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Via Electronic Filing

Ms. Barcy McNeal Public Utilities Commission of Ohio Administration/Docketing 180 East Broad Street, 11<sup>th</sup> Floor Columbus, OH 43215-3793

Re: Hog Creek Wind Farm LLC, Case Nos. 09-277-EL-BGN, 10-654-EL-BGN, 16-1422-EL-BGA and 16-1423-EL-BGA

Dear Ms. McNeal:

On March 22, 2010, the Ohio Power Siting Board ("OPBS") issued Hog Creek Wind Farm LLC ("Hog Creek") a Certificate of Environmental Compatibility and Public Need in Case No. 09-277-EL-BGN for Hog Creek I ("Hog Creek I Certificate"). On August 29, 2011, the OPSB issued a Certificate of Environmental Compatibility and Public Need in Case No. 10-654-EL-BGN for Hog Creek II ("Hog Creek II Certificate"). The orders in each of the cases established a set of conditions as part of the certificates.

On June 22, 2016, Hog Creek filed applications to amend its Hog Creek I Certificate (Case No. 16-1422-EL-BGA) and Hog Creek II Certificate (Case No. 16-1423-EL-BGA. On October 18, 2016 the Staff Report of Investigation was filed, wherein Staff recommended approval of the applications subject to compliance with the conditions set forth in Hog Creek I and II certificates and the conditions set forth in the Staff Report ("Staff Report Conditions").

Within these sets of conditions, Hog Creek I Certificate Condition No. 41, Hog Creek II Certificate Condition No. 54(c), and Staff Report Condition No. 6 require that:

At least 30 days before the preconstruction conference. Hog Creek shall submit to staff, for review and approval, the following documents: a detailed frac-out contingency plan for stream and ditch crossings that are expected to be completed via horizontal directional drill. This plan shall address monitoring during drilling activities and procedures that will be taken in the event that a frac-out occurs.

Attached is a copy of Hog Creek's frac-out plan. Thus, Hog Creek is in compliance with Hog Creek I Certificate Condition No. 41, Hog Creek II Certificate Condition No. 54(c) and Staff Report Condition No. 6.

# Bricker&Eckler

ATTORNEYS AT LAW

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If you have any questions please call at the number listed above.

Sincerely, fally W Bloomfule

Sally W. Bloomfield

Attachment

cc: Andrew Conway (w/Attachment)

Jonathan Pawley (w/Attachment)

# Hog Creek Wind Farm Directionally Drilled Installations Inadvertent Return Plan

**Hardin County, Ohio** 

October 2016

Project Information					
Project	Name	Str	Stream Name		Clearance
Hog Creek Wind Farm			N/A		N/A
County	Municipali	ty Stream	Stream Classification		
Hardin	City of Dunki	rk	N/A		
Permit Number		In-Stream Restriction Dates		Coordinates	
N/A		N/A		Various, refer to project mapping	
Contact Information					
Hog Creek Wind Farm LLC Lead:					
Ohio Environmental Protection A (Permits)		on Agency	Ohio Environmental Protection Agency (Spills)		
N/A			Division of Environmental Response, Investigation and Enforcement (ERIE): 1-800-282-9378		

### **Horizontal Directional Drilling Inadvertent Return Control Plan**

**NOTE:** Before any drilling operations begin, all applicable erosion and sedimentation controls included in the Stormwater Pollution Prevention Plan (SWPPP) will be properly installed per the included drawings and specifications and inspected by a qualified environmental inspector. The SWPPP, state permit(s), landowner restriction list, and any other applicable documents must be carefully reviewed before any disturbance occurs.

Horizontal directional drilling (HDD) is a pipeline installation method typically used to avoid disturbance of sensitive surface features, including water bodies and wetlands. There is however, the potential for surface disturbance through an inadvertent drilling fluid release. Drilling fluid releases are typically caused by pressurization of the drill hole beyond the containment capability of the overburden soil material, which allows the drilling fluid to flow to the ground surface. Releases can also be caused by fractures in bedrock or other voids in the geologic strata that allow the fluid to surface even if down hole pressures are low.

The directional drilling process uses drilling fluid to remove the cuttings from the borehole, stabilize the borehole, and act as a coolant and lubricant during the drilling process. The fluid consists primarily of water and bentonite, naturally occurring clay, active clays, inert solids and water. Drilling fluid is not a hazardous material, as it is composed of benign components; however, an inadvertent release will require mitigation measures to reduce the impact to a water body or sensitive area.

The areas that present the highest potential for drilling fluid seepage are the drill entry and exit points where the overburden depth is minimal. At the entry and exit points, a pit will be constructed to collect and provide temporary storage for the drilling fluid seepage until it can be removed. These pits will be lined with geotextile and sized adequately to accommodate the maximum volume of drilling fluid that may need to be contained in the pits. Secondary containment of the pits will contain any seepage and minimize any migration of the mud from the work area. This containment system may consist of straw bales and silt fencing around the pit.

To determine if an inadvertent release has occurred, horizontal directional drilling activities will constantly be monitored by the contractor.

The monitoring procedures will include:

- Inspection along the drill path
- Continuous examination of drilling mud pressures and return flows
- Periodic documentation of status of conditions during drilling activities

The contractor will address an inadvertent return immediately upon discovery.

If a wetland/water body release occurs, inspection to determine the potential movement of released drilling mud within the wetland/water body will be necessary. To contain and control drilling fluid seepage on land or in a water body, the contractor will have equipment and materials available onsite. Containment equipment including portable pumps, hand tools, sandbags, straw bales, silt fencing, inadvertent return barrel, and lumber will be readily available and stored at the drilling site.

The following measures will be implemented to minimize or prevent further release, contain the release, and clean up the affected area:

#### **Upland Release**

The contractor will place containment structures at the affected area to prevent migration of the release.

If the amount of the release is large enough to allow collection, the drilling mud released into containment structures will be collected and disposed of per the *HDD Fluid/Cutting Disposal* procedures at the end of this document. If the amount of the release is not large enough to allow collection, the affected area will be diluted with fresh water and restored as necessary. Steps will be taken to prevent silt-laden water from flowing into a wetland or water body.

If public health and safety are threatened by an inadvertent release, drilling operations will be shut down until the threat is eliminated.

All disturbed areas associated with the project will be stabilized and restored per the specifications outlined in the project SWPPP.

#### **Water Body Release**

If a release occurs within a water body, the contractor will attempt to place containment structures at the affected area to prevent migration of the release if feasible. If public health and safety are threatened by an inadvertent release, drilling operations will be shut down until the threat is eliminated.

All disturbed areas associated with the project will be stabilized and restored per the specifications outlined in the project SWPPP.

In the event of a return to a stream, wetland, or other water body, the contractor will contact the construction environmental manager immediately. The Contractor will use the contact information included in the *Project Information Table* at the beginning of this document to contact the appropriate parties as necessary.

#### **Drilling Operation Controls/Adjustments**

If an inadvertent return takes place, the contractor will immediately cease operations and contact the Owner. If directed by the Owner, drilling operations will be further reduced or suspended to assess the extent of the release and to implement corrective actions. Drilling will resume after the Owner's assessment of the situation. If public health and safety are threatened, drilling fluid circulation pumps will be turned off. This measure will be taken as a last resort because of the potential for drill hole collapse resulting from loss of down-hole pressure.

After a drilling fluid seepage has been contained, the contractor will make every effort to determine the cause of the seepage. After the cause has been determined, measures will be implemented to control the factors causing the seepage and to minimize the chance of recurrence.

For either water body or upland returns, the contractor, in conjunction with environmental inspectors, drill operator, etc., will attempt to adjust the drilling technique or composition of drilling fluid and implement any modifications to minimize or prevent further releases of drilling mud. This may include:

- Thickening of mud by increasing bentonite content
- Changing the drilling rate
- Changing the fluid pumping rate
- Attempting a deeper directional drill

Developing the corrective measure will be a joint effort of the Owner and the contractor and will be site and problem specific. In some cases, the corrective measure may involve a determination that the existing hole encountered a void, which may be bypassed with a slight change in the profile. In other cases, it may be determined that the existing hole encountered a zone of unsatisfactory soil material and the hole may have to be abandoned. If abandoned, the hole will be filled with cuttings and drilling fluid.

Containment equipment and materials, including lumber for temporary shoring, sandbags, portable pumps, hand tools, silt fence, and hay bales, etc., will be stored on-site. The drilling contractor will also have heavy equipment such as track excavators that can be utilized to control and clean up drilling fluid seepage. Equipment associated with fluid removal shall be of sufficient enough quality (i.e., pump capacity, hose condition) and quantity (i.e. hose length, number of pumps), to efficiently manage any returns associated with the project.

#### **Equipment on Site**

The items listed below are recommended equipment to contain an inadvertent return. Additionally, for all projects, the Material Safety Data Sheet for the fluid being used must be on site at all times.

- Vacuum Truck
- Track Excavators
- Leak free portable pumps
- Sandbags
- Plastic Sheeting

- 55 Gal. drums with bottoms cut out
- Hay Bales
- Spill Kits
- Leak free hoses
- Filter Sock/Fence

## **HDD Fluid/Cutting Disposal**

If applicable, a VacBox/Tank/Container for containment will be placed on site or on call (within 3 hours) to contain the drilling fluids and cuttings associated with the drilling operation. A composite sample of the drilling fluids will be collected for analytical testing and completion of the Form U (chemical data reporting) composite. Once the drilling fluids have passed the analytical testing and the Form U has been approved, drilling fluid will be disposed of at an approved disposal facility. However, if drilling fluid is found to be impacted or contaminated, the contractor will defer to The Owner for disposal instructions as well as any cost associated with removal of impacted or contaminated soils.

\*All residual directional drill material must be disposed of at a properly certified facility or location in accordance with all applicable laws and regulations.

This foregoing document was electronically filed with the Public Utilities

**Commission of Ohio Docketing Information System on** 

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in

Case No(s). 09-0277-EL-BGN, 10-0654-EL-BGN, 16-1422-EL-BGA, 16-1423-EL-BGA

Summary: Correspondence of Hog Creek Wind Farm LLC in Compliance with Certificate Conditions 41 and 54(c) and Staff Report Condition 6 electronically filed by Teresa Orahood on behalf of Sally W. Bloomfield