From: Valerie Kitchell [mailto:Valerie@wpd-canada.ca]
Sent: Thursday, July 05, 2012 4:57 PM
To: Linda Russell
Cc: Heather Stauble; Ron Taylor
Subject: RE: Hydrogeological Report

Hi Linda,

Thanks for your message. I apologize, as there's been some confusion. The City requested a Hydrogeological Report, and wpd provided the Geotechnical Report back in March. The Geotechnical Report includes monitoring wells installed to assess ground water at the locations of the turbines, just as a Hydrogeological Report would, and as such the report was provided in response to the City's request. Under the REA process, Hydrogeological Reports are required for Class 2 and 3 anaerobic digestion plants and thermal treatment facilities only. The Geotechnical Report is necessary for construction planning purposes, but is not part of the REA consultation process.

For this wind project, a Water Report is required, which has been available for review on our website and at the Bethany library. It is an aquatic resource assessment comprised of a records review and a comprehensive site investigation, including any potential impacts to wells and aquifers in the Project Area along with mitigation measures. Likely Jane would be interested in a combination of the Water Report and the Geotechnical Report. Clearly our communication with Jane used incorrect terminology, and I am sorry for the confusion.

I understand that Jane is concerned about nearby wells and the High Aquifer Vulnerability Area. Our assessments have shown no adverse impacts on wells in the Project Area. Project infrastructure will be remaining well above the groundwater level, and as such no adverse impacts on aquifers are anticipated. With respect to any potential spills, activity within the High Aquifer Vulnerability Area will be strictly managed: storage of hazardous materials will not be permitted, re-fueling within this area will be restricted, and any machinery transporting hazardous materials in the area will be equipped with a spill containment kit and trained operator, who will also be able communicate with the closest MOE office if necessary.

Again, I apologize for any confusion. I will certainly speak with staff here regarding avoiding this in future. I hope this helps to clarify, and should there be any questions you can always refer them back to us.

Regards,
Valerie

Valerie Kitchell
Renewable Energy Approvals|wpd Canada
(p) 905-813-8400, Ext. 151

From: Linda Russell [mailto:lrussell@city.kawarthalakes.on.ca]
Sent: Thursday, July 05, 2012 11:05 AM
To: Valerie Kitchell
Cc: Heather Stauble; Ron Taylor
Subject: Hydrogeological Report

Hi Valerie,

The City has received a number of requests to review the above document, in which wpd has indicated to ratepayers that they have provided to the City. Staff confirms that we have not received a Hydrogeological Report.

Can you please send as soon as possible.

Thank you,

Linda Russell, BAA
Planner 2
City of Kawartha Lakes
Development Services - Planning Division
180 Kent Street West, 2nd Floor
Lindsay, ON K9V 2Y6

From: Heather Stauble
Sent: July 4, 2012 9:43 PM
To: Linda Russell; Ron Taylor
Subject: Fwd: WPD and water

Do we have a hydrogeologicalreport? See below.

Sent from my iPad

Begin forwarded message:

From: Water Wind <socm2009@live.com>
Date: 4 July, 2012 6:21:45 PM EDT
To: <hstauble@city.kawarthalakes.on.ca>
Subject: WPD and water

Hi Heather:

I just received this reply back from WPD with regard to the hydrogeological studies...so it seems city staff have a report the public has not been privy to.

Jane

There are 5 water features that fall within 120 m of components of the WPD project - a seasonal fish habitat, a complex fish habitat, a large man-made pond, two artesian wells, and a small spring The small spring will be in the direct path of the electrical line to go along Gray Road. The aquifer in this area is one of High Vulnerability. Will a hydrologist and/or

hydrogeologist be conducting an in-depth study? If so, will that study and analysis be made available to the public? If not, why not?

A Hydrogeological report has been conducted on the Project area. The report has been shared with Municipal development staff for their information.

A councillor from CKL was contacted about the possible hydrogeological report being shared with the planning staff and this was the response received:

The Report I believe he is referring to is:
http://canada.wpd.de/fileadmin/pdfs/Sumac%20Ridge/10%20-%20Sumac%20Ridge%20DRAFT%20Water%20Report.pdf
which is posted on their website. This is the same one that we were sent. I am not aware of any other reports that we received.

The Water Report is not the same thing asa hydrogeological study. Moreover, the qualifications of the NRS staff were listed, and none have credentials in the field of hydrogeology.

If there is a hydrogeological report, is it different than the Water Report? If so, will it be made available to the public? If not, why not?

Further to the questions about water.... Were the two nearby schools contacted as to the depth of their wells and the daily and annual water consumption? Likewise, was similar information researched about the nearby community well that services the town of Pontypool? If so, where can one access this information? Is there a compilation of area well records?

A hyrdrogeological report was completed and shared with Municipal planners separate from the other REA reports. This report is different from the Water Report and was not published on the wpd website or sent as part of the package of REA Reports as it is not part of the REA submission. From our understanding, the municipal planners have reviewed all the reports including the Hydrogeological Report and will be forwarding their comments to Municipal Council for review. Before excavation commences, a geotechnical study is completed at all potential sites for ground water depth as well as to determine necessary parameters required for foundation design. For stability reasons, turbine foundations cannot be built in areas where the ground water is too close to the surface. If water is encountered at any time, good construction practices will be used such as minimizing the length of time

that the excavation is open and monitoring seepage during excavation. Should pumping be required to dewater excavated areas, water will be directed to the closest drain or spread across the buildable area and appropriate energy dissipation techniques will be used to reduce the potential for erosion and sourcing. The base of each turbine is generally around 3M deep, which is above the water table.