

Jackie Bedwell

From: Thomas, Gareth <Gareth.Thomas@cyfoethnaturiolcymru.gov.uk>
Sent: 05 February 2015 10:24
To: Jackie Bedwell; Matthew Phillips; planning_admin@wrexham.gov.uk
Cc: Wort, Elaine
Subject: P/2014/0275 - F Lloyd Penley, Wrexham Industrial Estate (NT/2014/116561)

Dear Mr Phillips,

Thank you for consulting us on the email from Portal Construction NW limited, dated 15 January 2015, which supplies some information on the type of piling that is to be carried out at the site.

We understand that this system installs a self sealing grout /clay by mean of auguring. Therefore, we have no objection to the piling in principle providing that the piles do not go into bedrock.

Piling can result in physical disturbance of aquifers. Depending on depth they can lower or raise groundwater levels, alter groundwater flow paths, or even cut off groundwater flow completely. Piling can interconnect aquifers that were previously separate and can create pathways for contamination to travel to previously uncontaminated strata and groundwater.

For that reason, we require further information to demonstrate that a foundation works risk assessment has been carried out and that there will be no unacceptable impact on the groundwater.

For future information, the applicants may find the following guidance useful. It is available for free download on www.gov.uk website:

- Piling in layered ground: risks to groundwater and archaeology. Environment Agency and English Heritage. 1 October 2006
- Piling into contaminated sites, Environment Agency, 2002. Our guidance provides useful information on piling and penetrative ground improvement methods on land affected by contamination.
- Piling and penetrative ground improvement methods on land affected by contamination: guidance on pollution prevention, Environment Agency, 2001. Guidance on the risks associated with pollution from piling and penetrative ground improvement methods on contaminated land and how to prevent pollution from these processes.

For further information regarding the above, the applicants are advised to contact Elaine Wort, Geoscience Officer, on 0300 065 3828, also copied in to this response.

Kind regards,

Gareth Thomas
Swyddog Cyswllt Cynllunio / Planning Liaison Officer
Cyfoeth Naturiol Cymru / Natural Resources Wales
Ffôn/Tel: (01248) 48 4075
Siaradwr Cymraeg / Welsh Speaker

E-bost/E-mail:

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Ein diben yw sicrhau bod adnoddau naturiol Cymru yn cael eu cynnal, eu gwella a'u defnyddio yn gynaliadwy, yn awr ac yn y dyfodol.

Our purpose is to ensure that the natural resources of Wales are sustainably maintained, enhanced and used, now and in the future.

From: Jackie Bedwell <jackie@portalnw.co.uk>

Sent: 15 January 2015 10:15

To: Thomas, Gareth; Matthew Phillips

Cc: Wort, Elaine

Subject: RE: P/2014/0275 - F Lloyd Penley, Wrexham Industrial Estate (NT/2014/116561)

Hello Mr Thomas

Please find attached attached regarding the ground improvement works for your attention

Thank you and kind regards



Jackie Bedwell, Manager

Portal Construction NW Limited

Tel No: 01270 618180 | Fax No: 01270 620170

Andrews Property Investments Limited

Tel No: 01270 627753

From: Thomas, Gareth [mailto:Gareth.Thomas@cyfoethnaturiolcymru.gov.uk]

Sent: 15 December 2014 15:06

To: Matthew Phillips

Cc: Jackie Bedwell; Wort, Elaine

Subject: RE: P/2014/0275 - F Lloyd Penley, Wrexham Industrial Estate (NT/2014/116561)

Dear Mr Phillips,

We refer to additional information received concerning the above application, namely "Typical Pad Foundations Setting Out Details" that was received direct by email (dated 12 Dec 2014) from Jackie Bedwell, Manager of Portal Construction NW Ltd.

At the planning application stage, we advised that a number of conditions should be applied to any granting of permission. These included our piling condition as follows:

"Piling or any other foundation designs using penetrative methods shall not be permitted other than with the express written consent of the Local Planning Authority, which may be given for those parts of the site where it has been demonstrated that there is no resultant unacceptable risk to groundwater."