as rock).

11. Stormwater Discharges to (during construction):

Waters of the Commonwealth  Municipal Separate Storm Sewer  Private Storm Sewer

<p>12. Receiving Water/Watershed Name:                  Ten streams drain the site and include Cub Run, Piney Run, Beaver Dam Run, Dark Shade Creek, Clear Shade Creek, Little Dark Shade Creek, Shingle Run and Coal Run in the Ohio River watershed and Rocklick Creek and tributaries to Dunning Creek in the Susquehanna River watershed.</p>	<p>Name of Municipal Storm Sewer Operator:</p>	<p>Name of Private Storm Sewer Operator:</p>
<p>13. Chapter 93 Receiving Water Classification:                  Cub Run (CWF), Piney Run (EV-CWF), Beaver Dam Run (HQ-CWF), Little Dark Shade Creek (CWF), Dark Shade Creek, Shingle Run (CWF), and Coal Run (CWF) in the Ohio River watershed; Rocklick Creek (WWF) and tributaries to Dunning Creek (WWF) in the Susquehanna River watershed.</p>	<p>Secondary Water:                  Dark Shade Creek (CWF), Clear Shade Creek (EV-CWF), and Shade Creek (CWF) in the Ohio River watershed; Raystown Branch of the Juniata River (WWF) in the Susquehanna River watershed.</p>	<p>Other:</p>

**SECTION B. APPLICANT INFORMATION**

Applicant's Last Name Lutz	First Name Ellen	MI	Phone 215-665-9810
			FAX 215-665-9811
Organization Name or Registered Fictitious Name Shaffer Mountain Wind, LLC			Phone FAX
Mailing Address 1 South Broad Street, 20 <sup>th</sup> Floor	City Philadelphia	State PA	ZIP + 4 19107
Co-Applicant's Last Name	First Name	MI	Phone FAX
Organization Name or Registered Fictitious Name			Phone FAX
Mailing Address	City	State	ZIP + 4

**SECTION C. SITE INFORMATION**

Site Name Shaffer Mountain		
Site Location Somerset County just east of Central City, PA		
Site Location -- City Central City	State PA	ZIP+4 15926

Detailed Written Directions to Site

1. From points east of Somerset, PA, take the Pennsylvania Turnpike (I-76) west to Exit 110, Somerset. Continue with step 3.
2. From points west of Somerset, PA, take the Pennsylvania Turnpike (I-76) east to Exit 110, Somerset. Continue with step 3.
3. From Turnpike Interchange, follow signs to Route 281 North (approx 0.7 miles straight from toll plaza).
5. Take Route 281 North (Stoystown Road) for approximately 8 miles.
6. Take Route 30 East (Lincoln Highway) for approximately 7 miles.
7. Take Route 160 North (Rock Cut Road) for approximately 3 miles towards Central City.
8. Route 160 (Rock Cut Road) turns into Lambert Street. Stay on Lambert Street beyond where Route 160 veers north.
9. Lambert Street turns into Shaffer Mountain Road after crossing railroad tracks.
10. Shaffer Mountain Road leads to the ridgeline where the project is located.

County	Municipality	City	Boro	Twp
Somerset	Shade Township	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Somerset	Ogle Township	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Bedford	Napier Township	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**SECTION D. OTHER POLLUTANTS, PREPAREDNESS PREVENTION AND CONTINGENCY (PPC) PLAN**

1. Will chemicals, solvents, other hazardous waste or materials that have the potential to cause accidental pollution during earth disturbance activities be used or stored on site? Yes  No  (If yes, a PPC Plan is required)

**SECTION E. POST CONSTRUCTION STORMWATER MANAGEMENT (PCSM) PLAN**  
**See the Attached Instructions on how to Complete This Section**

All PCSM plans should be designed to maximize infiltration technology, eliminate or minimize point source discharges to surface waters, preserve the integrity of stream channels, and protect the physical, chemical and biological qualities of the receiving water. In addition to these water quality design features, all PCSM plans must comply with local water quantity or flood control requirements.

Check those that apply:

- The attached PCSM plan was developed to be consistent with an Act 167 Stormwater Management Plan approved by the Department after July 2001.
- The attached PCSM plan was developed to be consistent with existing local ordinances that satisfy the requirements of an MS4 (NPDES Permit to Discharge Stormwater Through a Municipal Separate Storm Sewer System) permit.
- The attached PCSM plan was developed to employ water quality design features and BMPs that will manage any net increase in stormwater runoff volume resulting from the DEP recommended 2-year/24-hour frequency storm.

1. Please include the following as part of the PCSM plan:

- a. A written narrative.
- b. Plan drawings including construction details.
- c. Identification and location of post construction stormwater management BMPs. Such BMPs should address:
  - Infiltration
  - Volume and rate control
  - Water quality treatment
- d. Operation and maintenance procedures.
- e. Supporting calculations. (Supporting calculations and measurements are not required if the disturbed areas will be revegetated or otherwise stabilized with pervious material.)

2. Explain how post construction stormwater runoff volume will be managed if BMPs will not infiltrate the total net increase in stormwater runoff volume. (Net increase volume = Post construction runoff volume minus Pre-construction runoff volume):

N/A (check N/A only if BMPs will infiltrate all of the Net Change in Runoff)

The post-construction stormwater management system is designed in accordance with the 2006 PADEP Stormwater BMP Manual using Control Guidance (CG) 1. CG 1 requires that the net increase in the 2-year 24-hour runoff volume be infiltrated. This was accomplished by utilizing the Vegetative Filter Strips. The stormwater conveyance system was designed to maintain or re-establish distributed (overland) flow to allow filter strips to function properly. The BMP Manual also requires the post-construction peak flow rates for the 1, 2, 10, 25, and 100-year 24-hour storms be managed at or below pre-construction conditions. This was accomplished by increasing time of concentration through the use of diversion channels and re-establishing 100 feet of overland flow with level spreaders and by taking credit for the additional infiltration rates in the filter strips.

3. Are there existing post construction stormwater management (PCSM) BMPs at this location/site?  YES  NO

Do you plan to use or expand any of these existing PCSM BMPs?  YES  NO

List the existing PCSM BMPs that will be used or expanded.

**4. SUMMARY TABLE FOR SUPPORTING CALCULATION AND MEASUREMENT DATA**  
**See the Instructions on how to Complete This Section**

Check this box if supporting calculations and measurements are NOT required in accordance with Section E.1.e on the preceding page.

Design storm frequency <u>2-Year</u> Rainfall amount <u>2.6</u> inches	Pre-construction	Post Construction	Net Change
Impervious area (acres)	24.0	45.0(see note/end of pg 7)	21
Volume of stormwater runoff (acre-feet) without planned stormwater BMPs	74.63	75.88	1.25
Volume of stormwater runoff (acre-feet) with planned stormwater BMPs		40.70	-33.93 (See Note Below)
Stormwater discharge rate for the design frequency storm	113.6 cfs	113.6 cfs	0.0 cfs

**SUMMARY DESCRIPTION OF POST CONSTRUCTION STORMWATER BMPs**

5. In the lists below, check the BMPs identified in the PCSM Plan. Indicate the function(s) of the BMP by checking **DR** for the function detention/retention; checking **IF** for infiltration/recharge; or checking **WQ** for water quality treatment. More than one function may be checked for a BMP. List the stormwater volume and area of runoff to be treated by each BMP type. If any BMP in the PCSM Plan is not listed below, describe it in the space provided after "Other".

BMP	Function(s)	Volume of stormwater treated	Acres treated
<input type="checkbox"/> Wet ponds	<input type="checkbox"/> DR <input type="checkbox"/> IF <input type="checkbox"/> WQ		
<input type="checkbox"/> Constructed wetlands	<input type="checkbox"/> DR <input type="checkbox"/> IF <input type="checkbox"/> WQ		
<input type="checkbox"/> Retention basins	<input type="checkbox"/> DR <input type="checkbox"/> IF <input type="checkbox"/> WQ		
<input type="checkbox"/> Detention basin	<input type="checkbox"/> DR <input type="checkbox"/> IF <input type="checkbox"/> WQ		
<input type="checkbox"/> Underground detention	<input type="checkbox"/> DR <input type="checkbox"/> IF <input type="checkbox"/> WQ		
<input type="checkbox"/> Extended detention basin	<input type="checkbox"/> DR <input type="checkbox"/> IF <input type="checkbox"/> WQ		
<input type="checkbox"/> Water quality fore bay	<input type="checkbox"/> DR <input type="checkbox"/> IF <input type="checkbox"/> WQ		
<input type="checkbox"/> Infiltration trench	<input type="checkbox"/> DR <input type="checkbox"/> IF <input type="checkbox"/> WQ		
<input type="checkbox"/> Infiltration bed	<input type="checkbox"/> DR <input type="checkbox"/> IF <input type="checkbox"/> WQ		
<input type="checkbox"/> Infiltration basin	<input type="checkbox"/> DR <input type="checkbox"/> IF <input type="checkbox"/> WQ		
<input type="checkbox"/> Porous pavement	<input type="checkbox"/> DR <input type="checkbox"/> IF <input type="checkbox"/> WQ		
<input type="checkbox"/> Dry well	<input type="checkbox"/> DR <input type="checkbox"/> IF <input type="checkbox"/> WQ		
<input type="checkbox"/> Bio-infiltration areas	<input type="checkbox"/> DR <input type="checkbox"/> IF <input type="checkbox"/> WQ		
<input type="checkbox"/> Rain gardens/Bio-retention	<input type="checkbox"/> DR <input type="checkbox"/> IF <input type="checkbox"/> WQ		
<input type="checkbox"/> Vegetated filter swales	<input type="checkbox"/> DR <input type="checkbox"/> IF <input type="checkbox"/> WQ		
<input type="checkbox"/> Sand/organic filters	<input type="checkbox"/> DR <input type="checkbox"/> IF <input type="checkbox"/> WQ		
<input type="checkbox"/> Natural area conservation	<input type="checkbox"/> DR <input type="checkbox"/> IF <input type="checkbox"/> WQ		
<input checked="" type="checkbox"/> Filter/buffer strips	<input type="checkbox"/> DR <input checked="" type="checkbox"/> IF <input checked="" type="checkbox"/> WQ	37.73 acre-ft	125 acres
<input type="checkbox"/> Surfaces drain to vegetated areas	<input type="checkbox"/> DR <input type="checkbox"/> IF <input type="checkbox"/> WQ		
<input type="checkbox"/> Downspouts to vegetated areas	<input type="checkbox"/> DR <input type="checkbox"/> IF <input type="checkbox"/> WQ		
<input type="checkbox"/> Green roofs	<input type="checkbox"/> DR <input type="checkbox"/> IF <input type="checkbox"/> WQ		
<input type="checkbox"/> Cisterns/rain barrels	<input type="checkbox"/> DR <input type="checkbox"/> IF <input type="checkbox"/> WQ		
<input type="checkbox"/> Oil/grit separators	<input type="checkbox"/> DR <input type="checkbox"/> IF <input type="checkbox"/> WQ		
<input type="checkbox"/> Water quality inserts/inlets	<input type="checkbox"/> DR <input type="checkbox"/> IF <input type="checkbox"/> WQ		
<input type="checkbox"/> Street sweeping	<input type="checkbox"/> DR <input type="checkbox"/> IF <input type="checkbox"/> WQ		
<input checked="" type="checkbox"/> Other <u>Level Spreaders</u>	<input checked="" type="checkbox"/> DR <input checked="" type="checkbox"/> IF <input checked="" type="checkbox"/> WQ	0.45 acre-ft	0.45 acre
<input type="checkbox"/> Other _____	<input type="checkbox"/> DR <input type="checkbox"/> IF <input type="checkbox"/> WQ		

**Note: Potential reduction in stormwater runoff volume for the 2-year 24 hour storm considering only potential mitigation by vegetated filter strips. Tree protection credit was not factored into this calculation.**

**SECTION F. CONSULTANT FOR THIS PROJECT**

Last Name	First Name	MI
Bellini	Joseph	V
Title	Consulting Firm	
Senior Engineer	AMEC Earth and Environmental, Inc.	
Mailing Address		
One Plymouth Meeting, Suite 850		
City	State	ZIP+4
Plymouth Meeting	PA	19462-1308
Email	Phone	6108776022 Ext
joe.bellini@amec.com	FAX	6108286700

**SECTION G. PERMIT COORDINATION AND COMPLIANCE REVIEW**

Does the applicant (owner and/or operator) have or require any other Department permit or approval for this project?  
 Yes  No If yes, list each permit or approval, permit number, and description.

**Compliance History Review:**

Is/was applicant in violation of any permits issued by DEP?  Yes  No

If yes, list each permit that is/was in violation and provide compliance status of the permitted activity (use additional sheets to provide information on all permits).

Permit Program:

Permit Number:

Brief description of Non-Compliance:

Steps taken to achieve compliance and date(s) compliance achieved:

Current Compliance Status:  In-Compliance  In Non-Compliance

If the applicant is not in compliance with any environmental law or regulation, permit, order or schedule of compliance of the Department, provide a narrative description of how the applicant will achieve compliance including the appropriate milestones.

N/A

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Note:

New gravel areas were considered impervious in the hydrologic/flow calculations due to compaction and deposition of fines over time, producing runoff comparable to impervious surfaces. Per TR-55, a Runoff Curve Number of 85 was used for gravel roads.

SECTION H. CERTIFICATION

Applicant Certification

I certify under penalty of law that this application and all related attachments were prepared by me or under my direction or supervision by qualified personnel to properly gather and evaluate the information submitted. Based on my own knowledge and on inquiry of the person or persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. The responsible official's signature also verifies that the activity is eligible to participate in the NPDES permit, and that BMP's, E&S Plan, PPC Plan, PCSM Plan, and other controls are being or will be, implemented to ensure that water quality standards and effluent limits are attained. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment or both for knowing violations pursuant to Section 309(c)(4) of the Clean Water Act and, 18 Pa. C.S. §§4903-4904.

**Applicant**

**Co-Applicant (if applicable)**

Ellen Lutz, Director of Development

Print Name and Title of Person Signing

Print Name and Title of Person Signing

( 215 ) 665-9810

Telephone Number of Person Signing

( )

Telephone Number of Person Signing

Ellen Lutz

Signature of Applicant

Signature of Co-Applicant

10/25/07

Date Signed

Date Signed

Please note below the name, address and telephone number of the individual that should be contacted in the event additional information is required.

Name: Joseph Bellini, PE

Address: One Plymouth Meeting, Suite 850, Plymouth Meeting, PA, 19462-1308

Telephone: ( 610 ) 877-6022

FAX: ( 610 ) 828-6700

Notarization:

Commonwealth of Pennsylvania

County of Philadelphia

Sworn to and Subscribed to Before Me This

25 Day of October, 20 07

NOTARY  
COMMONWEALTH OF PENNSYLVANIA

NOTARIAL SEAL  
LILA DULANY, Notary Public  
City of Philadelphia, Phila. County  
My Commission Expires January 5, 2011

[Signature]  
Notary Public

My Commission Expires: 5 January 2011