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13th September 2018

Irish Aviation Authority
Pieter Van Velzen
The Times Building
11-12 D'Olier Street
Dublin 2

Project Name: Greater Dublin Drainage Project
Project Number: 32102902

Notice of Direct Planning Application to An Bord Pleanála in respect of a Strategic Infrastructure Development (A Proposed Wastewater Treatment Plant, Orbital Sewer, Outfall Pipeline, Sludge Hub Storage Centre and Regional Biosolids Storage Facility) 'Greater Dublin Drainage Project' in County Fingal and Dublin City.

Dear Sir/ Madam,

In accordance with Section 37E of the Planning and Development Act 2000, as amended, Irish Water applied for permission to An Bord Pleanála on the 20th June 2018 for the 'Greater Dublin Drainage Project'. The proposed project will consist of the development of a new wastewater treatment plant, sludge hub centre, orbital sewer, outfall pipeline and regional biosolids storage facility. The proposed project will be located in County Fingal with a 60m section of pipeline in Dublin City, and is approximately 25km long and consists of the principal elements outlined in **Attachment 1**.

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- It has come to the attention of Irish Water that in relation to the documents which were lodged for public inspection with An Bord Pleanála, Fingal County Council at their Offices in Swords, Co. Dublin and Blanchardstown, Dublin 15 and the Offices of Dublin City Council, Wood Quay, Dublin 8, and available on the website www.gddapplication.ie, some documentation forming

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Registered in Ireland No 111945
Registered Office: Merrion House, Merrion Road, Dublin 4, 216410

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Yours faithfully

Ciaran O'Keeffe

GDD Project Manager

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Attachment 1 – Proposed Project Elements

Proposed Project Element	Outline Description of Proposed Project Element
<p>Proposed Wastewater Treatment Plant (WwTP)</p>	<ul style="list-style-type: none"> • Regional WwTP to be located on a 29.8-hectare (ha) site in the townland of Clonshagh (Clonshaugh) in Fingal. • 500,000 Population Equivalent (PE) wastewater treatment capacity. • Maximum building height of 18m. • Sludge Hub Centre (SHC) to be co-located on the same site as the WwTP with a sludge handling and treatment capacity of 18,500 tonnes of dry solids (TDS)/annum. • Utilisation of bio-gas produced during the sludge treatment process will be utilised as an energy source for the WwTP. • 6no. odour control units with discharge flues (maximum discharge flue height of 24m) • Access road from the R139 Road, approximately 500m to the southern boundary of the site. • Egress road, approximately 230m from the western boundary of the site to the Clonshaugh Road. • Internal circulation roads and associated hard standing • connection to the local electricity supply grid at the R139, • connection to the local gas supply network at the Clonshaugh Road • connection to the local water supply network at the Clonshaugh Road • landscaping and ancillary works • A temporary construction compound located within the site boundary. <p>The WwTP will require a wastewater discharge authorisation licence in accordance with the requirements of the Waste Water Discharge (Authorisation) Regulations 2007, as amended.</p>
<p>Proposed Abbotstown Pumping Station</p>	<ul style="list-style-type: none"> • Pumping station to be located on a 0.4ha site in the grounds of the National Sports Campus (NSC) at Abbotstown. • Abbotstown pumping station will consist of a single 1-storey building above basement with a ground level floor area of approximately 305m² and maximum height of 10m and a below ground basement 17m in depth with floor area of approximately 524m² incorporating the wet/dry wells. • access from the internal road network of the National Sports Campus at Abbotstown,

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	<ul style="list-style-type: none"> • associated hard standing • connection to local electricity supply grid at the National Sports Campus, Abbotstown, • connection to local water supply network at the National Sports Campus, Abbotstown • landscaping, and other ancillary works • Temporary construction compound adjacent to the Abbotstown pumping station site.
Proposed Orbital Sewer Route	<ul style="list-style-type: none"> • An underground orbital sewer, the route of which will intercept the existing sewer at Blanchardstown and divert it from this point to the WwTP at Clonshagh. • 13.7km in length; (5.2km of a 1.4m diameter rising main and 8.5km of a 1.8m diameter gravity sewer), constructed within the boundary of a temporarily acquired construction corridor. • Manholes / service shafts / vents along the route. • Odour Control Unit (OCU), located adjacent to the R122 at the rising main/gravity sewer interface, with 5m high discharge flue • Temporary construction compounds within the proposed construction corridor, at Abbotstown, Cappoge, east of Silloge, Dardistown and west of Collinstown Cross.
Proposed Diversion of the North Fringe Sewer (NFS)	<ul style="list-style-type: none"> • The NFS diversion sewer will be constructed from the junction of the access road to the WwTP with the R139 Road (Dublin City Council administrative area). • 600m length gravity sewer; 1.5m in diameter.
Proposed Outfall Pipeline Route (Land Based Section)	<ul style="list-style-type: none"> • To be constructed from the northern boundary of the WwTP to the R106 Coast Road at Maynetown (townland). It will comprise a 5.4km pressurised gravity sewer, 1.8m in diameter, and include manholes / service shafts / vents along the route. • Temporary construction compounds (east of Malahide Road and east of Saintdoolaghs) to be located within the proposed construction corridor.
Proposed Outfall Pipeline Route (Marine Section)	<ul style="list-style-type: none"> • The Outfall pipeline route (marine section) is to be constructed from the R106 Coast Road (at Maynetown), and will terminate at a discharge location approximately 1km north-east of Ireland's Eye (island) • It will comprise a 5.9km pressurised gravity tunnel/ subsea (dredged) pipeline, 2,000mm in diameter.

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<p>Proposed Regional Biosolids Storage Facility (RBSF)</p>	<ul style="list-style-type: none"> • Located on an 11ha site at Newtown, Dublin 11. • Demolition of existing single storey structures on site comprising of a security kiosk (approx. 22 sq.m gfa), the weighbridge kiosk (approx. 19 sq.m gfa), an ESB Sub-Station (approx. 16 sq.m gfa) and an administration building (approx. 85 sq.m gfa), together with the partial removal of existing internal roads and partial removal / diversion of existing drainage infrastructure as appropriate to accommodate the development. • 2no. biosolids storage buildings, each approximately 50m wide, 105m long and 15m in height, including solar panels on the roof of one building. These buildings have a combined capacity to store up to 48,000 cubic metres of biosolids waste at any one time. • 4no. odour control units, each with 18.2m high discharge flues • Mechanical and electrical control building (approx. 35 sq.m gfa, 4 m high). • Provision of a single storey site administration building for office, welfare facilities and meeting rooms (approx. 130 sq.m gfa) and associated staff car parking. • Use of the existing vehicular access off the R135, including provision of new 2.7m high entrance gates to serve the Regional Biosolids Storage Facility. • All ancillary landscape and site development works, including: Provision of 2no. new weighbridge facilities (1no. weighbridge on entry and exit of the Regional Biosolids Storage Facility). • Provision of new ESB Sub-Station (approx. 40 sq.m gfa). • Landscaping and boundary treatments, including new 2.7m high boundary to North Road/R135. • Provision of fire protection holding tank (approx. 6.7m high). • Provision of a HGV cleaning and set down area. • Formation of new footpath and landscaped verge to R135 along site frontage. • Provision of drainage, water, external lighting, and other utilities.

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Caoimhe Boland
Commission for Railway Regulation
Temple House
Blackrock
Co. Dublin
A94 Y5W5

Project Name: Greater Dublin Drainage Project
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Don Cunningham
Iarnród Éireann
Iarnród Éireann Headquarters
Connolly Station
Amiens Street
Dublin 1
D01 V6V6

Project Name: Greater Dublin Drainage Project
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Attachment 1 – Proposed Project Elements

Proposed Project Element	Outline Description of Proposed Project Element
<p>Proposed Wastewater Treatment Plant (WwTP)</p>	<ul style="list-style-type: none"> • Regional WwTP to be located on a 29.8-hectare (ha) site in the townland of Clonshagh (Clonshaugh) in Fingal. • 500,000 Population Equivalent (PE) wastewater treatment capacity. • Maximum building height of 18m. • Sludge Hub Centre (SHC) to be co-located on the same site as the WwTP with a sludge handling and treatment capacity of 18,500 tonnes of dry solids (TDS)/annum. • Utilisation of bio-gas produced during the sludge treatment process will be utilised as an energy source for the WwTP. • 6no. odour control units with discharge flues (maximum discharge flue height of 24m) • Access road from the R139 Road, approximately 500m to the southern boundary of the site. • Egress road, approximately 230m from the western boundary of the site to the Clonshaugh Road. • Internal circulation roads and associated hard standing • connection to the local electricity supply grid at the R139, • connection to the local gas supply network at the Clonshaugh Road • connection to the local water supply network at the Clonshaugh Road • landscaping and ancillary works • A temporary construction compound located within the site boundary. <p>The WwTP will require a wastewater discharge authorisation licence in accordance with the requirements of the Waste Water Discharge (Authorisation) Regulations 2007, as amended.</p>
<p>Proposed Abbotstown Pumping Station</p>	<ul style="list-style-type: none"> • Pumping station to be located on a 0.4ha site in the grounds of the National Sports Campus (NSC) at Abbotstown. • Abbotstown pumping station will consist of a single 1-storey building above basement with a ground level floor area of approximately 305m² and maximum height of 10m and a below ground basement 17m in depth with floor area of approximately 524m² incorporating the wet/dry wells. • access from the internal road network of the National Sports Campus at Abbotstown,

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	<ul style="list-style-type: none"> • associated hard standing • connection to local electricity supply grid at the National Sports Campus, Abbotstown, • connection to local water supply network at the National Sports Campus, Abbotstown • landscaping, and other ancillary works • Temporary construction compound adjacent to the Abbotstown pumping station site.
Proposed Orbital Sewer Route	<ul style="list-style-type: none"> • An underground orbital sewer, the route of which will intercept the existing sewer at Blanchardstown and divert it from this point to the WwTP at Clonshagh. • 13.7km in length; (5.2km of a 1.4m diameter rising main and 8.5km of a 1.8m diameter gravity sewer), constructed within the boundary of a temporarily acquired construction corridor. • Manholes / service shafts / vents along the route. • Odour Control Unit (OCU), located adjacent to the R122 at the rising main/gravity sewer interface, with 5m high discharge flue • Temporary construction compounds within the proposed construction corridor, at Abbotstown, Cappoge, east of Silloge, Dardistown and west of Collinstown Cross.
Proposed Diversion of the North Fringe Sewer (NFS)	<ul style="list-style-type: none"> • The NFS diversion sewer will be constructed from the junction of the access road to the WwTP with the R139 Road (Dublin City Council administrative area). • 600m length gravity sewer; 1.5m in diameter.
Proposed Outfall Pipeline Route (Land Based Section)	<ul style="list-style-type: none"> • To be constructed from the northern boundary of the WwTP to the R106 Coast Road at Maynetown (townland). It will comprise a 5.4km pressurised gravity sewer, 1.8m in diameter, and include manholes / service shafts / vents along the route. • Temporary construction compounds (east of Malahide Road and east of Saintdoolaghs) to be located within the proposed construction corridor.
Proposed Outfall Pipeline Route (Marine Section)	<ul style="list-style-type: none"> • The Outfall pipeline route (marine section) is to be constructed from the R106 Coast Road (at Maynetown), and will terminate at a discharge location approximately 1km north-east of Ireland's Eye (island) • It will comprise a 5.9km pressurised gravity tunnel/ subsea (dredged) pipeline, 2,000mm in diameter.

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	<ul style="list-style-type: none"> • A Multiport marine diffuser is to be located on the final section of the outfall pipeline (marine section) • Temporary construction compounds (west and east of Baldoyle Bay) to be located within the proposed construction corridor.
<p>Proposed Regional Biosolids Storage Facility (RBSF)</p>	<ul style="list-style-type: none"> • Located on an 11ha site at Newtown, Dublin 11. • Demolition of existing single storey structures on site comprising of a security kiosk (approx. 22 sq.m gfa), the weighbridge kiosk (approx. 19 sq.m gfa), an ESB Sub-Station (approx. 16 sq.m gfa) and an administration building (approx. 85 sq.m gfa), together with the partial removal of existing internal roads and partial removal / diversion of existing drainage infrastructure as appropriate to accommodate the development. • 2no. biosolids storage buildings, each approximately 50m wide, 105m long and 15m in height, including solar panels on the roof of one building. These buildings have a combined capacity to store up to 48,000 cubic metres of biosolids waste at any one time. • 4no. odour control units, each with 18.2m high discharge flues • Mechanical and electrical control building (approx. 35 sq.m gfa, 4 m high). • Provision of a single storey site administration building for office, welfare facilities and meeting rooms (approx. 130 sq.m gfa) and associated staff car parking. • Use of the existing vehicular access off the R135, including provision of new 2.7m high entrance gates to serve the Regional Biosolids Storage Facility. • All ancillary landscape and site development works, including: Provision of 2no. new weighbridge facilities (1no. weighbridge on entry and exit of the Regional Biosolids Storage Facility). • Provision of new ESB Sub-Station (approx. 40 sq.m gfa). • Landscaping and boundary treatments, including new 2.7m high boundary to North Road/R135. • Provision of fire protection holding tank (approx. 6.7m high). • Provision of a HGV cleaning and set down area. • Formation of new footpath and landscaped verge to R135 along site frontage. • Provision of drainage, water, external lighting, and other utilities.

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	<ul style="list-style-type: none">• Diversion of 450mm surface water pipe.• 1no. signage structure, 5.2m in height erected on posts accommodating 2no. signage zones: 2.4m x 1.7 and 2.4m x 1.2m, located at the site entrance. <p>The Regional Biosolids Storage Facility will require a Certificate of Registration for the activity of storing biosolids (treated wastewater sludge)</p>

