

# THORNTON INTERNAL DRAINAGE BOARD

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4<sup>th</sup> March 2010

For the attention of Mr Mike Convery

Dear Sirs,

**Re : Ryedale Gas Project – Thornton-le-Dale**  
**Ref : NY/2010/0065/SCO**

The site of the proposed processing plant lies within the Internal Drainage Board District, the boundary of which is shown on the annexed plan.

Two Internal Drainage Board maintained ditches are in very close proximity of the site, Hurrell Lane Drain, which runs in a southerly direction down the west side of Hurrell Lane from the railway embankment area, and Ings Lane Drain, which runs in an easterly direction on the southern side of Ings Lane. There is also a branch off this drain which extends northwards up to the old railway line.

Ings Lane Drain accepts water from the ditch network which runs down the east side of Hurrell Lane. This ditch extends out of the IDB District to the north of the old railway embankment. The ditch also deals with land drainage water from various fields between the A170 Scarborough Road and the old railway embankment. Most fields in this area have been comprehensively drained during the past 50 years, many of the schemes being grant aided by the Ministry of Agriculture.

The Engineer/Surveyor to the Board, Phil Fisher, was a partner of East Yorkshire Farm Services who have recently merged with Cundalls. As well as administering this Drainage Board and the other two Drainage Boards in the Vale of Pickering until last year, East Yorkshire Farm Services were also involved in the design and supervision of several thousand acres of agricultural drainage in the Vale and surrounding area, with Phil Fisher being their drainage specialist.

As far as the site and pipeline is concerned, especially in the area to the north of the site, it is considered essential that attenuation measures are incorporated in the design so that all surface water, from both the processing plant and the access road, has a discharge into the IDB network not exceeding a rate of 1.4 litres/second/ha, the accepted agricultural discharge rate. These attenuation measures are essential so as to ensure that the Internal Drainage Board ditch network is not overloaded during times of peak flow. The ditch network already operates at design capacity.

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It is also considered essential during the construction phase that measures are incorporated to ensure that no pollution is able to enter the ditch network. Ings Lane Drain and Hurrell Lane Drain eventually discharge into the River Derwent approximately 4km south of the site area.

Consent for any drain outlets or structures which may affect the Board maintained ditch network must be obtained from the IDB. A fee is payable for each outlet or structure.

It is recommended that where the pipeline crosses a ditch, it should be covered by a protective layer of concrete. There should be a minimum of 0.90m between the top of the protective concrete and the hard bed of the watercourse.

Remedial drainage works will be essential on the area of land between the A170 and the proposed processing site. On the north side of the A170, the texture and structure of the land is considerably different with the land area up to the gas well site at Givendale (above Ebberston) being predominantly free draining. A certain amount of remedial drainage may be necessary in the land area immediately to the north of the A170.

I trust the above comments, which have been obtained from our Surveyor/Engineer, Phil Fisher, and the previous Clerk to the Board, Eric Bowles, are of assistance to you. Should any points require clarification, please do not hesitate to contact me.

Yours faithfully,



Enc.