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## TECHNICAL NOTE

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**Project** EdgeConnex Ireland Limited

**Subject** Additional Information Response  
Item no. 7 & 11

**Author** Liam Bruen

**Date** 12 July 2021

**Ref.** LB/20/11901TN01

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### **Further Information Request Item no. 7**

*The applicant is requested to investigate and consider the impact of a potential Section 22 landfill identified on the site.*

### **Further Information Response**

In response to a Request for Information (RFI), AWN Consulting Ltd (AWN) made contact with Joseph Bockarie from the South Dublin County Council (SDCC) to cross reference their records of Illegal dumping/Historic Landfills within the proposed development site and the surrounding areas.

Joseph Bockarie responded Monday, June 14, and stated that according to SDCC records, the nearest illegal landfill in this area is Nangor Road Ballybane. This is located at the Grange Castle Motor Company / Boland's Car Centre (Grange castle) c. 1.1km southeast of the proposed development.

See Appendix A for the full email correspondence.

To the applicant's knowledge there is no a Section 22 landfill on the site.

### **Further Information Request Item no. 11**

*There potentially is a series of drainage ditches/watercourses traversing the site. The applicant is requested to submit a drawing showing all existing watercourses/drainage ditches which traverse the site, and which run around the perimeter of the site. The applicant shall clarify what these drainage systems currently serve, what condition they are in and how they will be modified as part of this development.*

### **Further Information Response**

#### **Proposed Development Land site walk and Drainage Assessment.**

There are no mapped surface water courses on or bordering the site as seen in Figure 1 below. below taken from the EIAR Hydrology chapter submitted to as part of the EIA.

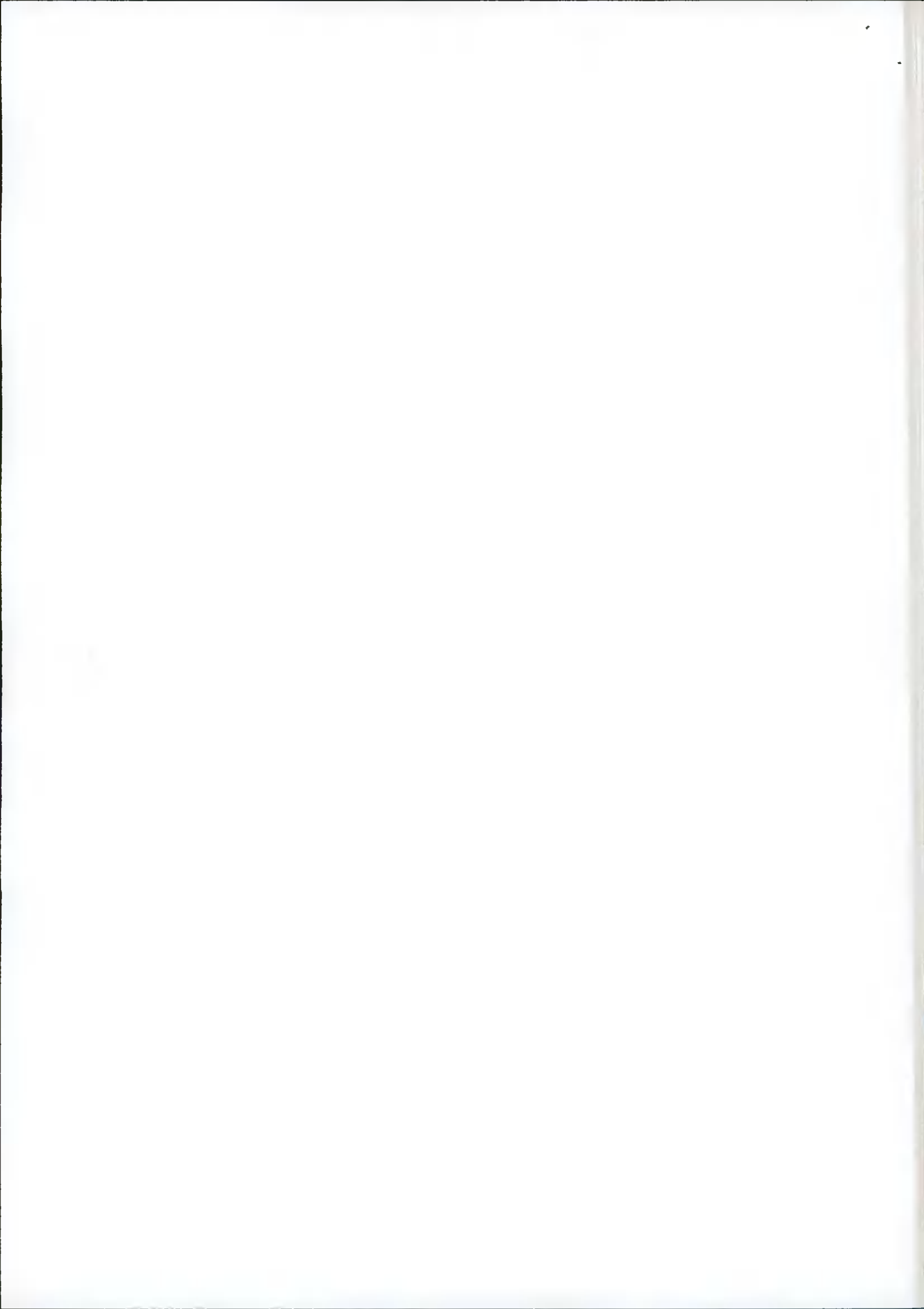




Figure 1 Hydrology (Source: EIA Chapter 6 Hydrology (AWN, 2021))

Sections 8.18 and 8.19 of the EIA (Environmental Impact Assessment Report) outlines the external and internal site drainage.

8.18 The existing site is greenfield development where surface water flows via overland drainage ditches and a surface water drain into the Lucan Stream and Griffeen River. There are several drainage ditches that line field boundary hedgerows throughout the development site.

8.19 The Dublin Bay is located c. 21km to the east (i.e., downstream) of the site. The site would have an indirect hydrological connection, through the Lucan Stream, the Griffeen River and the River Liffey, with the following Natura European Sites:

- South Dublin Bay SAC.
- South Dublin Bay and River Tolka Estuary SPA,
- North Dublin Bay SAC; and
- North Bull Island SPA

As part of this RFI Response a further site visit was undertaken by Liam Bruen of Awn on the 25<sup>th</sup> of June 2021. The site visit was undertaken to confirm the internal drainage networks on site and to clarify what these drainage systems currently serve and what condition they were in.

The site visit was undertaken during dry conditions with no presence of surface water in most of the internal ditches. Flow direction was assumed based on the local topography, the interconnections between the ditches and any visible surface water flow where present.



Summary details of the Field Drains are outlined in Table 1.



Figure 2 Drainage Layout

Field Drain	Flow direction	Condition
1	No apparent flow direction.	Land ditch marking field boundary overgrown with vegetation, shallow banks. Located to the west and South the proposed development site boundary. Overgrown vegetation, no outfall within the proposed development site boundary.
2	No flow direction visible.	Land ditch marking field boundary overgrown with vegetation, shallow banks. No water present at time of visit. Ditch is not connected to any other features, assumed discharge to ground.
3	Contour suggests a southern flow direction and connection to Field drain 6.	Land ditch marking field boundary overgrown with vegetation, shallow banks. No water present at time of visit.
4	Contour suggests a southern flow direction and connection to Field drain 6.	Land ditch marking field boundary overgrown with vegetation, shallow banks. No water present at time of visit.
5	Flow is directed south towards Field Drain 6.	Stagnant water visible. Located alongside an old access to dilapidated buildings.
6	North and North-East to Griffeen River.	No water present in upstream of Culvert 1, with some flowing water visible before and after Culvert





Field Drain	Flow direction	Condition
		2; at very low flow rate. Generally overgrown with vegetation.
7	East to Griffeen River.	No water present at time of visit. Shallow dish drain for stormwater collection for dilapidated buildings.
8	East to Griffeen River.	Steep sites, Flowing water visible; very low flow rate.

**Table 1** *Field Drains*

Overall internal ditches shown in Figure 2 are predominantly artificial ephemeral drainage ditches, most of which were dry during the time of the visit so flow direction is assumed. These are manmade ditches to drain the fields and generally marking the field boundaries.

Ditch 1 is not located within the site on the western boundary and is located on the boundary line along the south. It is likely that the ditches (2, 3, 4, 5) primarily drain to ground, or during extended periods of heavy rainfall drain into Field Ditch 6 which flows through the centre of the site and adjacent to the R120 as shown on Figure 2. Ditch 7 connects directly with Culvert 4.

These field drains (6 & 7) are hydraulically linked through a series of culverts to drainage Ditch 8 and ultimately the Griffeen River. The Griffeen combines with drainage Ditch 8 at Culvert 4 before flowing north and converging with the River Liffey which then flows east to the Liffey Estuary c. 15 km downstream of the site.

The RFI Response prepared by Pinnacle Consulting Engineers addresses how these ditches will be modified as part of the Proposed Development.





Appendix

**From:** Joseph Bockarie <[jbockarie@SDUBLINCOCO.ie](mailto:jbockarie@SDUBLINCOCO.ie)>  
**Sent:** Monday, June 14, 2021 11:48:23 AM  
**To:** Liam Bruen <[Liam.Bruen@awnconsulting.com](mailto:Liam.Bruen@awnconsulting.com)>  
**Subject:** FW: Unlawful landfill SD19A/0042

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Liam,

According to our records, the nearest illegal landfill in this area is Nangor Road Ballybane . We carried out a walkover survey in February 2010 during the time the Council was carrying out the identification of Illegal landfills in the county. We noted in our survey the following remarks: the site is very unsightly with waste deposited around its boundaries. It seems as though that dumping is still taking place here. Burning of waste is also taking place at this site. The land was originally wet and marshy lowland that was filled with soil to raise its level above the surrounding ground level. The potential sources of contamination are from the different types of waste such as tyres, metals, textiles and commercial waste which could be seen on the ridge acting as a fence. The place is behind a Motor Garage. This is all the information we have. There has been no intrusive investigation carried out on the site as per EPA code of practice for environmental Risk Assessment of illegal landfills. Attached are some photographs taken during our walkover survey.

Thanks

Joseph

**From:** Liam Bruen <[Liam.Bruen@awnconsulting.com](mailto:Liam.Bruen@awnconsulting.com)>  
**Sent:** Wednesday 9 June 2021 16:37  
**To:** Joseph Bockarie <[jbockarie@SDUBLINCOCO.ie](mailto:jbockarie@SDUBLINCOCO.ie)>  
**Subject:** Unlawful landfill SD19A/0042

**CAUTION:** [EXTERNAL EMAIL] Do not click links or open attachments unless you recognise the sender and know the content is safe.

Hi Joseph,

Have some detailed plans for the proposed site.

It was an RFI request, SDCC wanted to know how we are managing the site if there was a Historic/ illegal landfill onsite.

All we need to find out is, is there a record of one there?

Liam





