

Technical Appendix 10.5: Consultee Responses

Our Ref: RFI/483/18/Tas809388

28th January 2019

Being Dealt With By: Patricia Breen
Contact Number: 028 2766 0257

Ms. Catriona Downey
McCloy Consulting
52 Mallusk Enterprise Park
Newtownabbey
BT36 4GN

Dear Ms Downey,

**REQUEST FOR ACCESS TO INFORMATION
ENVIRONMENTAL INFORMATION REGULATIONS 2004
Gruig Extension Ref M01616-08, Site centroid 312180,420750**

Thank you for your enquiry with respect to the above site. Information held by this Department is detailed below.

This Department would advise that not all the area relating to the request fall within Causeway Coast and Glens Borough Council. Information provided below only covers information held by Causeway Coast and Glens Borough Council and does not cover any area of the request outside this Borough.

1. The location and details of all private surface water supply abstractions/intakes within the downstream catchment of the site

Causeway Coast and Glens Borough Council are not the body responsible for surface water abstractions.

For any other details of contact should be made with the relevant regulatory body –

Contact Information:

Civic Headquarters, Cloonavin,
66 Portstewart Road, Coleraine, BT52 1EY

Telephone: +44 (0) 28 7034 7034
Fax: +44 (0) 28 7034 7026
Email: info@causewaycoastandglens.gov.uk
www.causewaycoastandglens.gov.uk

Northern Ireland Environment Agency
17 Antrim Road
Lisburn
BT28 3AL

2. Any associate water quality data

None

3. The location and details of all private ground water abstractions/intakes within 5km of site

This Department has record of a private water supply at 21 Reservoir Road, Corkey, BT44 9JE.

This Department only samples single private water supplies on request from a householder.

Registration of private water supplies is administered by the Drinking Water Inspectorate.

For any other details of contact should be made with the relevant regulatory body –

Contact Information:

Drinking Water Inspectorate
Northern Ireland Environment Agency
Klondyke Building,
Cromac Avenue,
Gasworks Business Park,
Lower Ormeau Road,
Belfast, BT7 2JA

4. Any associated water quality data

A water sample was lifted at 21 Reservoir Road on 14/12/2011 and was found to be satisfactory - <1MPN Coliforms/100ml and <1 MPN *E.coli*/100ml.

5. Classification of supply for surface water and ground water abstractions i.e. surface water, ground water, spring fed etc.

The private water supply at 21 Reservoir Road is a borehole.

6. The location and details of any private discharges within a 1km radius of the site

This Department does not authorise discharge consents.

For any other details of contact should be made with the relevant regulatory body –

Contact Information:
Northern Ireland Environment Agency
Klondyke Building,
Cromac Avenue,
Gasworks Business Park,
Lower Ormeau Road,
Belfast, BT7 2JA

7. Additional information

Altnahinch Dam on Altnahinch Road is within 5km of the location. You may wish to contact NI Water with regards the water supply.

Individuals are free to use any information supplied, where the Council is the copyright owner of the information, for their own use, including for non-commercial research purposes. The information may also be used for the purposes of news reporting. However, any other type of re-use, such as: copying, publishing, distributing and transmitting the Information; adapting the Information; exploiting the Information commercially for example, by combining it with other Information, or by including it in your own commercial product or application, will be subject to the copyright and re-use conditions under the Open Government Licence.

If you are dissatisfied with how the Council handled your request for information, you have the right to request that the Council formally review this decision. If you wish to do so, please write within 40 working days to the:

Chief Executive
Causeway Coast and Glens Borough Council
Cloonavin
66 Portstewart Road
Coleraine, BT52 1EY.

Should you remain dissatisfied following the Council's internal review, you can seek an independent review from the Information Commissioner. A request for an independent review should be made in writing to: Information Commissioner at ICO, Wycliffe House, Water Lane, Wilmslow, Cheshire, SK9 5AF. The Information Commissioner has indicated that a review will not be undertaken unless the Council has first had an opportunity to reconsider its decision.

Please be advised that under the Freedom of Information Act, replies including the request may be released into the public domain via our website www.coastwaycoastandglens.gov.uk. Personal details in respect of your request will, where applicable, be removed to protect confidentiality.

Civic Headquarters, Cloonavin,
66 Portstewart Road, Coleraine, BT52 1EY

Telephone: +44 (0) 28 7034 7034
Fax: +44 (0) 28 7034 7026
Email: info@causewaycoastandglens.gov.uk
www.causewaycoastandglens.gov.uk

Yours sincerely

Patricia Breen

Environmental Health Officer

Ballymoney Office

14 Charles Street

Ballymoney

BT53 6DZ

Patricia.breen@causewaycoastandglens.gov.uk

This correspondence has been produced having regard to this Department's **Enforcement Policy**. If you are unhappy with any of the matters raised the Council operates a **Corporate Complaints Procedure** to allow you to register your concerns. **Complaints Number: 028 7034 7134**. Copies of both documents may be obtained from this office or by logging on to comments@causewaycoastandglens.gov.uk

GDPR

Council will hold your name and contact details to progress your request as part of its public task duties.

Information regarding your general privacy rights or how to contact the Data Protection Officer is available on the Privacy Section of Council's website.

Civic Headquarters, Cloonavin,
66 Portstewart Road, Coleraine, BT52 1EY

Telephone: +44 (0) 28 7034 7034
Fax: +44 (0) 28 7034 7026
Email: info@causewaycoastandglens.gov.uk
www.causewaycoastandglens.gov.uk

Caitriona Downey

Subject: FW: M01616-08 Gruig Ext. Landfills Environmental Information Request

From: Crime, Environmental <EnvironmentalCrime@daera-ni.gov.uk>

Sent: 04 January 2019 11:28

To: Caitriona Downey

Subject: RE: M01616-08 Gruig Ext. Landfills Environmental Information Request

Good morning Caitriona,

Our research has not disclosed any historic or current investigations relating to illegal landfill sites within 2km of this site.

Regards,

Gail Hunter

Gail Hunter
Enforcement Branch
Northern Ireland Environment Agency
Gasworks Business Park
Belfast
BT7 2JA

Tel: (028) 9056 9332

From: Caitriona Downey

Sent: 03 January 2019 15:31

To: Crime, Environmental <EnvironmentalCrime@daera-ni.gov.uk>

Subject: M01616-08 Gruig Ext. Landfills Environmental Information Request

**Our Ref: M01616-08 Gruig Ext.
Water and Geology Assessment**

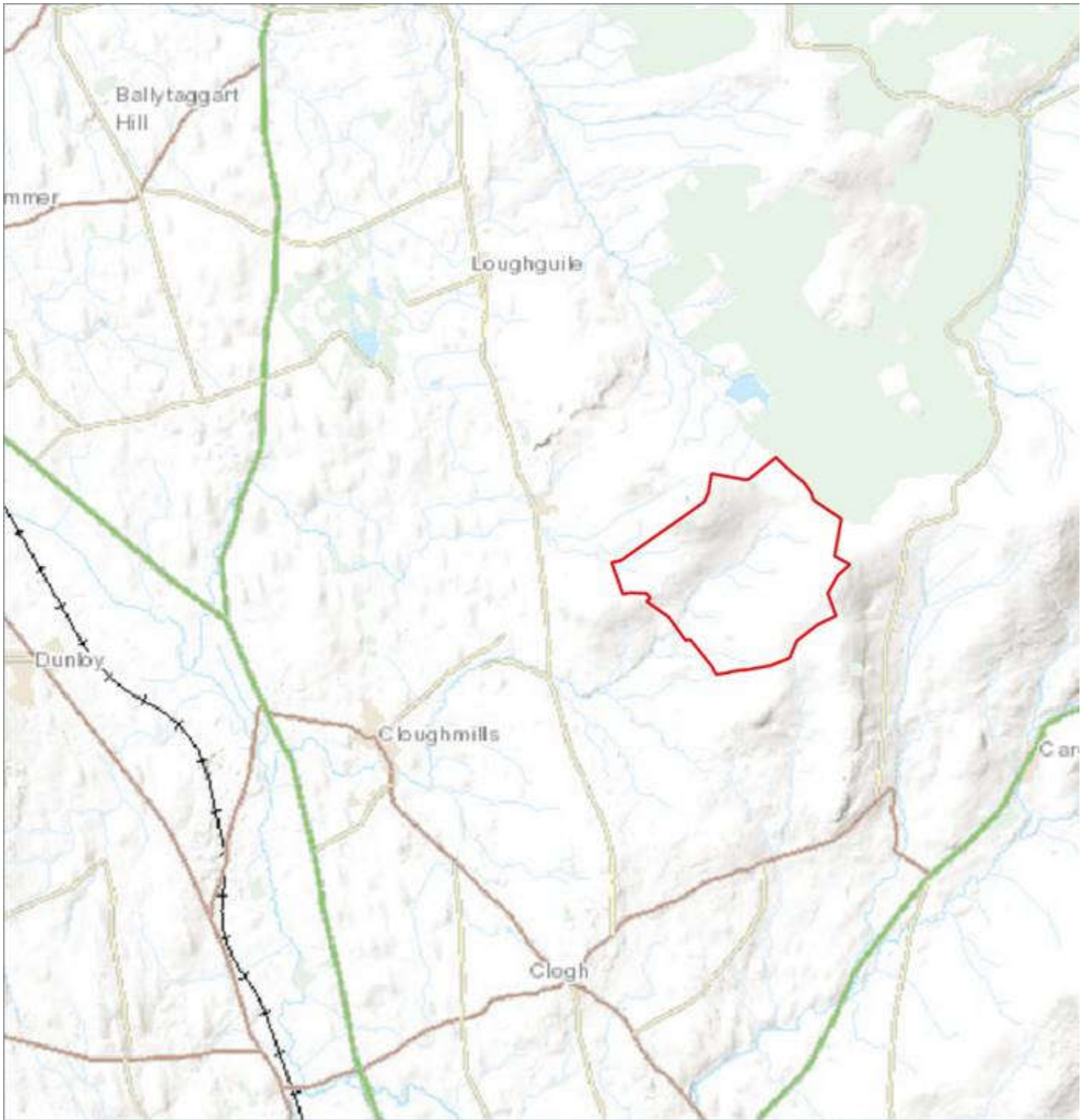
FAO: DAERA Environmental Crime Dept.

McCloy Consulting has been commissioned to undertake a Geology & Water Environment assessment as part of an Environmental Statement for a proposed windfarm at Gruig, Co. Antrim

As part of this assessment McCloy Consulting will assess the baseline conditions.

Can you please assist by providing the details of any unlicensed landfills within 2km of the site.

The site location is as shown on the attached map and the site centroid is IGR: 312180, 420750



Kind regards,

Caítriona

Caitriona Downey

Graduate Consultant | Belfast



E: Caitriona.Downey@mccloyconsulting.com | T: +44 (0) 28 9084 8694 | W: www.mccloyconsulting.com
Mossley Mill, Lower Ground (West), Carnmoney Road North, Newtownabbey BT36 5QA

Check out our new website at www.mccloyconsulting.com

Disclaimer: Information contained in this e-mail is intended for the use of the addressee only and is confidential and may contain commercially sensitive material. Any dissemination, copying or other use of this communication, other than for which it is explicitly intended, without the permission of the sender is strictly prohibited. If you have received this e-mail in error, please advise the sender immediately and delete it from your system. Whilst all e-mails are screened for known viruses, the company cannot accept responsibility for any which may have been transmitted. We reserve the right to use the contact details of individuals obtained through direct correspondence for marketing purposes.

Iain Muir

From: Ferguson, Paul (Fisheries Inspectorate) <Paul.Ferguson@daera-ni.gov.uk>
Sent: 02 May 2019 09:39
To: Kyle Somerville
Subject: FW: M01616-06 Gruig WF and M01616-07 Ballygilbert

Hi Kyle,

DAERA SEA FISHERIES INSPECTORATE have no issues or concerns from Aquaculture aspect with these project's as we have no aquaculture sites close to the developments.

If I can be of any further assistance please contact me.

Regards
Paul Ferguson
DAERA
Fisheries Inspectorate
02844618064

From: Caitriona Downey [<mailto:Caitriona.Downey@mccloyconsulting.com>]
Sent: 19 April 2019 14:29
To: Ferguson, Paul <Paul.Ferguson@daera-ni.gov.uk>
Cc: Hood, Greg <greg.hood@daera-ni.gov.uk>
Subject: M01616-06 Gruig WF

Re: M01616-08 Gruig WF
Proposed WF at Gruig, Co. Antrim

FAO: Fisheries Inspectorate

Hi Paul, I appreciate your on your holidays and have a lovely break. Could you please provide a response to the below as well when you return?

McCloy have been commissioned to undertake a water and geology assessment for a proposed development site Gruig, Co. Antrim – shown below. The site centroid is 312180, 420750).

As part of this assessment the following will be carried out to assess the impact on baseline hydrological conditions.

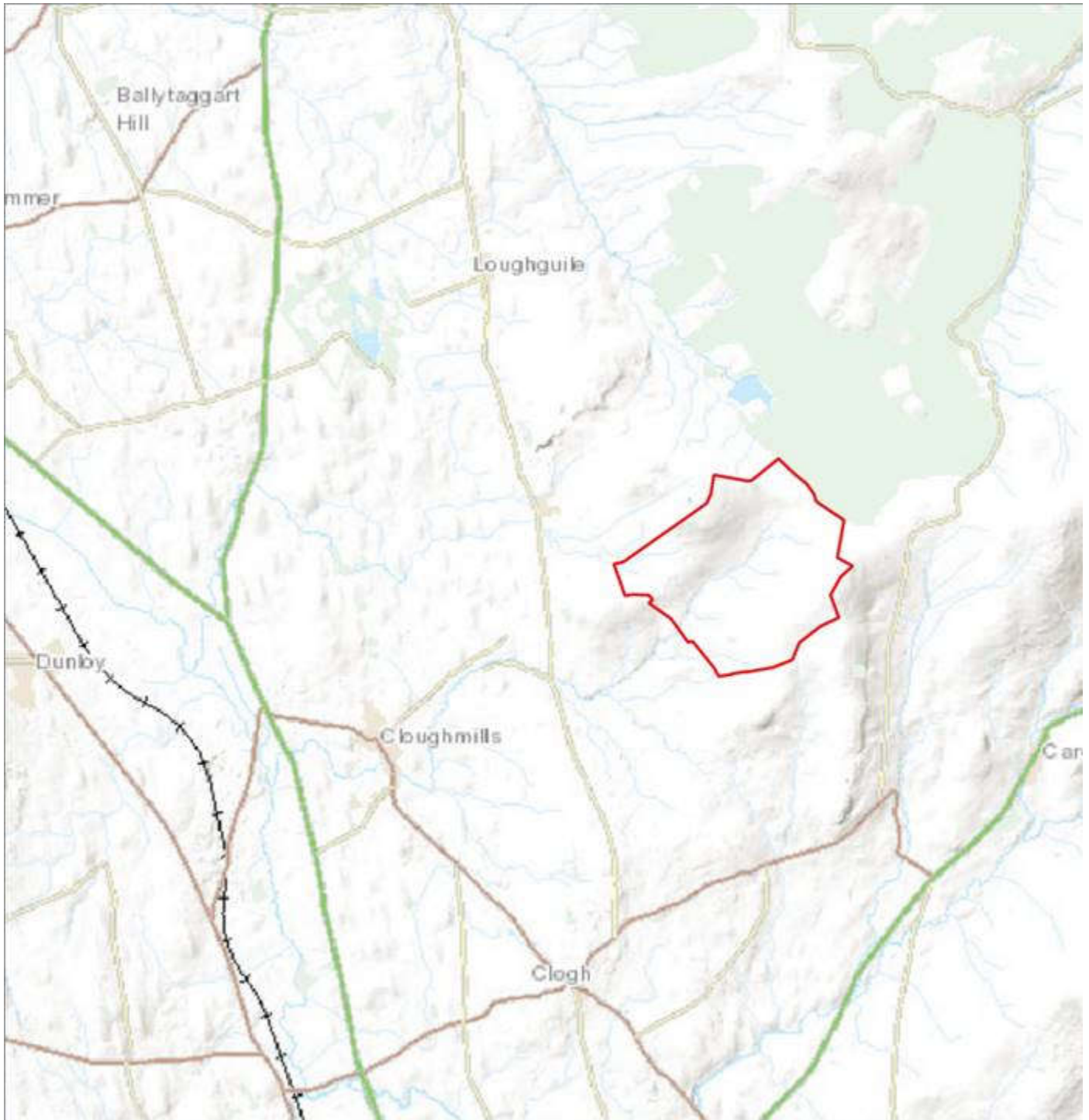
- Mapping of watercourses on site
- Review and assessment of existing water quality
- Assessment of the impact on watercourses and water quality caused by the proposed development
- Provide initial details of mitigation proposed.

We would be grateful if the Fisheries Inspectorate as a statutory consultee could provide the following:

- Details of any salmonid or other fishery related designations for all watercourses in the vicinity of the site and any downstream catchments of the site.

- Advise any further considerations that are deemed appropriate for a hydrological, hydrogeological or geological assessment at the site from your perspective.

We would be grateful if you could acknowledge receipt of this request and provide an indicative timescale for the issue of a response.



Kind regards,

Caítriona

Caitriona Downey

Graduate Consultant | Belfast



E: Caitriona.Downey@mccloyconsulting.com | T: +44 (0) 28 9084 8694 | W: www.mccloyconsulting.com
Mossley Mill, Lower Ground (West), Carnmoney Road North, Newtownabbey BT36 5QA

Check out our new website at www.mccloyconsulting.com

Disclaimer: Information contained in this e-mail is intended for the use of the addressee only and is confidential and may contain commercially sensitive material. Any dissemination, copying or other use of this communication, other than for which it is explicitly intended, without the permission of the sender is strictly prohibited. If you have received this e-mail in error, please advise the sender immediately and delete it from your system. Whilst all e-mails are screened for known viruses, the company cannot accept responsibility for any which may have been transmitted. We reserve the right to use the contact details of individuals obtained through direct correspondence for marketing purposes.

Iain Muir

From: Hood, Greg
Sent: 10 May 2019 12:23
To: 'kyle.somerville@mccloyconsulting.com'
Subject: Re: M01616-08 Gruig WF

Kyle,

Regarding the email below.

The nature and locations of the proposed area is noted. The water course that will be mainly effect in this instance will be the Aghanagheeragh River and Killagan River that are tributaries, on the River Main catchment. Sites on this catchment are used for monitoring of salmonid populations by AFBI and DAERA Inland Fisheries.

If required inland Fisheries can provide this data. Water courses within the area as outlined in attached map and downstream of the area supports populations of salmonid species both Salmon and Brown/ Sea Trout.

Fish populations are sensitive to reductions in water quality and fisheries habitat is susceptible to siltation from suspended solids.

Consideration of potential impacts of project methodology on the aquatic environment and water quality should be considered.

Disturbance to watercourses during operations may require authorisation under section 48 of the Fisheries Act (NI) 1966 (as amended).

The applicant should be made aware that it is an offence under section 47 of the Fisheries Act (Northern Ireland) 1966 to cause pollution which is subsequently shown to have a deleterious effect on fish stocks..

Regards

Greg Hood

Inland Fisheries
Department of Agriculture, Environment and Rural Affairs
1st Floor
Klondyke Building
Cromac Avenue
Belfast, BT7 2JA
Tel: 028 90569532 (ext: 69532)
Mob: 07584 167368
Web: www.daera-ni.gov.uk



Please consider the environment - do you really need to print this e-mail?

From: Caitriona Downey [<mailto:Caitriona.Downey@mccloyconsulting.com>]
Sent: 19 April 2019 14:29
To: Ferguson, Paul <Paul.Ferguson@daera-ni.gov.uk>

Cc: Hood, Greg <greg.hood@daera-ni.gov.uk>

Subject: M01616-06 Gruig WF

Re: M01616-08 Gruig WF

Proposed WF at Gruig, Co. Antrim

FAO: Fisheries Inspectorate

Hi Paul, I appreciate your on your holidays and have a lovely break. Could you please provide a response to the below as well when you return?

McCloy have been commissioned to undertake a water and geology assessment for a proposed development site Gruig, Co. Antrim – shown below. The site centroid is 312180, 420750).

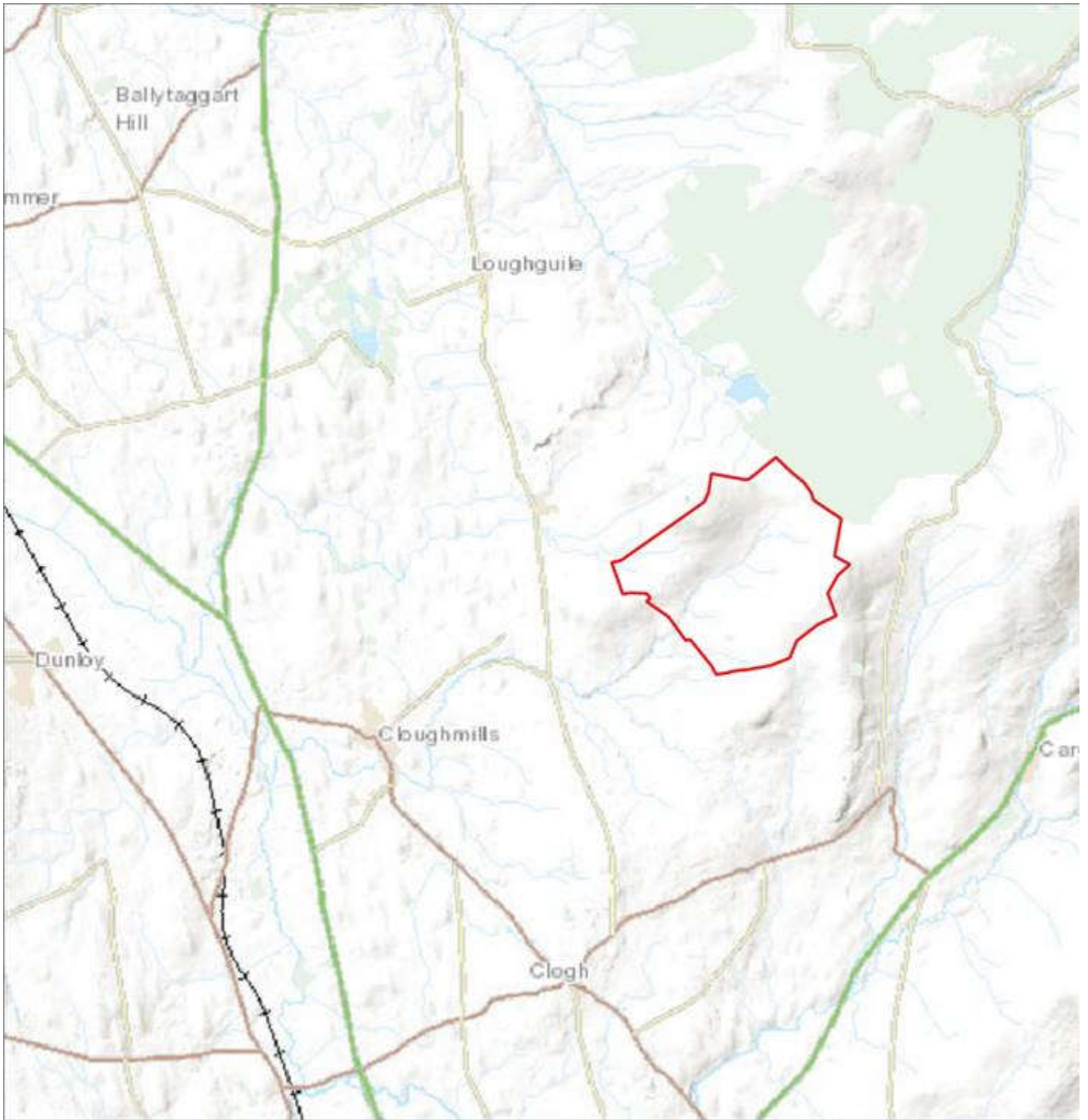
As part of this assessment the following will be carried out to assess the impact on baseline hydrological conditions.

- Mapping of watercourses on site
- Review and assessment of existing water quality
- Assessment of the impact on watercourses and water quality caused by the proposed development
- Provide initial details of mitigation proposed.

We would be grateful if the Fisheries Inspectorate as a statutory consultee could provide the following:

- Details of any salmonid or other fishery related designations for all watercourses in the vicinity of the site and any downstream catchments of the site.
- Advise any further considerations that are deemed appropriate for a hydrological, hydrogeological or geological assessment at the site from your perspective.

We would be grateful if you could acknowledge receipt of this request and provide an indicative timescale for the issue of a response.



Kind regards,

Caítriona

Caitriona Downey

Graduate Consultant | Belfast



E: Caitriona.Downey@mccloyconsulting.com | T: +44 (0) 28 9084 8694 | W: www.mccloyconsulting.com
Mossley Mill, Lower Ground (West), Carnmoney Road North, Newtownabbey BT36 5QA

Check out our new website at www.mccloyconsulting.com

Disclaimer: Information contained in this e-mail is intended for the use of the addressee only and is confidential and may contain commercially sensitive material. Any dissemination, copying or other use of this communication, other than for which it is explicitly intended, without the permission of the sender is strictly prohibited. If you have received this e-mail in error, please advise the sender immediately and delete it from your system. Whilst all e-mails are screened for known viruses, the company cannot accept responsibility for any which may have been transmitted. We reserve the right to use the contact details of individuals obtained through direct correspondence for marketing purposes.

DfI Rivers Lisburn



Department for

Infrastructure

An Roinn

Bonneagair

www.infrastructure-ni.gov.uk

Caitriona Downey
McCloy Consulting
Mossley Mill
Lower Ground (West)
Carnmoney Road North
Newtownabbey
BT36 5QA

Ravarnet House
36 Altona Road
Lisburn
BT27 5QB
Tel: 028 9260 6100

Your reference: M01616-08
Our reference: IN1-19-246

11 January 2019

Dear Caitriona,

RE: CLOUGHMILLS, CO ANTRIM - GRUIG EXT. DFI RIVERS INFORMATION REQUEST

Thank you for your email dated 03 January 2019 regarding the above. From a drainage aspect my comments are as follows.

There are no designated watercourses or culverts under the terms of the Drainage (Northern Ireland) Order 1973 within or bounding your site. The Department does not maintain a database of undesignated watercourses, which may be present. In this regard, you are advised to consult with Ordnance Survey and/or undertake site inspections, etc.

The Department has no record of any historical flood calls at the location of your proposed site and our records show that the site lies outside the strategic Q100 flood plain.

The department cannot make any guarantees that there will be no flooding at this location in the future

Please quote above reference number on any further correspondence.

Yours Sincerely

Mark Scott
Engineering Section



Department for the
Economy
www.economy-ni.gov.uk

GSNI Geological
Survey of
Northern
Ireland
Celebrating 70 years: 1947–2017

Dundonald House
Upper Newtownards Road
Belfast
BT4 3SB

Phone: 028 9038 8462
Fax: 028 9038 8461
**E-mail: gsni@economy-
ni.gov.uk**

GSNI Ref : E2914

Planning Ref: LA01/2022/0230/DETEIA

Date of Consultation: 23/03/2022

Planning Contact: DfI Strategic Planning Division

Proposed Development: Intention to submit Environmental Statement for Proposed Carnbuck Wind farm with up to 12 three-bladed horizontal wind turbines, each up to 180m maximum height above ground level and associated external electricity transformers.

Location: Townlands of Carnbuck, Magheraboy and Moneyneagh, near Corkey, County Antrim.

Consultation Type: Planning

Comments:

A Peat Slide Risk Assessment (PSRA) is a requirement where there is peat within the boundary of a proposed development site. The presence of peat which can be determined by i) direct observation, ii) reference to published geology or soil maps or iii) by intrusive investigation.

In addition, the following factors should be considered:

1. The presence of past peat landslides or pre-failure indicators.
2. In blanket bogs, which typically mantle hillslopes, where slopes exceed 2° and in raised bogs (which typically occur on very gentle terrain) regardless of the slope angle.

Legislation

Under Schedule 2 of The Planning (Environmental Impact Assessment) Regulations (Northern Ireland) 2017, any installation for the harnessing of wind power for energy production that includes (i) the installation of more than 2 turbines; or (ii) the hub height of any turbine or height of any other

structure exceeds 15 metres, should carry out an Environmental Impact Assessment, of which the PSRA is a component.

Planning Policy Statement 18, Renewable Energy (Policy RE1) applies to all wind energy developments that have the potential to create a significant risk of peat landslide. Planning Policy Statement 2, Natural Heritage (Policies NH1, NH2, NH3 and NH5) and the Strategic Planning Policy Statement apply to all developments that have the potential to impact on designated sites, protected species and priority habitats.

PSRA Requirements

The content and structure of a PSRA is ultimately the responsibility of the developer or their nominated agent. The PSRA should include, as a minimum, the following key elements:

- An assessment of the character of the peatland within the development site boundary including thickness and extent of peat, and a demonstrable understanding of site hydrology and geomorphology;
- An assessment of evidence for past landslide activity and present-day instability e.g. pre-failure indicators;
- Quantitative assessment of the potential for or likelihood of future peat landslide activity;
- Identification of receptors (e.g. habitats, watercourses, infrastructure, human life) exposed to peat landslide hazards; and
- A site-wide qualitative or quantitative risk assessment that considers the potential consequences of peat landslides for the identified receptors.

A PSRA should satisfy;

- An understanding of the geological, geomorphological and hydrology of the site;
- An understanding of peat slide hazards and demonstrate that site specific peat slide hazards have been properly considered;
- A clear outline of the proposed designed changes to the site and full consideration of the impact of proposed changes to the site including any cascading effects;
- The information and data is included to identify and assess the potential impact that the specific development will have on the surface stability of the site;
- Demonstrate that site specific peat stability information has been properly reviewed, analysed and presented within the PSRA;
- A risk based approach has been taken to delimit the site according to the risk rating outlined in table 1; and

- A description of any proposed measures to mitigate and reduce adverse impacts, if required.

The assessment would normally comprise desk study, site reconnaissance, site mapping and probing, hazard and risk assessment and reporting. For more detailed descriptions of each of these elements please see the following [best practice documentation](#).

Best regards,

Planning Team, Geological Survey of Northern Ireland

Date: 31/03/2022

Caitriona Downey

To: Wilson, Paul (DfE)
Subject: RE: M01616-08 Gruig Ext. Information Request - Geohazards

From: Wilson, Paul (DfE) <Paul.Wilson@economy-ni.gov.uk>
Sent: 03 January 2019 15:25
To: Caitriona Downey
Subject: RE: M01616-08 Gruig Ext. Information Request - Geohazards

Dear Caítriona,

A happy new year to you too. You are fortunate that I happen to be in the office. Alas in future you may be waiting a few weeks again.

I am aware of some other abstraction points to the west of your site towards Cloghmills. I would suggest contacting the drinking water inspectorate to learn more about these as I cannot hand out any other information on them.

My colleague, Kieran Parker, will likely be in contact when he returns from leave regarding geohazards.

Yours sincerely,

Paul Wilson

Geological Survey of NI
Department for the Economy
Dundonald House
Upper Newtownards Road
Belfast, BT4 3SB
Tel: 028 9052 0973 (ext: 20973)
TextRelay: 18001 028 9052 0973
Web: www.economy-ni.gov.uk



Please consider the environment - do you really need to print this e-mail?

From: Caitriona Downey [<mailto:Caitriona.Downey@mccloyconsulting.com>]
Sent: 03 January 2019 15:20
To: Wilson, Paul (DfE) <Paul.Wilson@economy-ni.gov.uk>; Parker, Kieran <Kieran.Parker@economy-ni.gov.uk>
Subject: RE: M01616-08 Gruig Ext. Information Request - Geohazards

Hi Paul,

Happy new year, thanks for the quick response. I should have specified in the email that the search was to include the area within the site red line boundary and 1 km beyond – would you be able to confirm there are no other records or groundwater boreholes or springs within this search area?

Kind regards,

Caítriona

From: Wilson, Paul (DfE) <Paul.Wilson@economy-ni.gov.uk>
Sent: 03 January 2019 15:12
To: Parker, Kieran <Kieran.Parker@economy-ni.gov.uk>; Caitriona Downey <Caitriona.Downey@mccloyconsulting.com>
Subject: RE: M01616-08 Gruig Ext. Information Request - Geohazards

Dear Caitriona,

I have had a look at your study area. We do not hold any other records of groundwater boreholes or springs that are within a 1 km radius of the site centroid you provided.

On our Geoindex, we now have an index of the hydrogeological reports that we hold within GSNI. Please visit http://mapapps2.bgs.ac.uk/GSNI_Geoindex/home.html.

The karst features (including karst springs) and tracerlines datasets are also available for download through the GSI website at <https://www.gsi.ie/en-ie/data-and-maps/Pages/Groundwater.aspx#KarstFeatures>.

Yours faithfully,

Paul Wilson

Geological Survey of NI
Department for the Economy
Dundonald House
Upper Newtownards Road
Belfast, BT4 3SB
Tel: 028 9052 0973 (ext: 20973)
TextRelay: 18001 028 9052 0973
Web: www.economy-ni.gov.uk

Please consider the environment - do you really need to print this e-mail?

From: DfE GSNI

Sent: 03 January 2019 12:34

To: Wilson, Paul (DfE) <Paul.Wilson@economy-ni.gov.uk>; Parker, Kieran <Kieran.Parker@economy-ni.gov.uk>

Subject: FW: M01616-08 Gruig Ext. Information Request - Geohazards

From: Caitriona Downey [<mailto:Caitriona.Downey@mccloyconsulting.com>]

Sent: 03 January 2019 12:31

To: DfE GSNI <GSNI@economy-ni.gov.uk>

Subject: M01616-08 Gruig Ext. Information Request - Geohazards

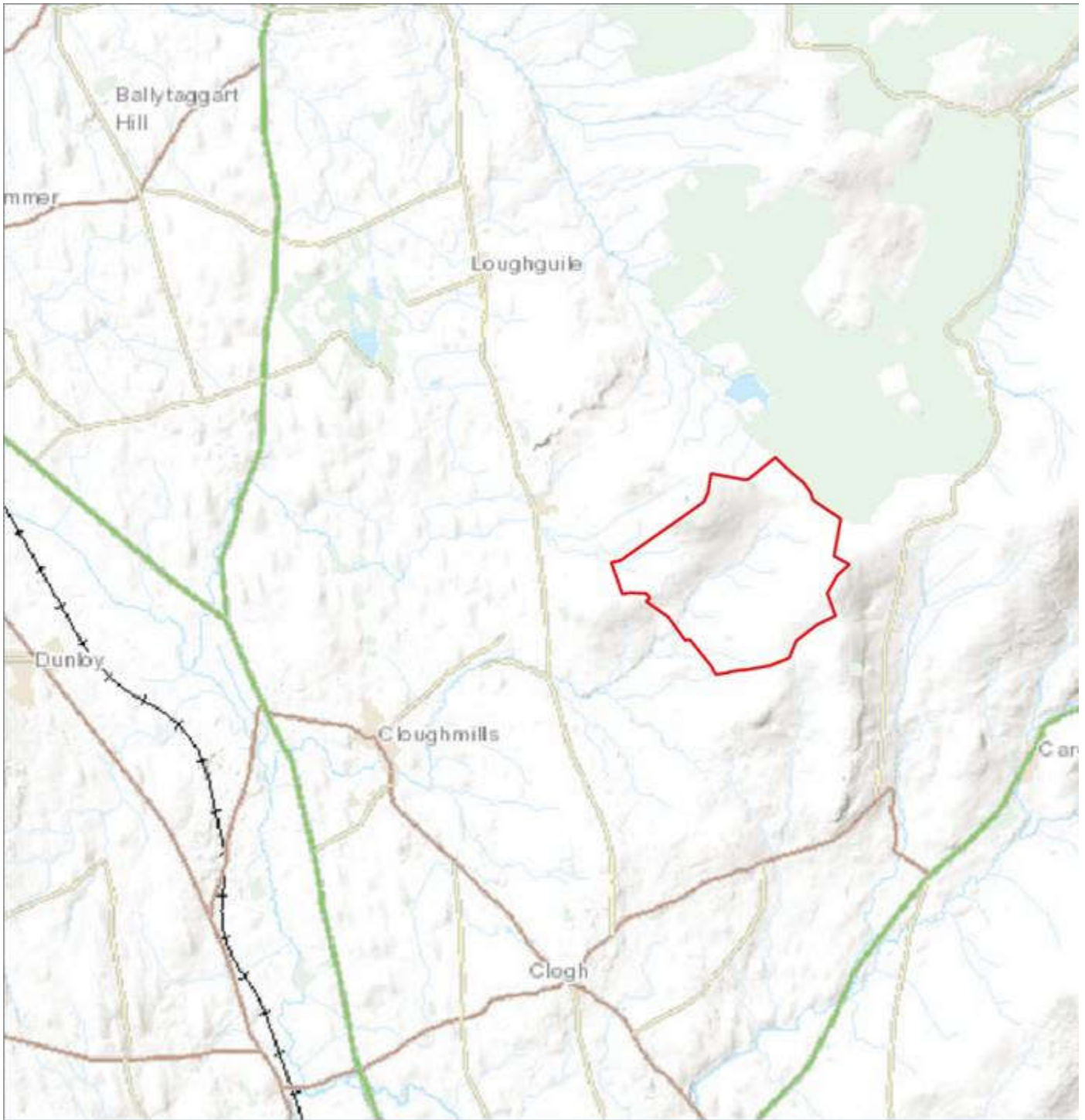
Our Ref: M01616-08 Gruig Ext.

McCloy Consulting have been appointed to carry out a Water and Geology chapter for an Environmental Statement for the proposed site (Gruig, Co. Antrim) – shown below. The site centroid is 312180, 420750). As part of this assessment we intend to determine baseline hydrological conditions constraints and identify any particular geohazards.

As part of the scoping for this assessment we have undertaken a review of the information available of the GSNI Index. We would be grateful if GSNI could assist in providing details of any particular concerns or geohazards for example;

- Boreholes and springs in close proximity to the site in question
- Karst features
- Peat slide hazards (in particular the landslide deposits shown on the 'mass movement' layer in the south west of the application boundary)
- Other geohazards GSNI would deem relevant for consideration in this assessment

Please do not hesitate to get in touch if you require any further information, many thanks



Kind regards,

Caítriona

Caitriona Downey

Graduate Consultant | Belfast



E: Caitriona.Downey@mccloyconsulting.com | T: +44 (0) 28 9084 8694 | W: www.mccloyconsulting.com
Mossley Mill, Lower Ground (West), Carnmoney Road North, Newtownabbey BT36 5QA

Check out our new website at www.mccloyconsulting.com

Disclaimer: Information contained in this e-mail is intended for the use of the addressee only and is confidential and may contain commercially sensitive material. Any dissemination, copying or other use of this communication, other than for which it is explicitly intended, without the permission of the sender is strictly prohibited. If you have received this e-mail in error, please advise the sender immediately and delete it from your system. Whilst all e-mails are screened for known viruses, the company cannot accept responsibility for any which may have been transmitted. We reserve the right to use the contact details of individuals obtained through direct correspondence for marketing purposes.

Caitriona Downey

Subject: FW: M01616-08 Gruig Ext. Information Request - Geohazards

From: Wilson, Paul (DfE) <Paul.Wilson@economy-ni.gov.uk>
Sent: 03 January 2019 15:12
To: Parker, Kieran <Kieran.Parker@economy-ni.gov.uk>; Caitriona Downey
Subject: RE: M01616-08 Gruig Ext. Information Request - Geohazards

Dear Caitriona,

I have had a look at your study area. We do not hold any other records of groundwater boreholes or springs that are within a 1 km radius of the site centroid you provided.

On our Geindex, we now have an index of the hydrogeological reports that we hold within GSNI. Please visit http://mapapps2.bgs.ac.uk/GSNI_Geindex/home.html.

The karst features (including karst springs) and tracerlines datasets are also available for download through the GSI website at <https://www.gsi.ie/en-ie/data-and-maps/Pages/Groundwater.aspx#KarstFeatures>.

Yours faithfully,

Paul Wilson

Geological Survey of NI
Department for the Economy
Dundonald House
Upper Newtownards Road
Belfast, BT4 3SB
Tel: 028 9052 0973 (ext: 20973)
TextRelay: 18001 028 9052 0973
Web: www.economy-ni.gov.uk

Please consider the environment - do you really need to print this e-mail?

From: DfE GSNI
Sent: 03 January 2019 12:34
To: Wilson, Paul (DfE) <Paul.Wilson@economy-ni.gov.uk>; Parker, Kieran <Kieran.Parker@economy-ni.gov.uk>
Subject: FW: M01616-08 Gruig Ext. Information Request - Geohazards

From: Caitriona Downey [<mailto:Caitriona.Downey@mccloyconsulting.com>]
Sent: 03 January 2019 12:31
To: DfE GSNI <GSNI@economy-ni.gov.uk>
Subject: M01616-08 Gruig Ext. Information Request - Geohazards

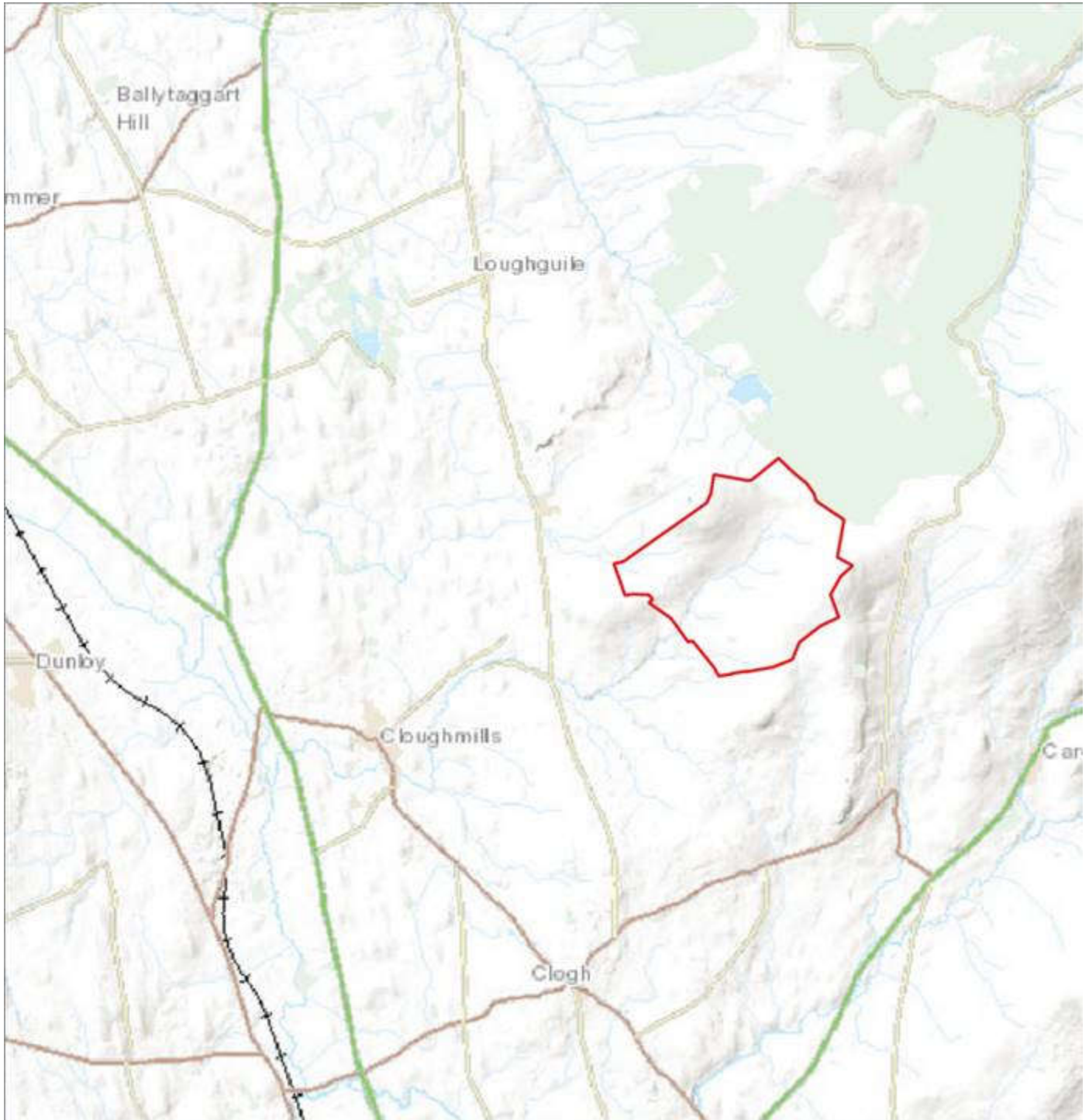
Our Ref: M01616-08 Gruig Ext.

McCloy Consulting have been appointed to carry out a Water and Geology chapter for an Environmental Statement for the proposed site (Gruig, Co. Antrim) – shown below. The site centroid is 312180, 420750). As part of this assessment we intend to determine baseline hydrological conditions constraints and identify any particular geohazards.

As part of the scoping for this assessment we have undertaken a review of the information available of the GSNI Index. We would be grateful if GSNI could assist in providing details of any particular concerns or geohazards for example;

- Boreholes and springs in close proximity to the site in question
- Karst features
- Peat slide hazards (in particular the landslide deposits shown on the 'mass movement' layer in the south west of the application boundary)
- Other geohazards GSNI would deem relevant for consideration in this assessment

Please do not hesitate to get in touch if you require any further information, many thanks



Kind regards,

Caítriona

Caitriona Downey

Graduate Consultant | Belfast



E: Caitriona.Downey@mccloyconsulting.com | T: +44 (0) 28 9084 8694 | W: www.mccloyconsulting.com
Mossley Mill, Lower Ground (West), Carnmoney Road North, Newtownabbey BT36 5QA

Check out our new website at www.mccloyconsulting.com

Disclaimer: Information contained in this e-mail is intended for the use of the addressee only and is confidential and may contain commercially sensitive material. Any dissemination, copying or other use of this communication, other than for which it is explicitly intended, without the permission of the sender is strictly prohibited. If you have received this e-mail in error, please advise the sender immediately and delete it from your system. Whilst all e-mails are screened for known viruses, the company cannot accept responsibility for any which may have been transmitted. We reserve the right to use the contact details of individuals obtained through direct correspondence for marketing purposes.

Caitriona Downey

Subject: FW: M01616-08 Gruig Ext. Information Request - Geohazards
Attachments: Gruig Ext.jpg; Gruig BH.jpg

From: Parker, Kieran <Kieran.Parker@economy-ni.gov.uk>
Sent: 08 January 2019 12:44
To: Caitriona Downey
Cc: Smyth, William <William.Smyth@economy-ni.gov.uk>
Subject: RE: M01616-08 Gruig Ext. Information Request - Geohazards

Hi Caitriona,

The site is adjacent to a number of disused mines most of which lie greater than 300m to the SE. These are driven into the hillside in a westerly/north-westerly direction towards the site. Although the entrances lie outside the boundary, consideration of the risk they pose to the site should be considered in the Environmental Statement. I have attached a map of the area. Further information on these mine sites may be available through a full mine search at a cost of £60+vat

The area is predominantly overlain with peat deposits with mapped mass movement deposits on its western side. Consideration should be given to the stability of the site with a peat slide risk assessment conducted based on site specific geotechnical data and incorporating the hydrogeological interaction within the peat deposits. Limited information on the peat depth is known for this area however prior reports for the Gruig Wind Farm Development will be beneficial. There is no borehole records for within the site boundary with the closest borehole data located north of the site (see attached map) and worth liaising with my colleague William.smyth@economy-ni.gov.uk to discuss its relevance.

Any questions, get in touch.

Regards,

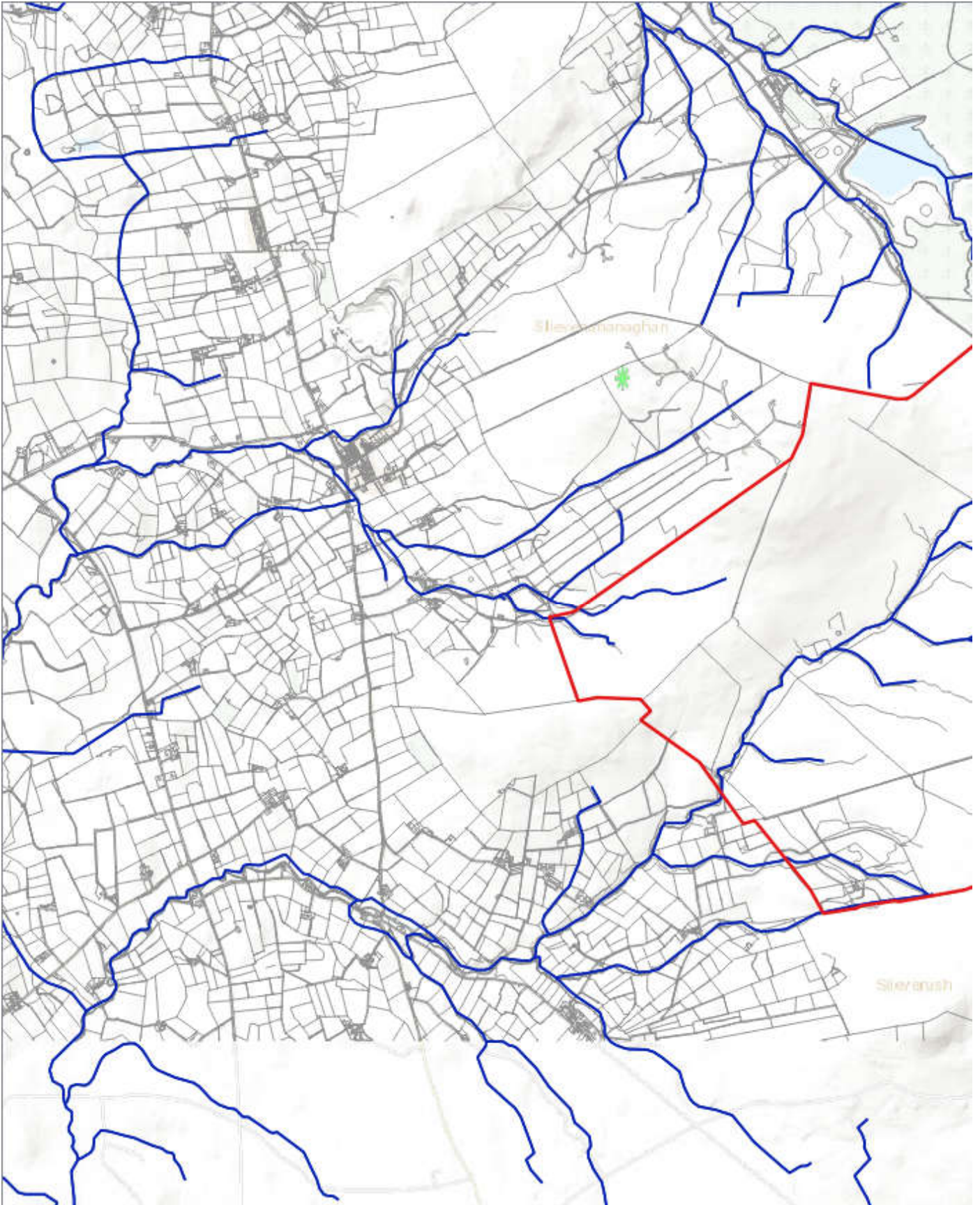
Kieran

From: Caitriona Downey [<mailto:Caitriona.Downey@mccloyconsulting.com>]
Sent: 08 January 2019 10:07
To: Parker, Kieran <Kieran.Parker@economy-ni.gov.uk>
Subject: RE: M01616-08 Gruig Ext. Information Request - Geohazards

Hi Kieran,

Please see the study area at a closer scale, the boundary is a preliminary study area and subject to change – it is unlikely the full area shown would be included in a planning application

I have overlaid the GSNI shafts and adits WMS layer for reference, let me know if you require anything else, I can send the boundary as a shapefile it that is more helpful.



Kind regards,

Caítriona

From: Parker, Kieran <Kieran.Parker@economy-ni.gov.uk>

Sent: 07 January 2019 11:34

To: Caitriona Downey

Subject: RE: M01616-08 Gruig Ext. Information Request - Geohazards

Hi Caitriona,

The area has a number of adjacent abandoned mine workings on its eastern side which could potentially affect ground stability. Could you please provide a map of the boundary – zoomed in closer than the one provided so I can ascertain if these need to be considered.

Regards

Kieran

From: Caitriona Downey

Sent: 03 January 2019 12:31

To: DfE GSNI <GSNI@economy-ni.gov.uk>

Subject: M01616-08 Gruig Ext. Information Request - Geohazards

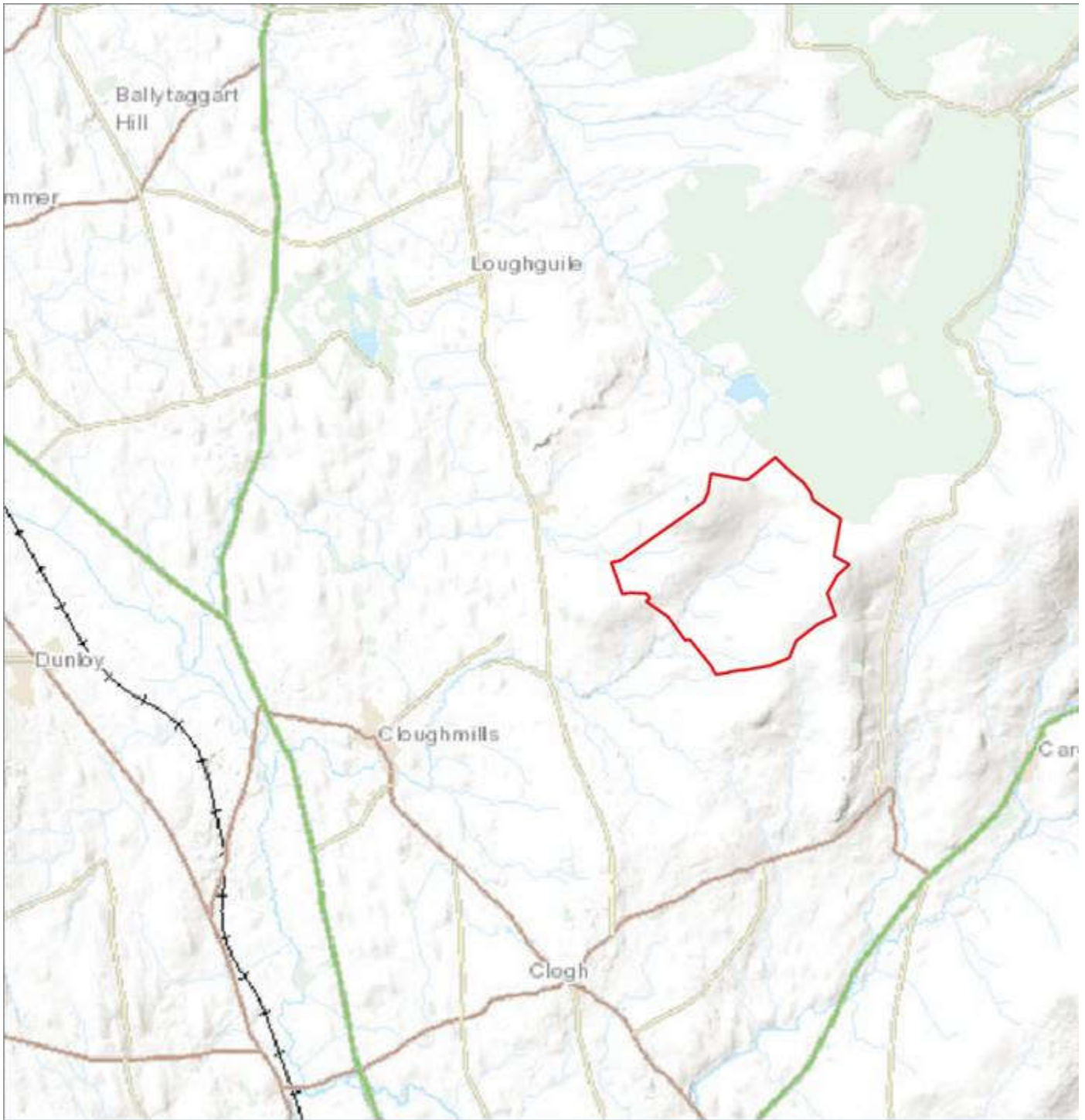
Our Ref: M01616-08 Gruig Ext.

McCloy Consulting have been appointed to carry out a Water and Geology chapter for an Environmental Statement for the proposed site (Gruig, Co. Antrim) – shown below. The site centroid is 312180, 420750). As part of this assessment we intend to determine baseline hydrological conditions constraints and identify any particular geohazards.

As part of the scoping for this assessment we have undertaken a review of the information available of the GSNI Index. We would be grateful if GSNI could assist in providing details of any particular concerns or geohazards for example;

- Boreholes and springs in close proximity to the site in question
- Karst features
- Peat slide hazards (in particular the landslide deposits shown on the ‘mass movement’ layer in the south west of the application boundary)
- Other geohazards GSNI would deem relevant for consideration in this assessment

Please do not hesitate to get in touch if you require any further information, many thanks



Kind regards,

Caítriona

Caitriona Downey

Graduate Consultant | Belfast



E: Caitriona.Downey@mccloyconsulting.com | T: +44 (0) 28 9084 8694 | W: www.mccloyconsulting.com
Mossley Mill, Lower Ground (West), Carnmoney Road North, Newtownabbey BT36 5QA

Check out our new website at www.mccloyconsulting.com

Disclaimer: Information contained in this e-mail is intended for the use of the addressee only and is confidential and may contain commercially sensitive material. Any dissemination, copying or other use of this communication, other than for which it is explicitly intended, without the permission of the sender is strictly prohibited. If you have received this e-mail in error, please advise the sender immediately and delete it from your system. Whilst all e-mails are screened for known viruses, the company cannot accept responsibility for any which may have been transmitted. We reserve the right to use the contact details of individuals obtained through direct correspondence for marketing purposes.

McCloy Consulting
Mossley Mill,
Lower Ground (West),
Carnmoney Road North,
Newtownabbey
BT36 5QA

Dear Ms Downey

Re: M01616-08 Grug Extension Information Request

The current licence is for all minerals vested in the Department for the Economy. In addition, the company has options for gold and silver from the Crown Estate.

The proposed site location has had limited regional exploration activity carried out by the DfE license holder. This regional exploration has not generated areas for focussed follow up and as such, there are currently no constraints to development of the area, based on mineral prospectivity.

Yours sincerely

Mark Patton
Minerals Geologist
Geological Survey of Northern Ireland

Env Ref: **639116**
Being dealt with by: Mr Sam Mills Tel: - 0300 1245 000
sam.mills@midandeantrim.gov.uk



Date: 19th June 2019

Iain Muir
McCloy Consulting
Mossley Mill,
Carnmoney Road North,
NEWTOWNABBEY
BT36 5QA

Re:- Request for Environmental Information
Site:- Guig Windfarm Extension, Carnbuck, Cloughmills

Please find information requested by you with regard to the above site in relation to private water supplies within 1km.

This information in this response is provided in good faith based on your enquiry and on a 'without prejudice' basis.

A search radius of 1000m has been carried out centred on the grid co-ordinates 312180, 420750.

We would highlight that most of your enquiry site is located within Causeway Coast and Glens Borough Council area, as denoted by the pink line boundary with the map below.

You should refer to the relevant department within that authority to determine information for that area.

Please reply to:

Head Office
The Braid
1-29 Bridge Street
Ballymena BT43 5EJ

Ballymena Office
Ardeevin
80 Galgorm Road
Ballymena BT42 1AB

Carrickfergus Office
Museum & Civic Centre
11 Antrim Street
Carrickfergus BT38 7DG

Larne Office
Smiley Buildings
Victoria Road
Larne BT40 1RU

Tel: 0300 1245 000
www.midandeantrim.gov.uk

Chief Executive: Anne Donaghy



6. Private Water Supplies

Private Water Supplies located within the enquiry area:

Reference Number	NIL RETURN
Name	
Supply Address	
Nature of Premises	
Owner	
Classification	
Disinfection	
Filtration	
Mains	
Population Served	
Purpose	
Seasonal	
Source	
X Coordinate	
Y Coordinate	



Mid & East Antrim Borough Council
Tel: 0300 1245 000

www.midandeastantrim.gov.uk

Causeway Coast and Glens Borough Council should be contacted for information relating to private water supplies within their borough.

Also information may be sought from Drinking Water Inspectorate for Northern Ireland (within Department of Agriculture, Environment and Rural Affairs)

This information in this response is provided in good faith based on your enquiry and on a 'without prejudice' basis.

Yours faithfully

A handwritten signature in black ink, appearing to read 'Sam Mills', written over a horizontal line.

Sam Mills
Environmental Health Officer



Caitriona.Downey@mccloyconsulting.com Information Management Unit
IT Suite
Westland House
40 Old Westland Road
Belfast
BT14 6TE

Tel: 9035 4813 ext 20242

Email: john.collins@niwater.com

Your reference: M01616-08 Gruig Ext.

Our reference: NIW 1819312

Date: 14 January 2019

Dear Ms Downey,

Environmental Information Regulations 2004

Thank you for your email of 03 January 2019, in which you requested information about water intake at Altnahinch Reservoir.

As your queries fall under the definition of environmental requests, NI Water is replying under the disclosure provisions of the Environmental Information Regulations 2004 ("the EIR").

NI Water replies to each of your queries, in turn, as follows.

- *The operational status of the intake*
The intake is operational.
- *NI Water proposed constraints to development upstream*
Please see Annex A (attached).

- *Any further surface water intakes with the potential to be affected by the specified area*

The Impounding Reservoir is also fed by Altnahinch Burn.

- *Any active groundwater intakes with the potential to be affected by the specified area*

NI Water does not have any groundwater intakes in the specified area. However, there may be private supplies in the area; NI Water does not hold records of these.

- *Any further information held that would be relevant to inform an assessment of the water environment.*

Other relevant information may be available in Annex A.

We would be grateful if NI Water can confirm :

- *If there are any further public water abstractions within 5 km of this site, or*
- *Any borehole abstractions used by NI Water within 5 km of the site.*

I can confirm that there are no borehole abstractions used by NI Water within 5km of the site. In relation to your request for public water abstractions, information on public and private water abstractions should be sought from the Department of Agriculture, Environment and Rural Affairs (DAERA). Their contact details are as follows.

Abstraction & Impoundment Licensing Team

Water Management Unit

NIEA

17 Antrim Road

Tonagh

Lisburn

County Antrim

BT28 3AL

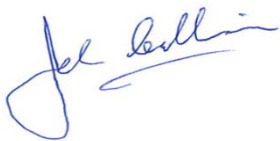
Email: AIL@daera-ni.gov.uk

You have the right to request that NI Water formally review this response within forty working days of the date of this letter. If you wish to do so, please write to NI Water Information Management Unit, IT Suite, Westland House, 40 Old Westland Road, Belfast, BT14 6TE.

If, after such an internal review, you are still unhappy with the response, you have the right to appeal to the Information Commissioner at Wycliffe House, Water Lane, Wilmslow, CHESHIRE, SK9 5AF, who will undertake an independent review.

If you have any queries about this letter, please contact me. Please remember to quote the reference number above in any future communications.

Yours sincerely

A handwritten signature in blue ink, appearing to read 'John Collins', with a stylized flourish underneath.

John Collins
Head of Corporate Information
Northern Ireland Water

Protecting drinking water and NI Water assets during development activities

1. Protecting Drinking Water Quality

The proposed development is within the drinking water catchment area for an NI Water Water Treatment Works (WTW) and there is an important drinking water abstraction point downstream of the development. This drinking water catchment has been designated as a drinking water protected area under Article 7 of the Water Framework Directive. Any development must demonstrate measures to ensure water quality and quantity are protected.

The primary issue concerning development activities is the potential impact on drinking water quality and quantity. There is a risk that the development activities could adversely affect raw water quality abstracted for drinking water and measures must be put in place to ensure that raw water quality and quantity are protected at all times.

1.1 Impact on water quality

There is potential for deterioration in raw water quality in the water abstracted for drinking water supply in relation to the proposed development.

The developer should show details in the planning application on the proposed water quality sampling programme and analysis in the vicinity of the site and in relation to the drinking water abstraction point. This water quality analysis should be made available to NI Water as requested on an ongoing basis.

Any spillages of oils, chemicals or any other potential pollutants used or stored on the site which reach the watercourse could very quickly travel to the drinking water abstraction point. Stringent pollution prevention control measures will need to be specifically developed to protect this drinking water source from spillages of any potential pollutants.

1.2 Impact on water quantity

It must be demonstrated that there will no long term risk of damaging the hydrology of the area which could potentially impact on the water quantity available at the abstraction point.

2. Regulatory requirements

- 2.1 The regulations relating to the quality of drinking water supplied by NI Water are The Water supply (Water Quality) Regulations (Northern Ireland) 2017. These regulations are derived from the European Drinking Water Directive 98/83/EC.
- 2.2 Water Treatment Works are designed to treat the specific parameters of the raw water source they receive (i.e. the specific chemical, biological and other characteristics of natural, untreated water). If the characteristics of the raw water change or deteriorate, it can affect the ability of the works to supply drinking water to customers at the required standards.
- 2.3 NI Water is required to ensure that any activity within a drinking water catchment does not affect the ability of NI Water to meet its regulatory requirements.
- 2.4 Drinking water catchments feed NI Water abstractions which supply water to water treatment works. Under Article 7 of the Water Framework Directive, waters used for the abstraction of drinking water are designated as Drinking Water Protected Areas (DWPA). The objective of the Water Framework Directive is to ensure that no activity results in the deterioration of waters within the DWPA. If an activity falls within a DWPA or drinking water catchment, it is essential that water quality and quantity are protected.

3. Specific precautions for drinking water protection

- 3.1 A detailed, site specific Construction Method Statement including e.g. Construction Environmental Management Plan, Risk Assessment, Pollution Prevention and Contingency Plan must be completed and made available to NI Water.
- 3.2 Where possible, infrastructure and activities should be located outside of the catchment area. If this can be demonstrated to be impracticable then all infrastructure and activities should be located 100m from any watercourse where possible, and a minimum of 50m distant where 100m can be demonstrated to be undeliverable.

- 3.3 Any potential effect on the hydrology of the area resulting from the construction and operation of the proposed development should be assessed and the findings presented in the Environmental Statement/environmental appraisal accompanying the planning application. This should include an assessment of effects on natural drainage patterns, base flows/volume, retention/run off rates and potential changes to water quantity. Any required mitigation measures and proposed monitoring should also be detailed in the Environmental Statement or environmental appraisal accompanying the planning application.
- 3.4 When constructing roads, drainage ditches and trenches, drainage should not be directed into adjacent catchments but retained within the existing catchment.
- 3.5 Any potential pollution risk which could affect water quality should be considered and mitigation measures implemented to prevent deterioration in water quality and pollution incidents. This includes sediment run-off, soil or peat erosion, management of chemicals and oils, etc. This should be considered for operations at all stages of development including pre- and post- construction.
- 3.6 Mitigation measures to prevent pollution to watercourses should be outlined in the Environmental Statement or environmental appraisal accompanying the planning application and adopted in the Construction Method Statement/Construction Environmental Management Plan prior to work starting onsite. Any measures implemented should be regularly checked, maintained and improved if pollution occurs.
- 3.7 Watercourses that feed into any watercourses or reservoirs that NI Water abstracts from should be considered when developing new road or access infrastructure. Any crossing of these watercourses should be kept to a minimum. Pollution prevention measures should be put in place at each crossing point and silt traps, or equivalent, should be installed at regular intervals to minimise the risk from pollution. Once constructed, site roads and access routes should be regularly maintained to ensure minimal erosion, and hence run-off and pollution, from the road surface.
- 3.8 No refuelling or storage of fuel or hazardous materials should take place within the drinking water catchment area. If this can be demonstrated to be impracticable, then the appropriate Pollution Prevention Guidelines. There should be dedicated oil storage areas created. Spill kits should be located within all vehicles, plant and high risk areas.

- 3.9 Waste storage, concrete preparation and all washout areas should not be within the drinking water catchment area. If this can be demonstrated to be impracticable then this should be in dedicated areas 50m from a watercourse and designed to be contained and to prevent escape of materials / runoff to the environment.
- 3.10 The proposed method of managing welfare and waste water facilities should be detailed in the Environmental Statement or environmental appraisal accompanying the planning application.
- 3.11 Any proposed abstractions for activities such as welfare facilities, cement batching plants etc., should be detailed in the Environmental Statement/environmental appraisal to accompany the planning application.
- 3.12 Induction training should be given to all personnel on-site and should include NI Water site sensitivities in relation to drinking water catchments and assets, as well as spill response.
- 3.13 Construction and Environmental Management Plans, Pollution Prevention and Contingency Plan and associated documents should include the NI Water Waterline Number **03457 440088** and the local contact details.

4 Monitoring requirements to protect drinking water quality.

- 4.1 During construction, a programme of daily visual inspection of the watercourses, flow conditions (i.e. high, medium, low, or no flow), prevailing weather and any other pertinent observations, will be required to be implemented.
- 4.2 Depending on the vulnerability of the public water supply, NI Water may request that a water sampling programme shall be established and agreed. This should assess the baseline water quality for a minimum of one year prior to any activities commencing on-site where possible, including ground investigations and any felling activities, to allow an accurate understanding of baseline conditions at the site. Water sampling should continue during construction and then post-construction for an agreed period of time. Following completion of of sampling post-construction, this should be reviewed to determine whether this should continue for a further agreed period. The parameters, frequency and sampling locations will also need to be agreed with NI Water. This monitoring will establish if any

decline in water quality can be attributed to the development. It may also be necessary to establish trigger levels to determine when any potential issues should be reported to Ni Water.

Caitriona Downey

Subject: FW: NIEA - DWI - PWS 1231 - Site at Gruig, Co. Antrim (M016161-08)
Attachments: MA021D_Results2011to18012019.pdf

From: PWS <privatewatersupplies@daera-ni.gov.uk>
Sent: 22 January 2019 11:45
To: Caitriona Downey
Cc: DWI <dwi@daera-ni.gov.uk>; PWS <privatewatersupplies@daera-ni.gov.uk>
Subject: NIEA - DWI - PWS 1231 - Site at Gruig, Co. Antrim (M016161-08)

REF: PWS 1231

Good morning Caítriona,

Site at Gruig, Co. Antrim (M016161-08)

The Drinking Water Inspectorate only holds information on private water supplies registered with the Inspectorate under The Private Water Supplies Regulations (Northern Ireland) 2017 and has provided this below.

There is **one** private water supply registered with the inspectorate within **5km** of the site centroid:

FID	ID	GridRefE	GridRefN	Nature/Source	Treatment
115	MA021D	313305	416680	Spring	UV (July 2011 onwards)

Please find associated **drinking** water quality data attached, and note UV disinfection treatment was installed July 2011.

Please note the information provided in this e-mail is accurate in accordance with our latest records only.

Primary production sites, such as dairy farms, are not required to be registered with the Drinking Water Inspectorate. If you require information on these, you should contact the Agri-food Inspection Branch of the Department of Agriculture, Environment and Rural Affairs at Room 1018, Dundonald House, Upper Newtownards Road, Belfast Tel: (028) 9052 4686.

It is important that you note that the Drinking Water Inspectorate does not hold information on private water supplies which supply single dwellings. Details on these may be obtained from the Environmental Health Department of Mid and East Antrim Borough Council Tel: 0300 124 5000 or email: enquiries@midandeastantrim.gov.uk.

You may also wish to contact Northern Ireland Water for information on any Northern Ireland Water sites in the area - Tel. 03457 440088 or Email: waterline@niwater.com.

NIEA Water Management Unit can be contacted regarding other information that you may require: waterinfo@daera-ni.gov.uk.

You should also undertake your own scoping exercise of premises in the vicinity of the development as there may be private water supplies for which records are not held by the above agencies. This should include a survey of the surrounding properties to determine if they have a private water supply. This scoping exercise should include a desk study of relevant OS maps or other relevant information. If it has been assessed, in undertaking this assessment, that private drinking water supplies could be impacted upon by the development then the applicant should propose appropriate steps to mitigate against either a deterioration of drinking water quality or sufficiency of supply. This should include appropriate monitoring and sampling of the supply, if deemed appropriate. Details of any assessment of private water supplies should be made available to the DWI.

The Inspectorate is not in a position to comment on what other information may be relevant to a hydrology assessment.

Kind regards,
Elaine.

Private Water Supplies Team
Drinking Water Inspectorate Northern Ireland
TEL: 028 905 69282

Drinking Water Inspectorate | Northern Ireland Environment Agency
Klondyke Building, Gasworks Business Park, Cromac Avenue, Belfast BT7 2JA

DAERA's Privacy Notice may be accessed at: <https://www.daera-ni.gov.uk/daera-privacy-statement>



From: O'Rourke, Elaine **On Behalf Of** DWI
Sent: 04 January 2019 12:39
To: Caitriona Downey <Caitriona.Downey@mccloyconsulting.com>
Cc: DWI <dwi@daera-ni.gov.uk>
Subject: RE: M016161-08 Gruig Ext. DWI Information Request (EOR: WQ Data requested - Site(s) identified)

Good afternoon Caítriona,

I acknowledge receipt of your information request. We aim to respond to information requests within 15 working days i.e. in this instance no later than 24th January 2019.

I will endeavour to respond sooner,

Kind regards,
Elaine.

Private Water Supplies Team
Drinking Water Inspectorate Northern Ireland
TEL: 028 905 69282

Drinking Water Inspectorate | Northern Ireland Environment Agency
Klondyke Building, Gasworks Business Park, Cromac Avenue, Belfast BT7 2JA

DAERA's Privacy Notice may be accessed at: <https://www.daera-ni.gov.uk/daera-privacy-statement>



Caitriona Downey

Subject: FW: M016161-08 Gruig Ext. WQU615reply

From: DAERA NIEA Water Info <WaterInfo@daera-ni.gov.uk>

Sent: 09 January 2019 09:10

To: Caitriona Downey

Subject: FW: M016161-08 Gruig Ext. WQU615reply

Dear Caitriona Downey

A search of the Groundwater Monitoring Database has found that there are no groundwater monitoring points within the requested 5km search area.

If you require any further water related environmental information about this or any other site please e-mail details of your information request to WaterInfo@daera-ni.gov.uk

Many thanks,

**Data Analysis and Management Team
Water Management Unit**

