Pre-connection enquiry form

Large industrial and commercial developments, mixed use developments, housing developments, business developments.

This form is to be filled out by applicants enquiring about the feasibility of a water and/or wastewater connection to Irish Water infrastructure. If completing this form by hand, please use BLOCK CAPITALS and black ink.

Please refer to the **Guide to completing the pre-connection enquiry form** on page 12 of this document when completing the form.

Section A | Applicant details

1 WPRN number (where available): 9728736 (Running Track Main Feeding Current Residences)

3265695 (Main Connection at Front Entrance)

2 Applicant details:

Registered company name (if applicable): University College Dublin Estate Services

Trading name (if applicable):

Company registration number (if applicable):

If you are not a registered company/business, please provide the applicant's name:

Contact name: Enda Conaty

Postal address: UCD Estate Services, Belfield House, Belfield, Dublin 4

Eircode: D04V1W8

Telephone: 0171611111

Mobile:

Email: enda.conaty@ucd.ie

3 Agent details (if applicable):

Contact name: Brian Mahony

Company name (if applicable): Barrett Mahony

Postal address: Barrett Mahony Consulting Engineers, Sandwith House, 52-54 Lwr Sandwith St. Dublin 2

Eircode: D02WR26

Telephone: 0167732 00

Email: brian.mahony@bmce.ie

4 **Please indicate whether it is the applicant or agent who should receive future correspondence in relation to the enquiry:**

Applicant ☐ Agent ☑

Section B | Site details

5 **Site address:** Belfield Campus, Belfied,

Dublin 4, D04V1W8

6 **Irish Grid co-ordinates of site:** E(X) 718658 N(Y) 729536

Eg. co-ordinates of GPO, O'Connell St., Dublin: E(X) 315,878 N(Y) 234,619

7 **Local Authority:**

Local Authority that granted planning permission (if applicable):

N/A

8 **Has full planning permission been granted?** Yes ☐ No ☑

If 'Yes', please provide the current or previous planning reference number:

N/A

9 **Previous use of this site (if applicable):** Car Park/Pitches

10 **Date that previous development was last occupied (if applicable):** ☐☐/☐☐/☐☐☐☐

11 **Are there poor ground conditions on site?** Yes ☐ No ☑

If 'Yes', please include site investigation report and a detailed site-specific report on the approach being taken to deal with ground conditions specifically with regard to pipe support and trenching.

12 **Are there potential contaminated land issues?** Yes ☐ No ☑

If 'Yes', please include a detailed site-specific report on the approach being taken to deal with contaminated land and the measures being taken to mitigate the impact on infrastructure.

13 **Is the development compliant with the local area development plan?** Yes ☑ No ☐

Section C | Water connection and demand details

14 **Is there an existing connection to public water mains at the site?** Yes ☑ No ☐

15 **Is this enquiry for an additional connection to the one already installed?** Yes ☑ No ☐

16 **Is this enquiry to increase the size of an existing water connection?** Yes ☐ No ☑

17 **Is this enquiry for a new water connection?** Yes ☐ No ☑

18 **Approximate date water connection is required:** 1 ☐ / 9 ☐ / 2 0 1 7

19 **Please indicate pre-development water demand (if applicable):**

Pre-development peak hour water demand	10.44*	**l/s**
Pre-development average hour water demand	1.74*	**l/s**

Pre-development refers to brownfield sites only. Please include calculations on the attached sheet provided.

20 **Please indicate the domestic water demand (housing developments only):**

Post-development peak hour water demand	31.32*	**l/s**
Post-development average hour water demand	5.22*	**l/s**

Please include calculations on the attached sheet provided.
* Rainwater Harvesting will be provided for residences to provide flush water. The figures stated above are conservative and assume no contribution from rainwater harvesting tanks

21 **Please indicate the business water demand (shops, offices, schools, hotels, restaurants, etc.):**

Post-development peak hour water demand	0	**l/s**
Post-development average hour water demand	0	**l/s**

Please include calculations on the attached sheet provided. Where there will be a daily/weekly/seasonal variation in the water demand profile, please provide all such details.

22 **Please indicate the industrial water demand (industry-specific water requirements):**

Post-development peak hour water demand	0	**l/s**
Post-development average hour water demand	0	**l/s**

Please include calculations on the attached sheet provided. Where there will be a daily/weekly/seasonal variation in the water demand profile, please provide all such details.

23 **What is the existing ground level at the property boundary at connection point (if known) above Malin Head Ordnance Datum?**

2 8 . 5 0 m

24 **What is the highest finished floor level of the proposed development above Malin Head Ordnance Datum?**

5 9 . 8 8 m

25 **Is on-site water storage being provided?** Yes ☑ No ☐

Please include calculations on the attached sheet provided.

26 **Are there fire flow requirements?** Yes ☐ No ☑

Additional fire flow requirements over and above those identified in Q20, Q21 and Q22 above		**l/s**

Please include calculations on the attached sheet provided, and include confirmation of requirements from the Fire Authority.

27 **Do you propose to supplement your potable water supply from other sources?** Yes ☐ No ☑

If 'Yes', please indicate how you propose to supplement your potable water supply from other sources (see **Guide to completing the application form** on page 12 of this document for further details):

Section D | Wastewater connection and discharge details

28 **Is there an existing connection to a public sewer at the site?** Yes ☑ No ☐

29 **Is this enquiry for an additional connection to one already installed?** Yes ☐ No ☑

30 **Is this enquiry to increase the size of an existing connection?** Yes ☐ No ☑

31 **Is this enquiry for a new wastewater connection?** Yes ☐ No ☑

32 **Approximate date that wastewater connection is required:** 1 / 9 / 2017

33 **Please indicate pre-development wastewater discharge (if applicable):**

Pre-development peak discharge	10.44	**l/s**
Pre-development average discharge	1.74	**l/s**

Pre-development refers to brownfield sites only. Please include calculations on the attached sheet provided.

34 **Please indicate the domestic wastewater hydraulic load (housing developments only):**

Post-development peak discharge	31.32	**l/s**
Post-development average discharge	5.22	**l/s**

Please include calculations on the attached sheet provided.

35 **Please indicate the commercial wastewater hydraulic load (shops, offices, schools, hotels, restaurants, etc.):**

Post-development peak discharge	0	**l/s**
Post-development average discharge	0	**l/s**

Please include calculations on the attached sheet provided.

36 Please indicate the industrial wastewater hydraulic load (industry-specific discharge requirements):

Post-development peak discharge	0	**l/s**
Post-development average discharge	0	**l/s**

Please include calculations on the attached sheet provided.

37 Wastewater organic load: N/A - (Standard Residential Loadings)

Characteristic	**Max concentration (mg/l)**	**Average concentration (mg/l)**	**Maximum daily load (kg/day)**
Biochemical oxygen demand (BOD)			
Chemical oxygen demand (COD)			
Suspended solids (SS)			
Total nitrogen (N)			
Total phosphorus (P)			
Other			

Temperature range	
pH range	

38 Storm water run-off will only be accepted from brownfield sites that already have a storm/surface water connection to a combined sewer. In the case of such brownfield sites, please indicate if the development intends discharging surface water to the combined wastewater collection system:

Yes ☐ No ☑

If 'Yes', please give reason for discharge and comment on adequacy of SUDS/attenuation measures proposed.

39 Do you propose to pump the wastewater? Yes ☐ No ☑

If 'Yes', please include justification for your pumped solution with this application.

40 What is the existing ground level at the property boundary at connection point (if known) above Malin Head Ordnance Datum?

16.00 m

41 What is the lowest finished floor level on site above Malin Head Ordnance Datum? 26.98 m

Section E | Development details

42 Please outline the domestic and/or industry/business use proposed:

Property type	Total number of units for this application
Domestic	3,006
Office	-
Residential care home	-
Hotel	-
Factory	-
School	-
Institution	-
Retail unit	-
Industrial unit	-
Other (please specify)	-

43 Approximate start date of proposed development: 1 / 9 / 2017

44 Is the development multi-phased? Yes ☑ No ☐

If 'Yes', application must include a master-plan identifying the development phases and the current phase number.

If 'Yes', please provide details of variations in water demand volumes and wastewater discharge loads due to phasing requirements.

Please see attached Phasing Diagram and Calculations Section showing demand variations as each stage comes onstream.

In total there will be three phases constructed over an 8 year period. Approximate dates as follows:

Phase 1 to become live at end August 2021.
Phase 2 to become live at end August 2023.
Phase 3 to become live at end August 2025.

Section F | Supporting documentation

Please provide the following additional information:

> Site location map: A site location map to a scale of 1:1000, which clearly identifies the land or structure to which the enquiry relates. The map shall include the following details:

a) The scale shall be clearly indicated on the map.

b) The boundaries shall be delineated in red.

c) The site co-ordinates shall be marked on the site location map.

> Details of planning and development exemptions (if applicable).

> Calculations (calculation sheets provided below).

> Site layout map to a scale of 1:500 showing layout of proposed development, water network and wastewater network layouts, additional water/wastewater infrastructure if proposed, connection points to Irish Water infrastructure (if known).

> Any other information that might help Irish Water assess this pre-connection enquiry.

Section G | Declaration

I/We hereby make this application to Irish Water for a water and/or wastewater connection as detailed on this form.

I/We understand that any alterations made to this application must be declared to Irish Water.

The details that I/we have given with this application are accurate.

I/We have enclosed all the necessary supporting documentation.

Signature: Date: ☐☐ / ☐☐ / ☐☐☐☐

Your full name (in BLOCK CAPITALS):

B	R	I	A	N		M	A	H	O	N	Y																		

Irish Water will carry out a formal assessment based on the information provided on this form.
Any future connection offer made by Irish Water will be based on the information that has been provided here.

Please submit the completed form to **newconnections@water.ie** or alternatively, post to:

Irish Water
PO Box 860
South City Delivery Office
Cork City

For office use only:

Input customer number: ☐☐☐☐☐☐☐☐☐☐

Calculations

Water demand

- TYPICAL RESIDENTIAL DEMAND → ALLOW 150 L/head/day
- DAY STUDENT WATER DEMAND → 50 L/head/day average
- NO ADDITIONAL STUDENTS ATTENDING COLLEGE (I.E. EXISTING DAY STUDENTS CHANGING TO RESIDENTIAL STUDENTS.)

∴ EXISTING DEMAND $= \frac{3006 \times 50}{24 \times 60^2} = 1.74$ L/s

PEAK $= 6 \times 1.74 = 10.44$ L/s

POST-DEVELOPMENT DEMAND $= \frac{3006 \times 150}{24 \times 60^2} = 5.22$ L/s

PEAK $= 6 \times 5.22 = 31.32$ L/s

PHASING:

- PHASE 1 : 924 beds → 924 beds = POST-PHASE 1 DEMAND = 1.60 L/s or 9.63 L/s PEAK
- PHASE 2 : 1254 beds → 2,178 beds = POST-PHASE 2 DEMAND = 3.78 L/s or 22.69 L/s PEAK
- PHASE 3 : 828 beds / 3006 beds → 3,006 beds = POST-PHASE 3 DEMAND = 5.22 L/s or 31.32 L/s PEAK

On-site storage

- ON SITE WATER STORAGE AVAILABLE FROM BELFIELD WATER TOWER & 24hr STORAGE LOCAL TO EACH RESIDENTIAL BLOCK
- NO ON-SITE WASTEWATER STORAGE.

Fire flow requirements

- NO FIRE FLOW REQUIREMENTS KNOWN AT PRESENT.

- AS PER WATER DEMAND CALCULATIONS.

- RAW DOMESTIC WASTEWATER INFLUENT CHARACTERISTICS AS PER I.S. EN 12566-3:2005.

Flow balancing and pumping

N/A