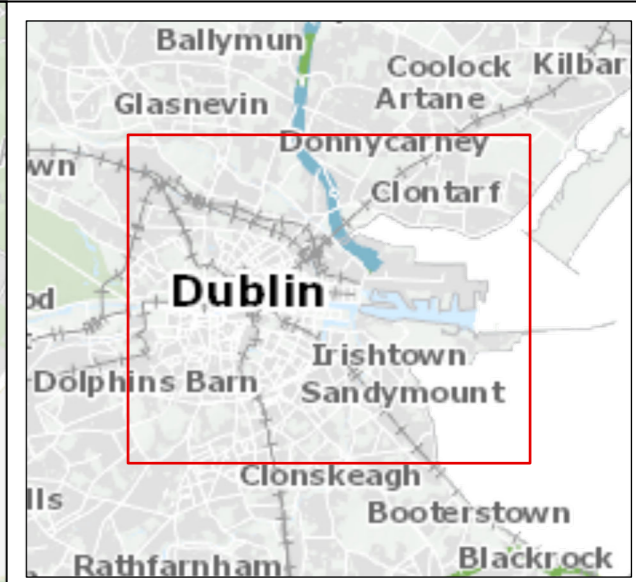
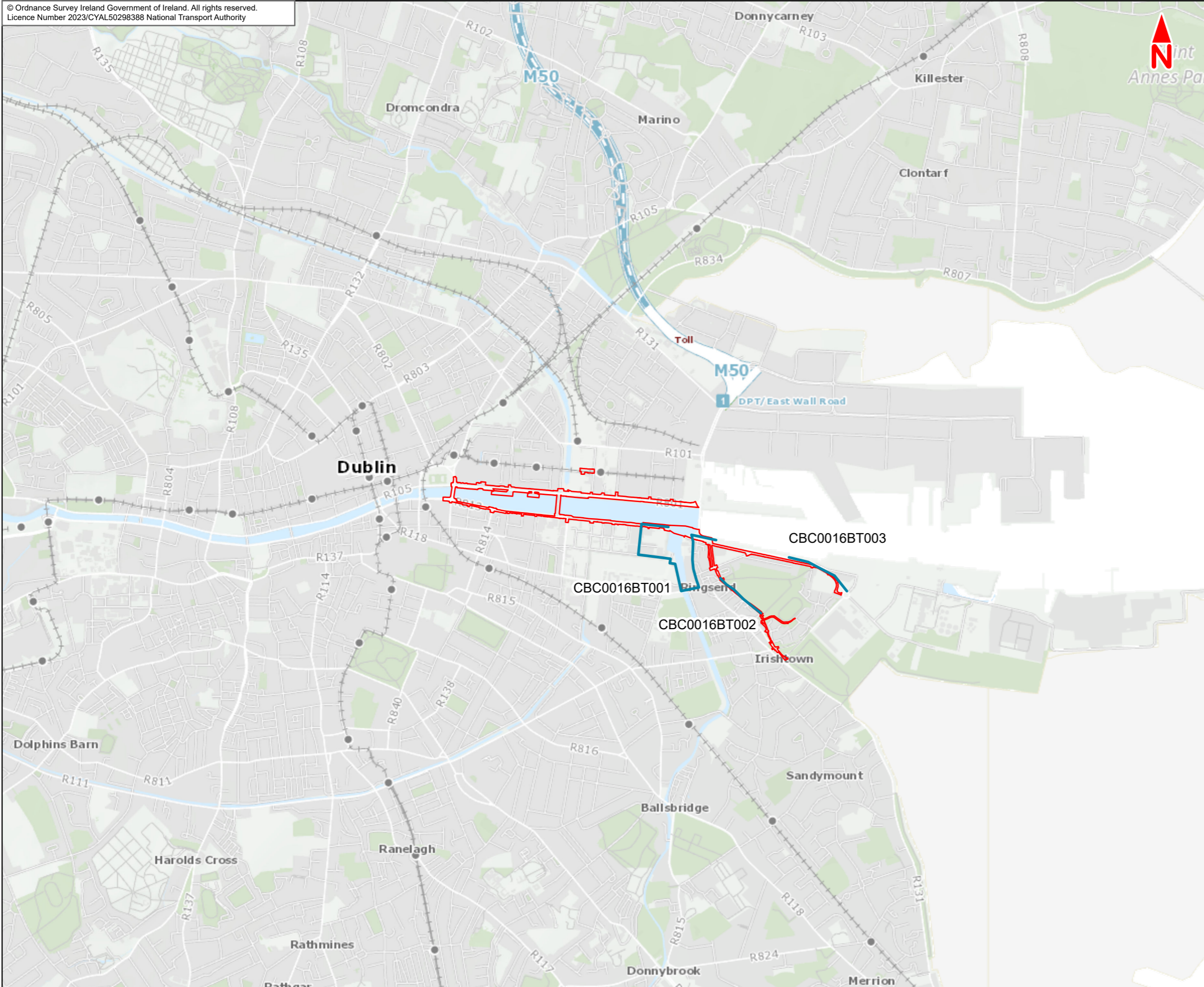


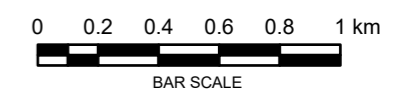


**12.1.1**  
Ecological Study Areas:  
Bat Activity Transect Routes



- Legend :**
- Ringsend to City Centre Core Bus Corridor Scheme
  - Bat Survey Transects


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Client  
  
 Udarás Náisiúnta Iompair  
 National Transport Authority

Consultant  


Programme Title <b>BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS</b>			
Drawing Title Ringsend to City Centre Core Bus Corridor Scheme Figure 12.1.1 Ecological Study Areas: Bat Activity Transect Routes			
Drawing File Name BCIDE-JAC-ENV BD-0016_XX_00-DR-GG-0101	Sheet Number 1 of 1	Status A	Rev M01

Date 04/04/2023	Scale @ A3 1:25 000	Drawn EK	Checked PW	Approved DK
Project Code BCIDE	Originator Code JAC	QMS Code		



**12.1.2**  
Ecological Study Areas:  
Breeding Bird Survey Sites



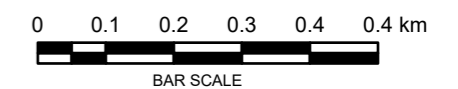
**Legend :**

- Ringsend to City Centre Core Bus Corridor Scheme

**Breeding Bird Vantage Points**

- Black Gull
- Common Tern

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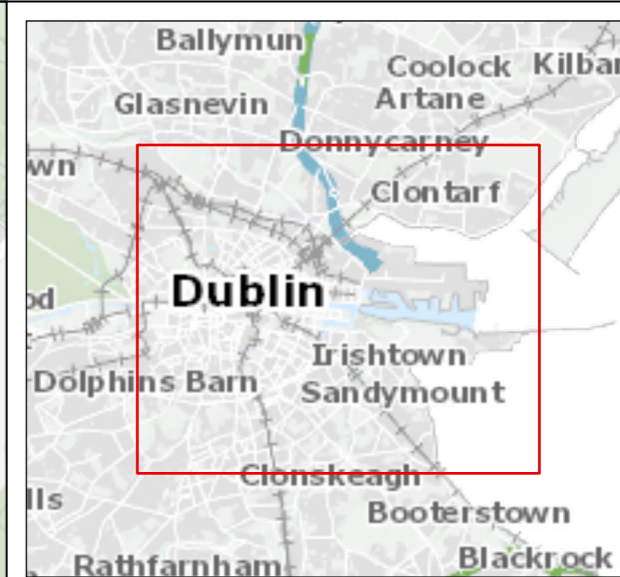
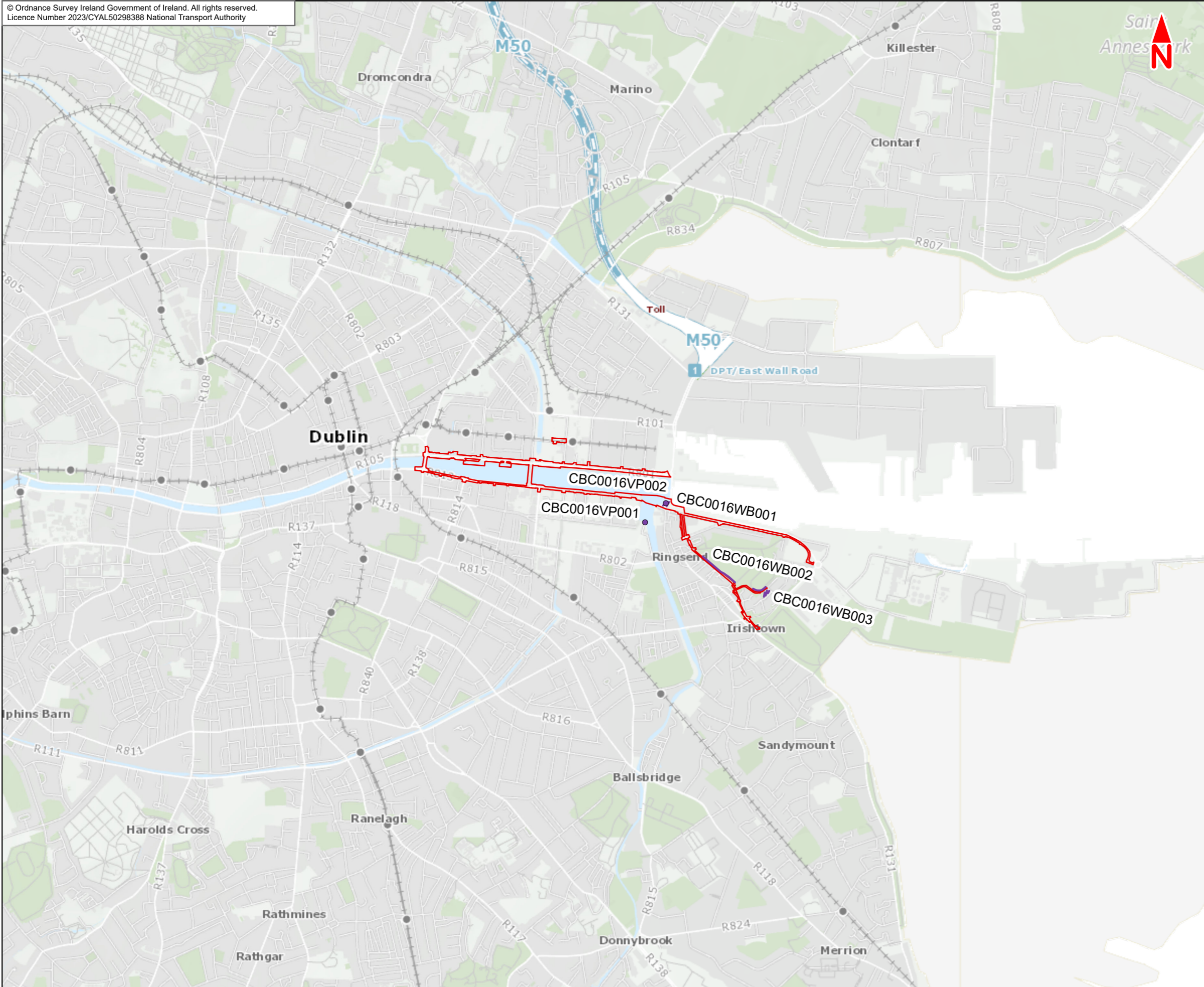
Rev	Date	Drn	Chk'd	App'd	Description
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Client <b>NTA</b> Udarás Náisiúnta Iompair National Transport Authority		Consultant <b>JACOBS ARUP SYSTRA</b>		
Date 05/04/2023	Scale @ A3 1:10 000	Drawn EK	Checked PW	Approved DK
Project Code BCIDE	Originator Code JAC	QMS Code		

Programme Title <b>BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS</b>				
Drawing Title Ringsend to City Centre Core Bus Corridor Scheme Figure 12.1.2 Ecological Study Areas: Breeding Bird Survey Sites				
Drawing File Name BCIDE-JAC-ENV_BD-0016_XX_00-DR-GG-0110	Sheet Number 1 of 1	Status A	Rev M01	

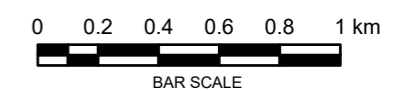


**12.1.3**  
Ecological Study Areas:  
Wintering Bird Survey Sites



- Legend :**
- Ringsend to City Centre Core Bus Corridor Scheme
  - Wintering Birds Vantage Point
  - Wintering Birds Transect


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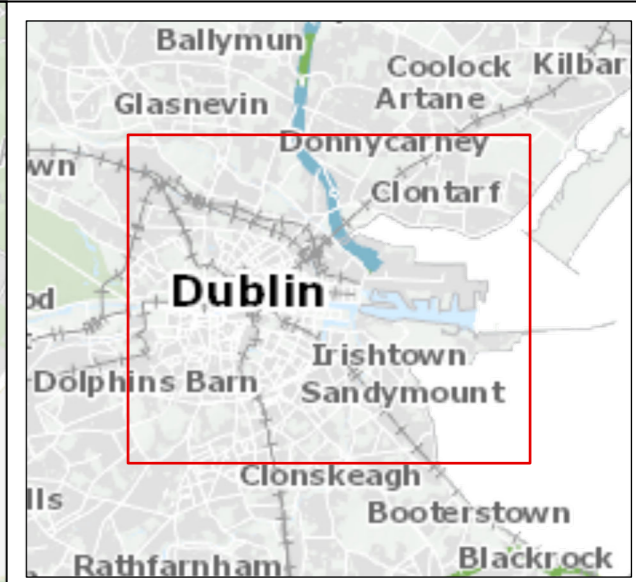
Client  
  
 Údarás Náisiúnta Iompair  
 National Transport Authority

Consultant  


Programme Title <b>BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS</b>			
Drawing Title Ringsend to City Centre Core Bus Corridor Scheme Figure 12.1.3 Ecological Study Areas: Wintering Bird Survey Sites			
Date 05/04/2023	Scale @ A3 1:25 000	Drawn EK	Checked PW
Project Code BCIDE	Originator Code JAC	Approved DK	QMS Code
Drawing File Name BCIDE-JAC-ENV_BD-0016_XX_00-DR-GG-0301	Sheet Number 1 of 1	Status A	Rev M01

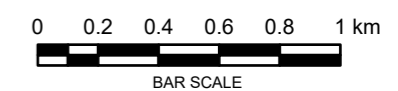
The background features a vibrant yellow field with abstract, overlapping shapes in dark blue, light blue, and teal. Several white circles of varying sizes are scattered throughout, some appearing as if they are floating or attached to the larger shapes. The overall aesthetic is modern and graphic.

## 12.1.4 Ecological Study Areas: Aquatic and Riparian Survey Sites



- Legend :**
- Ringsend to City Centre Core Bus Corridor Scheme
  - Aquatic and Riparian Survey Sites (2020)
  - Extent of Otter and Kingfisher Survey


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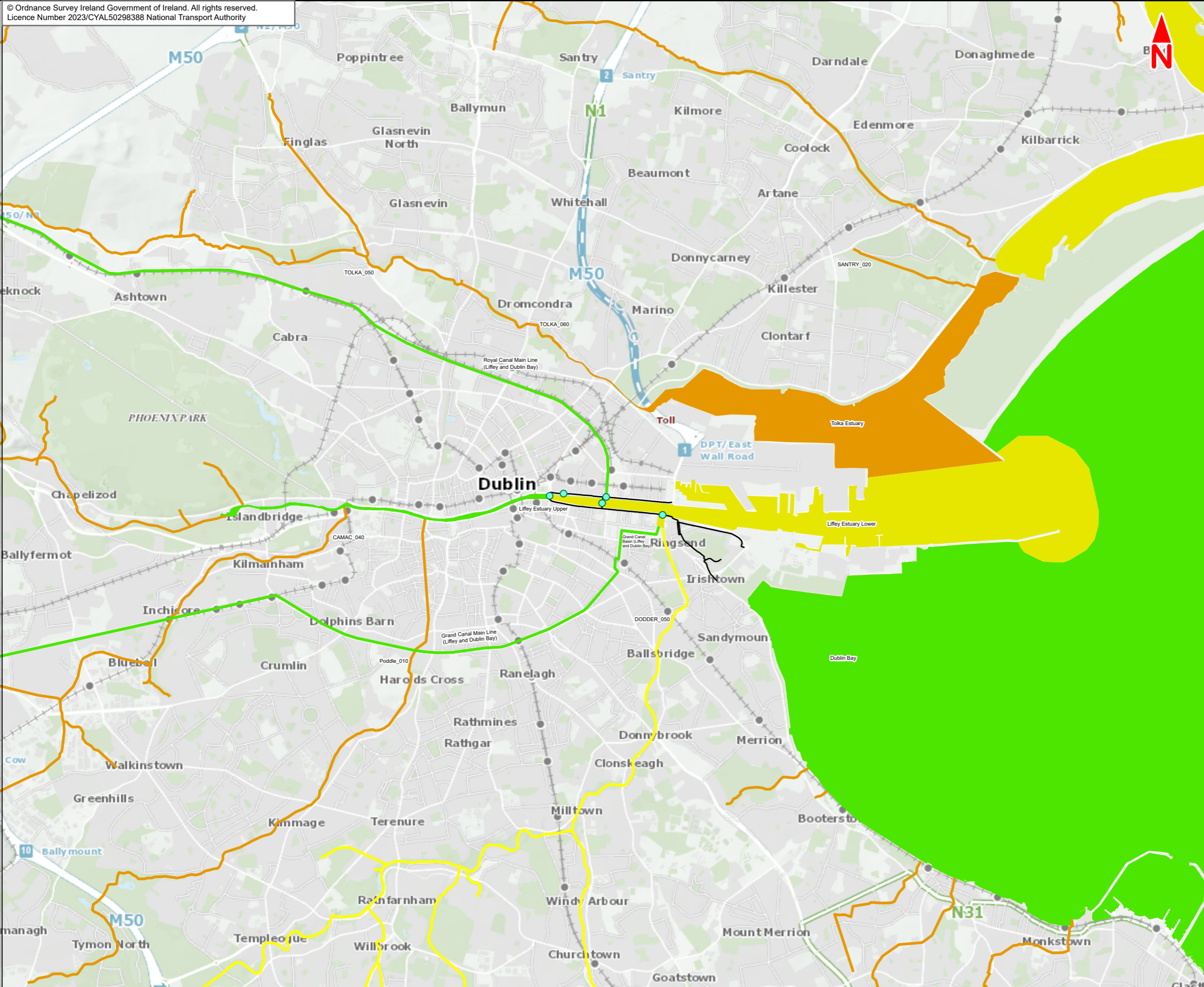
Consultant  


Programme Title <b>BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS</b>			
Drawing Title Ringsend to City Centre Core Bus Corridor Scheme Figure 12.1.4 Ecological Study Areas: Aquatic and Riparian Survey Sites			
Date 05/04/2023	Scale @ A3 1:25 000	Drawn EK	Checked PW
Project Code BCIDE	Originator Code JAC	Approved DK	QMS Code
Drawing File Name BCIDE-JAC-ENV BD-0016_XX_00-DR-GG-0701	Sheet Number 1 of 1	Status A	Rev M01



The background of the slide is a vibrant yellow. It is decorated with several abstract, organic shapes in shades of blue and green. These shapes are interconnected and feature white circular cutouts. The shapes are primarily located on the right side and bottom of the page, creating a dynamic, modern aesthetic. The text is positioned on the left side of the slide, set against the plain yellow background.

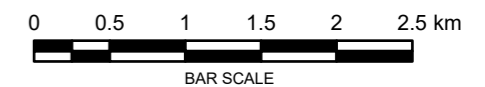
**12.2**  
Hydrological Connectivity  
to the Proposed Scheme



**Legend :**

- Ringsend to City Centre Core Bus Corridor Scheme
- Scheme Waterbody Crossings
- Canal Waterbody WFD Status 2016 - 2021**
- Good
- Moderate
- Poor
- River Waterbody WFD Status 2016 - 2021**
- Good
- Moderate
- Poor
- Transitional Waterbody WFD Status 2016 - 2021**
- Good
- Moderate
- Poor
- Coastal Waterbody WFD Status 2016 - 2021**
- Good

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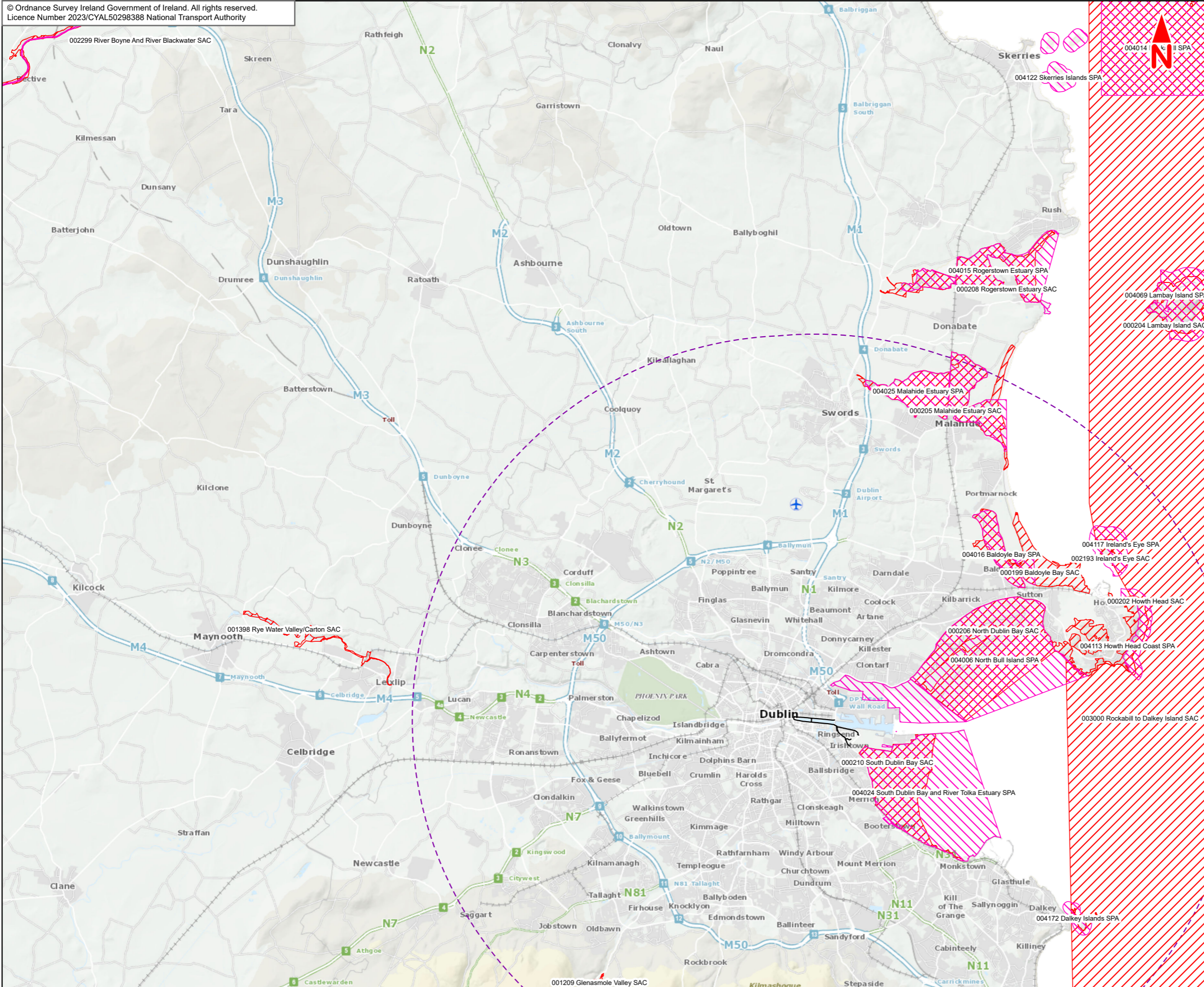
Rev	Date	Drn	Chk'd	App'd	Description
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Client <b>NTA</b> Udarás Náisiúnta Iompair National Transport Authority		Consultant <b>JACOBS</b> <b>ARUP SYSTRA</b>		
Date 05/04/2023	Scale @ A3 1:50 000	Drawn EK	Checked PW	Approved DK
Project Code BCIDE	Originator Code JAC	QMS Code		

Programme Title <b>BUSCONNECTS DUBLIN</b> <b>CORE BUS CORRIDORS INFRASTRUCTURE WORKS</b>				
Drawing Title Ringsend to City Centre Core Bus Corridor Scheme Figure 12.2 Hydrological Connectivity to the Proposed Scheme				
Drawing File Name BCIDE-JAC-ENV BD-0016_XX_00-DR-GG-0003	Sheet Number 1 of 1	Status A	Rev M01	

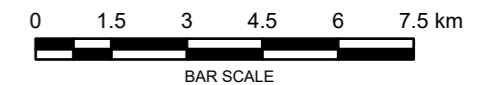
The background of the slide is a vibrant yellow. It is decorated with several abstract, overlapping shapes in shades of blue and green. These shapes include rounded rectangles, elongated ovals, and curved bands. Interspersed among these shapes are several white circles of varying sizes, some of which are partially enclosed by the colored shapes. The overall aesthetic is modern and geometric.

## 12.3 European Sites in the Vicinity of the Proposed Scheme



- Legend :**
- Ringsend to City Centre Core Bus Corridor Scheme
  - - - 15km from Proposed Scheme
  - Special Protection Areas (SPA)
  - Special Area of Conservation (SAC)

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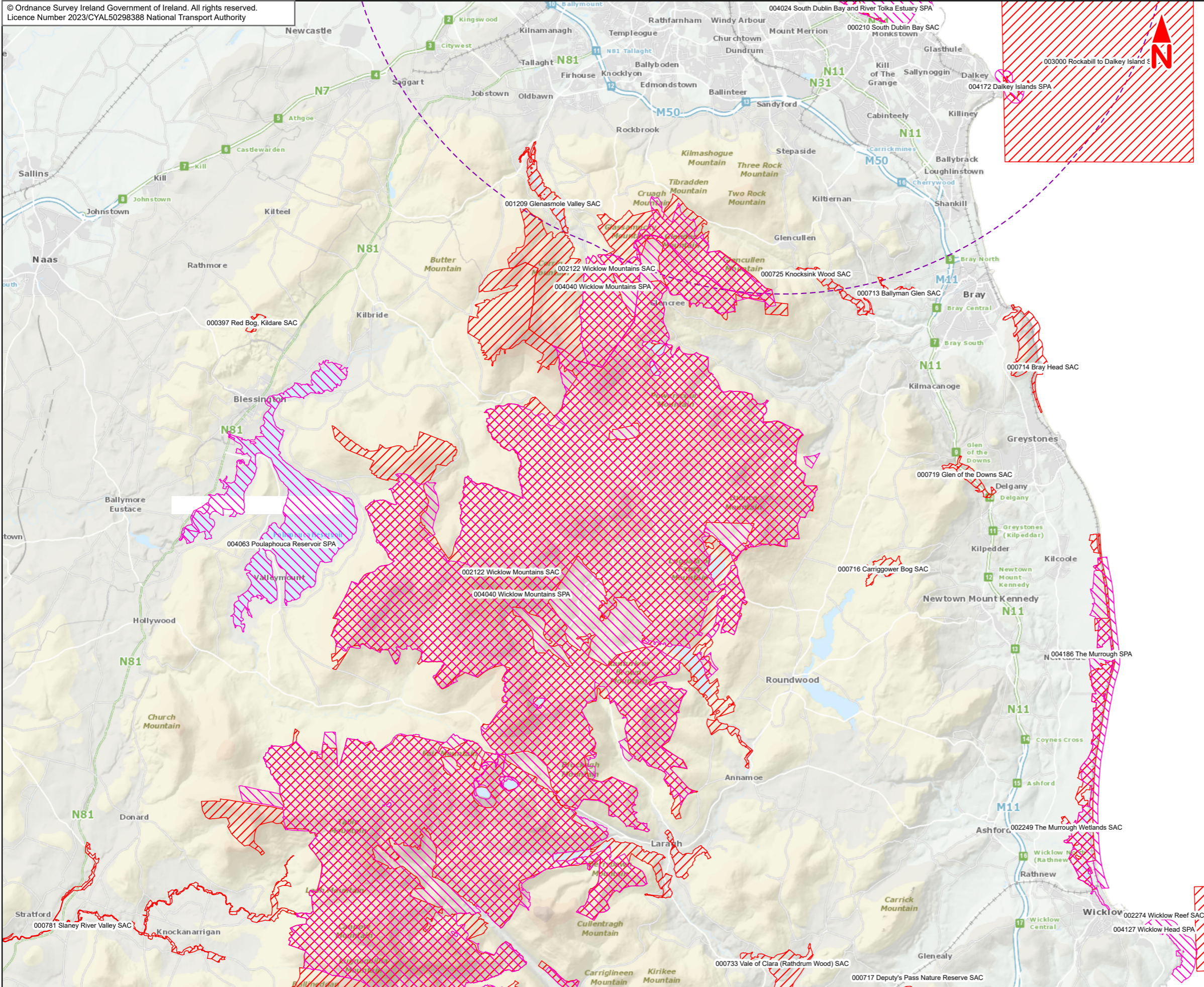
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Client: **NTA**  
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National Transport Authority

Consultant: **JACOBS ARUP SYSTRA**

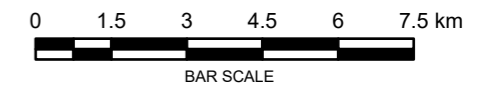
Date: 06/04/2023 | Scale @ A3: 1:150 000  
 Drawn: FC | Checked: PW | Approved: DK  
 Project Code: BCIDE | Originator Code: JAC | QMS Code:

Programme Title: <b>BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS</b>			
Drawing Title: Ringsend to City Centre Core Bus Corridor Scheme Figure 12.3 European sites in the Vicinity of the Proposed Scheme			
Drawing File Name: BCIDE-JAC-ENV BD-0016_XX 00-DR-GG-0001	Sheet Number: 1 of 2	Status: A	Rev: M01



- Legend :**
- Ringsend to City Centre Core Bus Corridor Scheme
  - 15km from Proposed Scheme
  - Special Protection Areas (SPA)
  - Special Area of Conservation (SAC)

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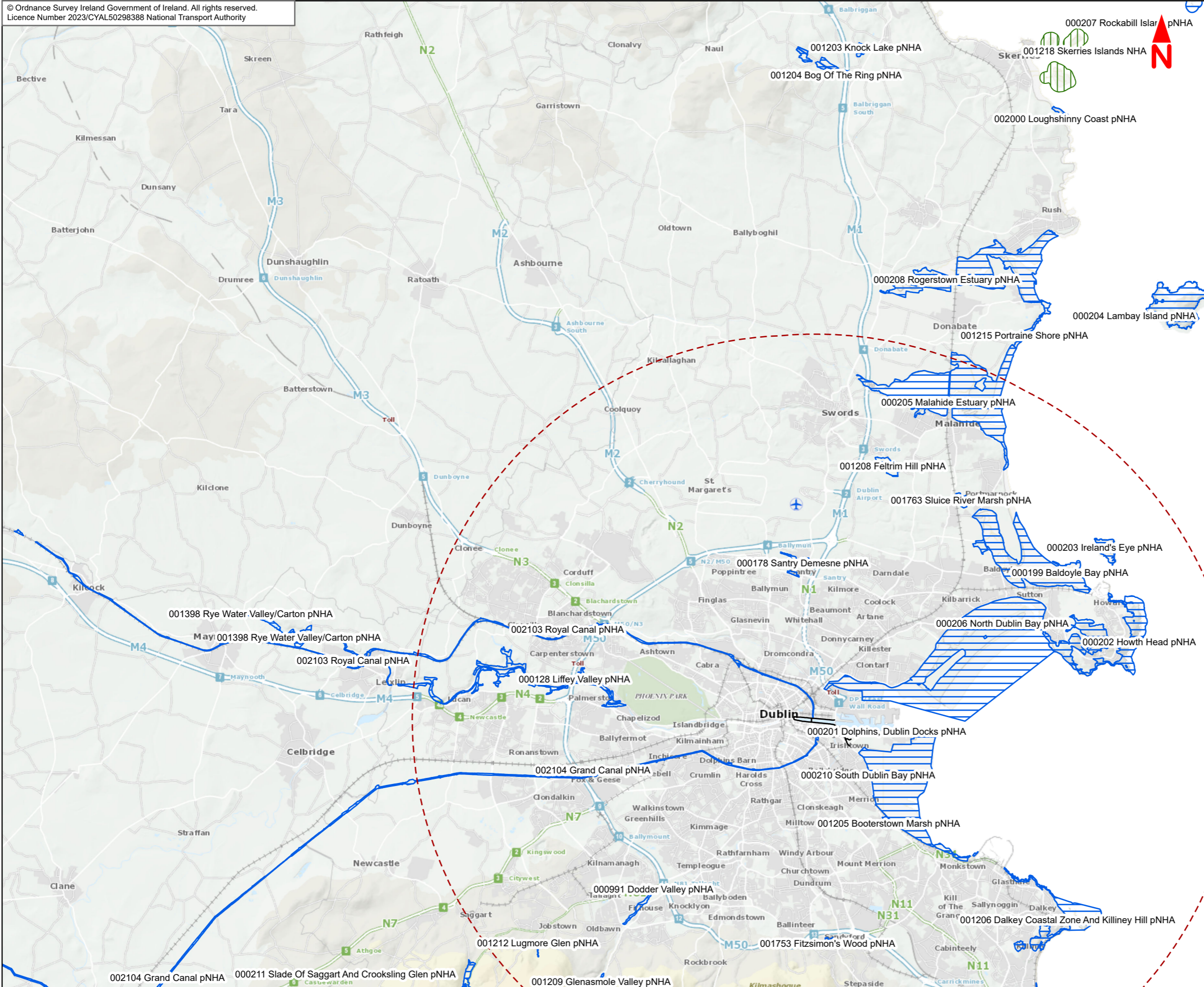
Client <b>NTA</b> Udarás Náisiúnta Iompair National Transport Authority		Consultant <b>JACOBS ARUP SYSTRA</b>		
Date 06/04/2023	Scale @ A3 1:150 000	Drawn FC	Checked PW	Approved DK
Project Code BCIDE	Originator Code JAC	QMS Code		

Programme Title <b>BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS</b>				
Drawing Title Ringsend to City Centre Core Bus Corridor Scheme Figure 12.3 European sites in the Vicinity of the Proposed Scheme				
Drawing File Name BCIDE-JAC-ENV_BD-0016_XX_00-DR-GG-0091	Sheet Number 2 of 2	Status A	Rev M01	

## 12.4

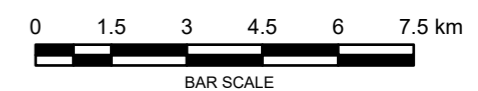
Natural Heritage Areas and  
Proposed Natural Heritage  
Areas in the Vicinity of the  
Proposed Scheme





- Legend :**
- Ringsend to City Centre Core Bus Corridor Scheme
  - 15km Study Area
  - Natural Heritage Area
  - Proposed Natural Heritage Area

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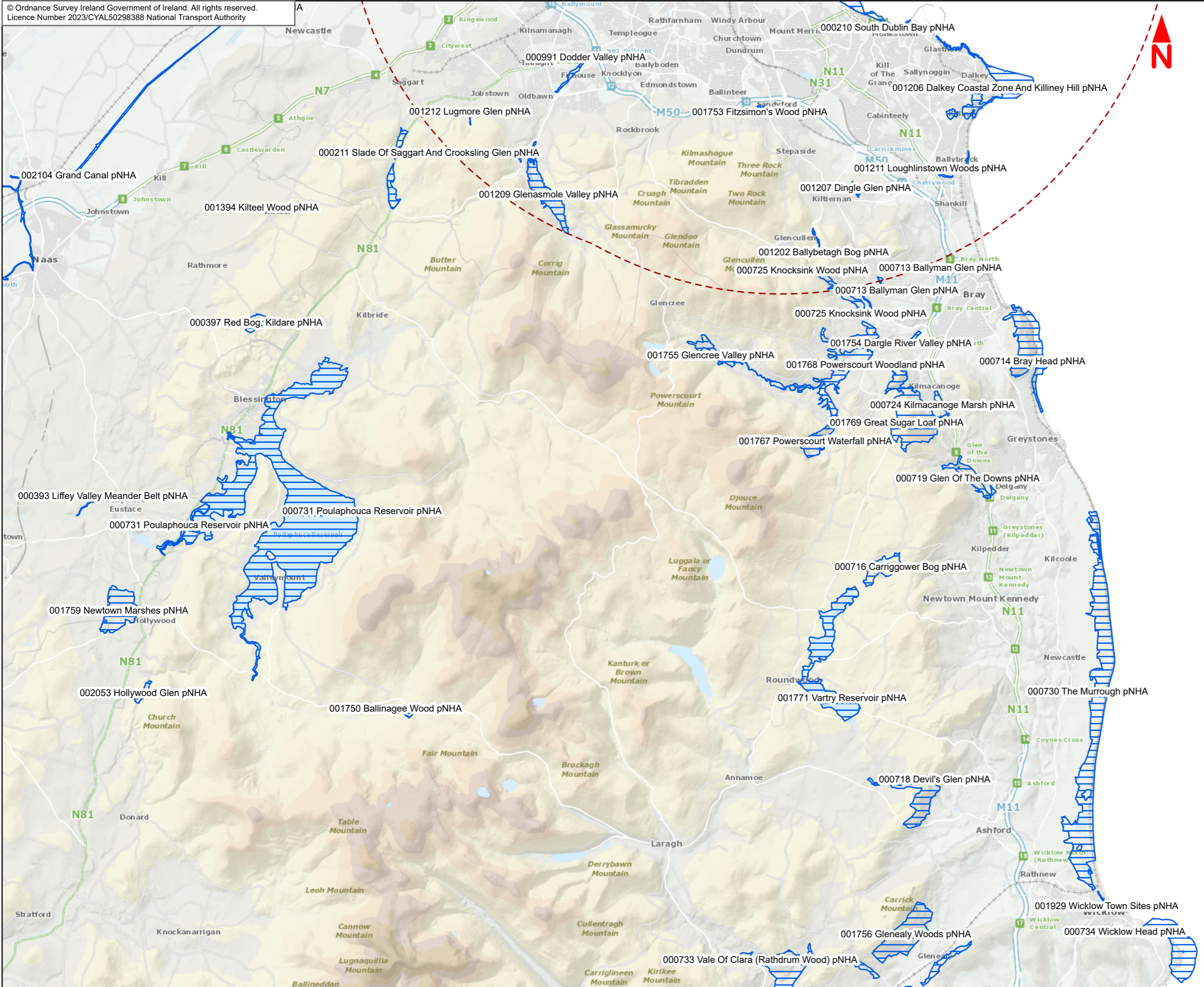
Client: **NTA**  
Udarás Náisiúnta Iompair  
National Transport Authority

Consultant: **JACOBS ARUP SYSTRA**

Date: 06/04/2023 | Scale @ A3: 1:150 000  
 Project Code: BCIDE | Originator Code: JAC

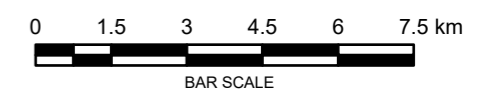
Drawn: FC | Checked: PW | Approved: DK

Programme Title: <b>BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS</b>			
Drawing Title: Ringsend to City Centre Core Bus Corridor Scheme Figure 12.4 Natural Heritage Areas and Proposed Natural Heritage Areas in the Vicinity of the Proposed Scheme			
Drawing File Name: BCIDE-JAC-ENV BD-0016_XX_00-DR-GG-0002	Sheet Number: 1 of 2	Status: A	Rev: M01



- Legend :**
- Ringsend to City Centre
  - Core Bus Corridor Scheme
  - - - 15km Study Area
  - ▨ Natural Heritage Area
  - ▨ Proposed Natural Heritage Area

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Project Code: BCIDE Originator Code: JAC

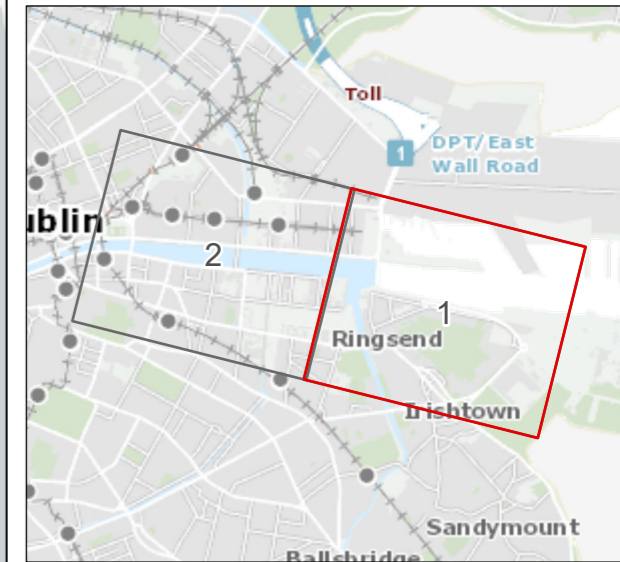
Drawn: FC Checked: PW Approved: DK

Programme Title: <b>BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS</b>			
Drawing Title: Ringsend to City Centre Core Bus Corridor Scheme Figure 12.4 Natural Heritage Areas and Proposed Natural Heritage Areas in the Vicinity of the Proposed Scheme			
Drawing File Name: BCIDE-JAC-ENV BD-0016_XX_00-DR-GG-0092	Sheet Number: 2 of 2	Status: A	Rev: M01



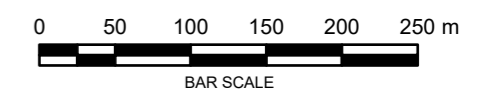


**12.5**  
Habitat Survey Results  
- Fossitt 2000 Habitat  
Classification



- Legend:**
- Ringsend to City Centre Core Bus Corridor Scheme
  - Fossitt Habitat Types**
  - BL1
  - WL2
  - BC2
  - BL3
  - CC1
  - CW2
  - GA2
  - GS2
  - WD5
  - WL2
  - WS1
  - WS3
  - Other Habitat Types**
  - Res

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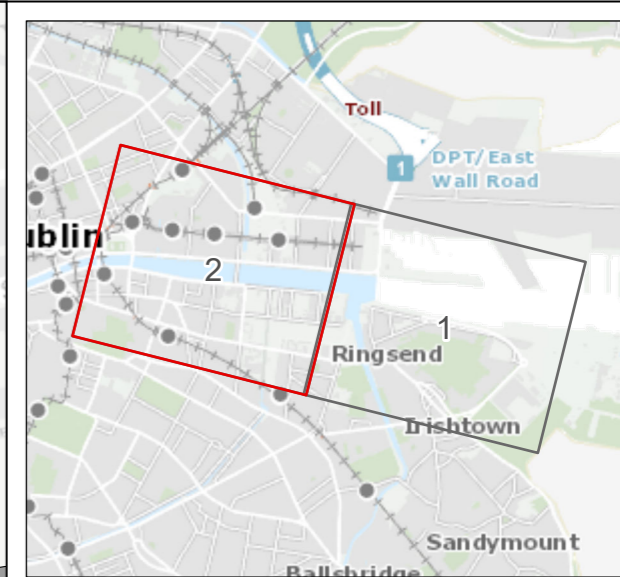
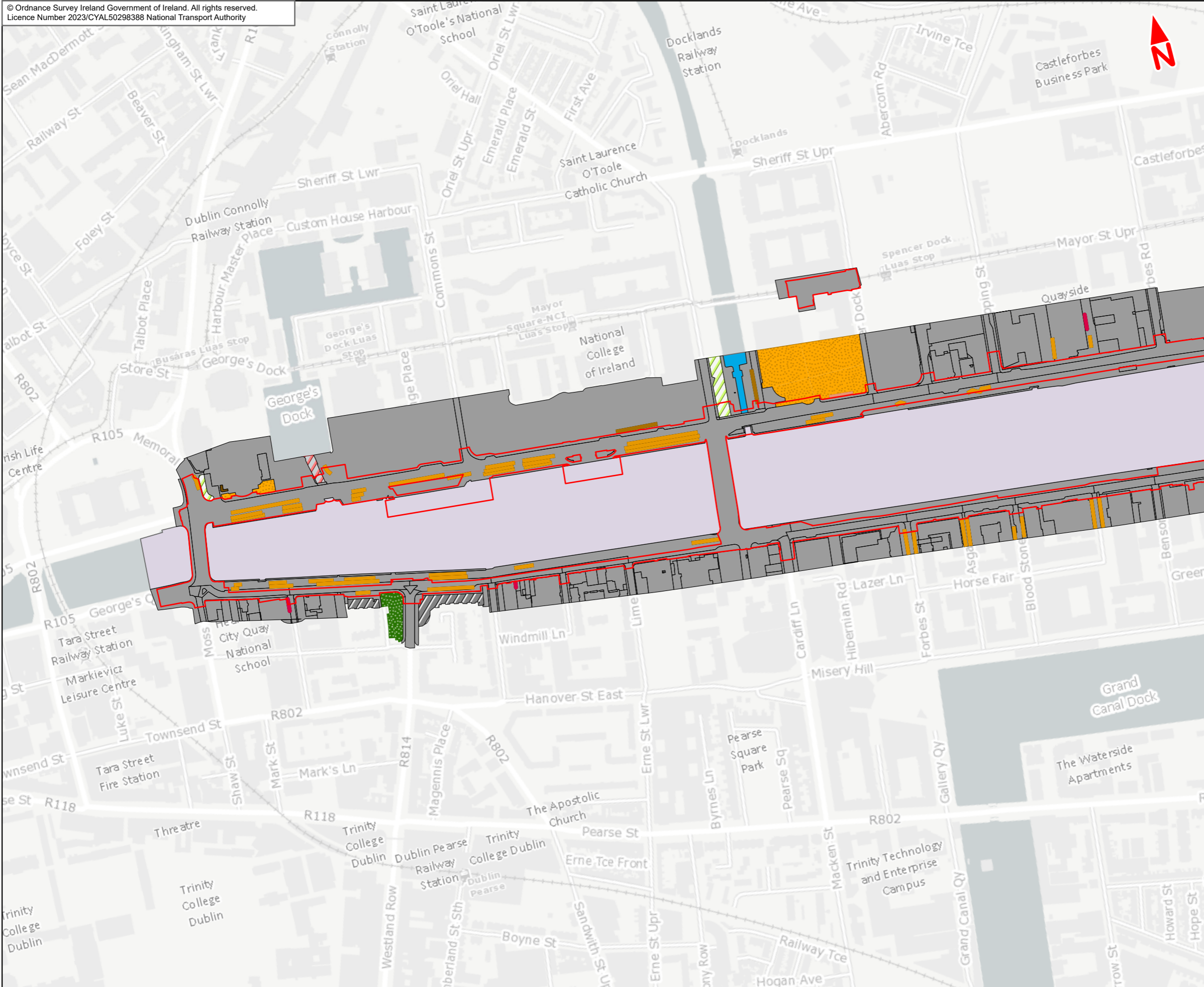
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**JACOBS ARUP SYSTRA**

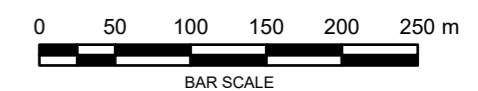
Programme Title <b>BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS</b>				
Drawing Title Ringsend to City Centre Core Bus Corridor Scheme Figure 12.5 Habitat Survey Results - Fossitt 2000 Habitat Classification				
Drawing File Name BCIDE-JAC-ENV BD-0016_XX_00-DR-GG-0201	Sheet Number 1 of 2	Status A	Rev M01	

Date 06/04/2023	Scale @ A3 1:5 000	Drawn EK	Checked PW	Approved DK
Project Code BCIDE	Originator Code JAC	QMS Code		



- Legend:**
- Ringsend to City Centre Core Bus Corridor Scheme
- Fossitt Habitat Types**
- BC4
  - WL1
  - WL2
  - WS3
  - BC4
  - BL3
  - CW2
  - ED2
  - FW3
  - GA2
  - WD5
  - WS3
- Other Habitat Types**
- Res

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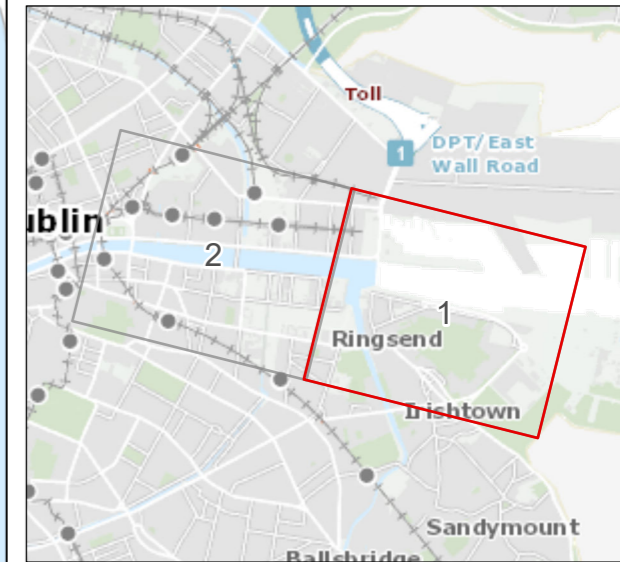
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Consultant  
**JACOBS**  
**ARUP SYSTRA**

Programme Title <b>BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS</b>				
Drawing Title Ringsend to City Centre Core Bus Corridor Scheme Figure 12.5 Habitat Survey Results - Fossitt 2000 Habitat Classification				
Date 06/04/2023	Scale @ A3 1:5 000	Drawn EK	Checked PW	Approved DK
Project Code BCIDE	Originator Code JAC	QMS Code		Drawing File Name BCIDE-JAC-ENV_BD-0016_XX_00-DR-GG-0202
Sheet Number 2 of 2	Status A	Rev M01		

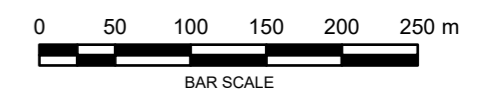


**12.6.1**  
Bat Activity Survey Results



- Legend :**
- Ringsend to City Centre Core Bus Corridor Scheme
  - Bat Survey Transects
- Bat Species**
- *Nyctalus leisleri*
  - *Pipistrellus pipistrellus*
  - *Pipistrellus pygmaeus*
  - *Pipistrellus sp.*

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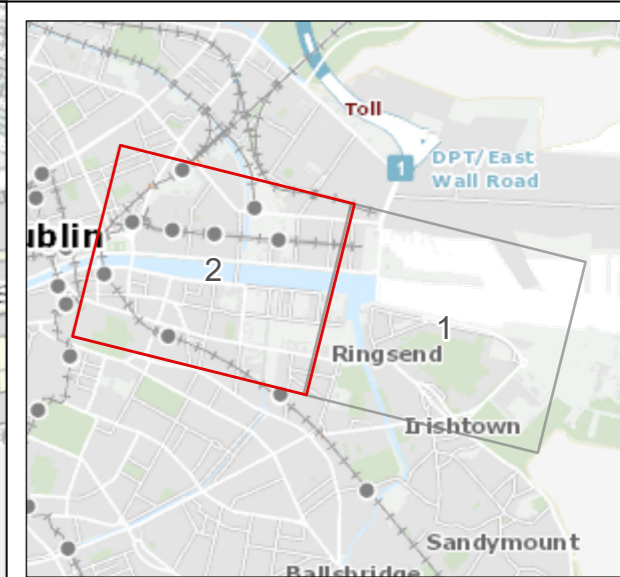
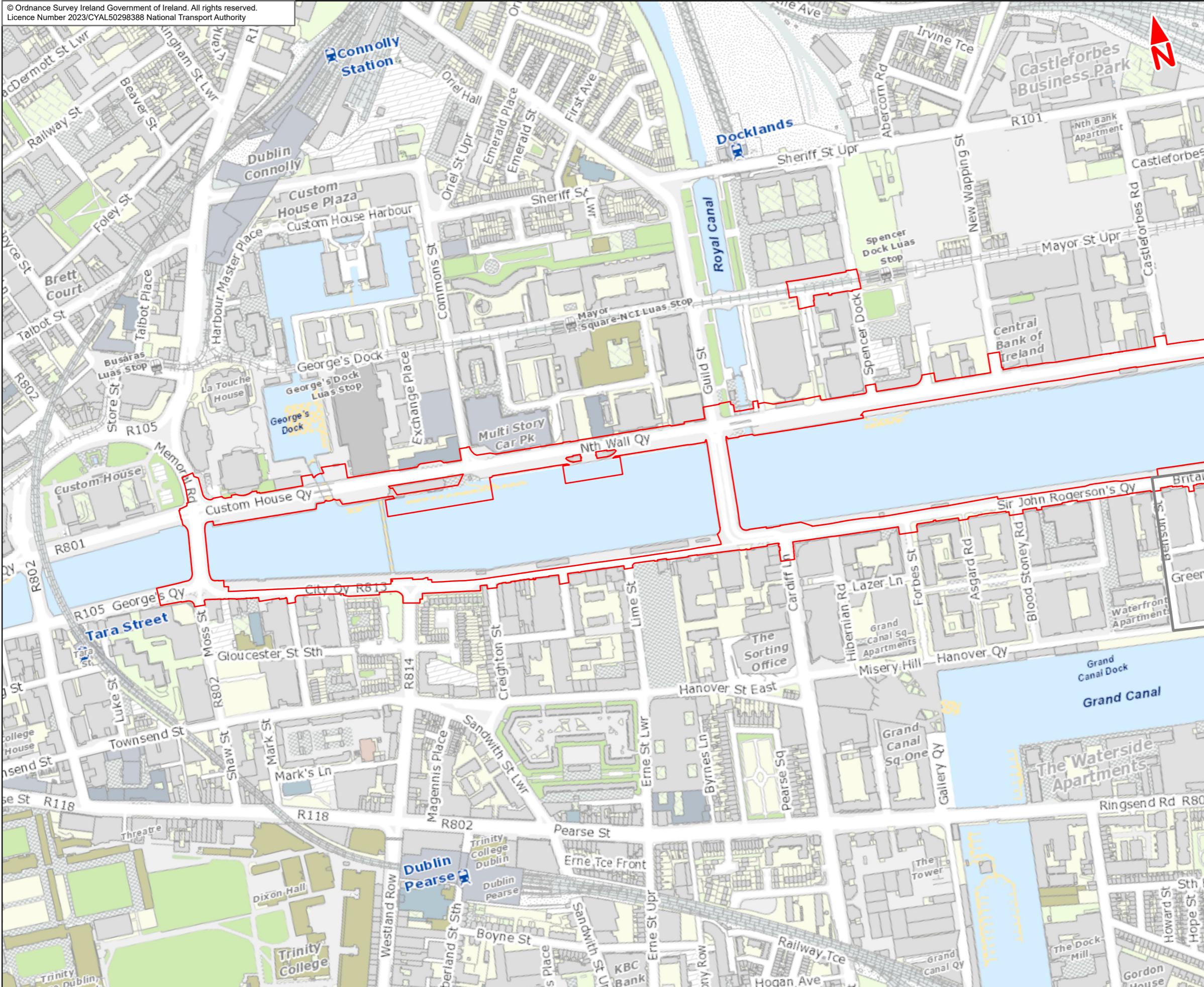
Project Code: BCIDE  
Originator Code: JAC

Consultant: **JACOBS ARUP SYSTRA**

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Checked: PW  
Approved: DK

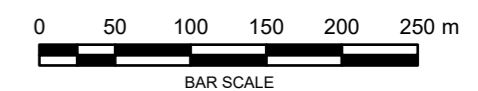
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Programme Title: <b>BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS</b>			
Drawing Title: Ringsend to City Centre Core Bus Corridor Scheme Figure 12.6.1 Bat Activity Survey Results			
Drawing File Name: BCIDE-JAC-ENV BD-0016_XX_00-DR-GG-0401	Sheet Number: 1 of 2	Status: A	Rev: M01



- Legend :**
- Ringsend to City Centre Core Bus Corridor Scheme
  - Bat Survey Transects
- Bat Species**
- *Nyctalus leisleri*
  - *Pipistrellus pipistrellus*

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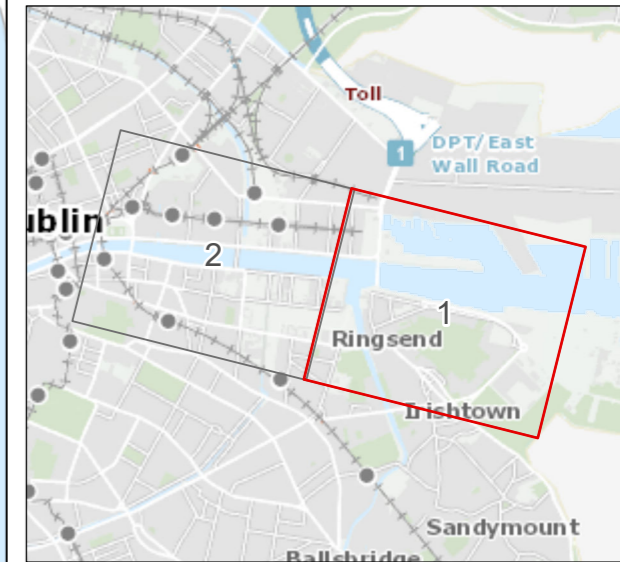
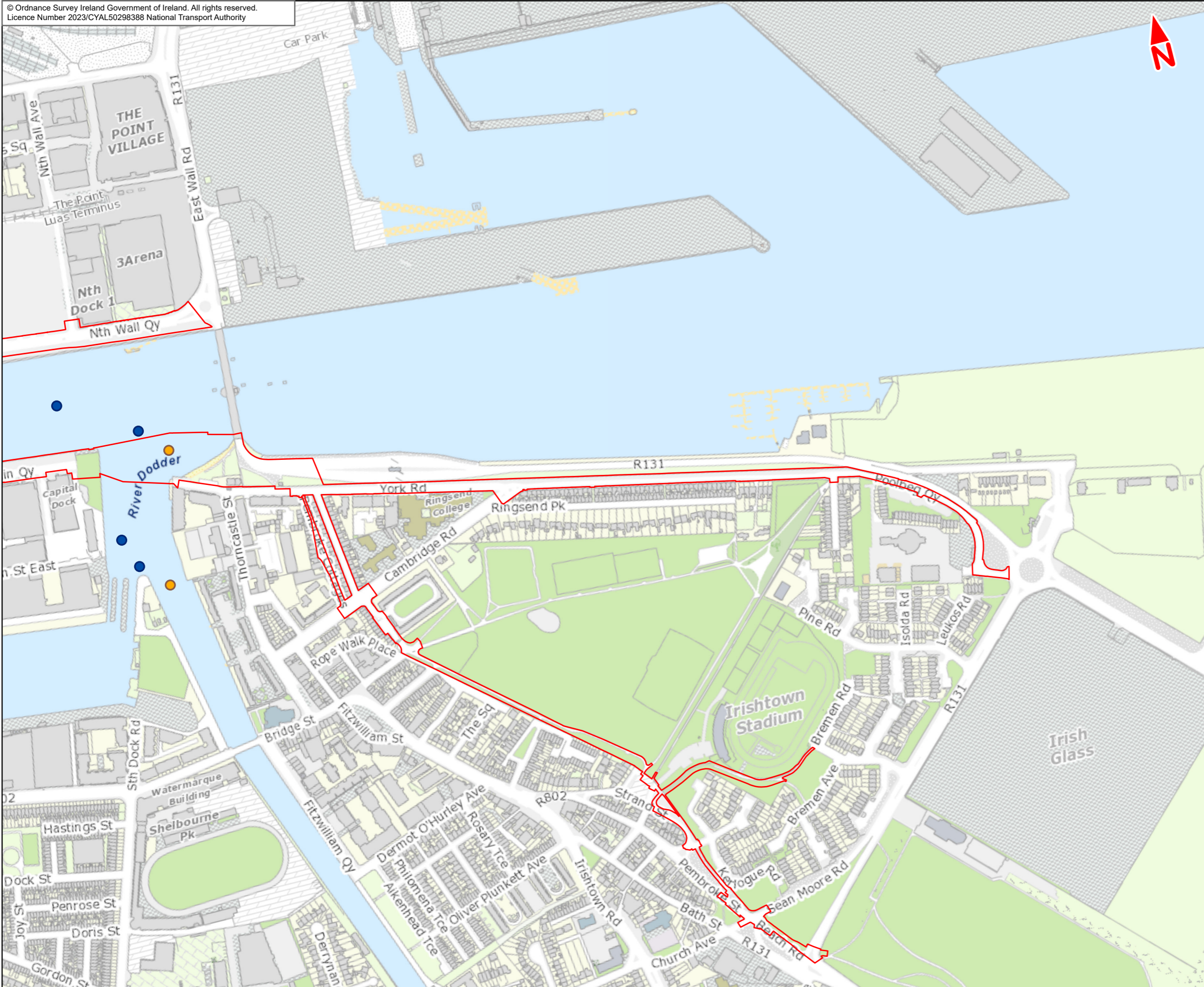
Consultant  
**JACOBS**  
**ARUP SYSTRA**

Programme Title <b>BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS</b>				
Drawing Title Ringsend to City Centre Core Bus Corridor Scheme Figure 12.6.1 Bat Activity Survey Results				
Date	Scale @ A3	Drawn	Checked	Approved
06/04/2023	1:5 000	FC	PW	DK
Project Code	Originator Code	QMS Code		
BCIDE	JAC			
Drawing File Name	Sheet Number	Status	Rev	
BCIDE-JAC-ENV_BD-0016_XX_00-DR-GG-0402	2 of 2	A	M01	

The background of the slide is a vibrant yellow. It is decorated with several abstract, organic shapes in shades of blue and teal. These shapes are interconnected and layered, creating a sense of depth and movement. Scattered throughout the composition are several white circles of varying sizes, some of which are partially enclosed by the blue and teal shapes, resembling eyes or focal points. The overall aesthetic is modern and graphic.

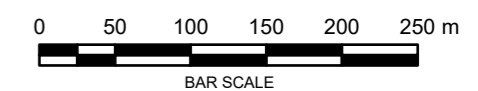
**12.7**

Terrestrial and Marine Mammal  
Observations



- Legend :**
- Ringsend to City Centre Core Bus Corridor Scheme
  - Live Otter sighting
  - Live Seal sighting

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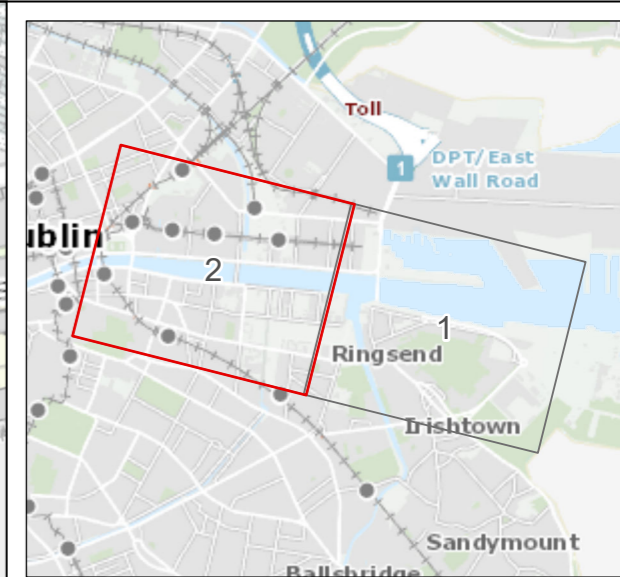
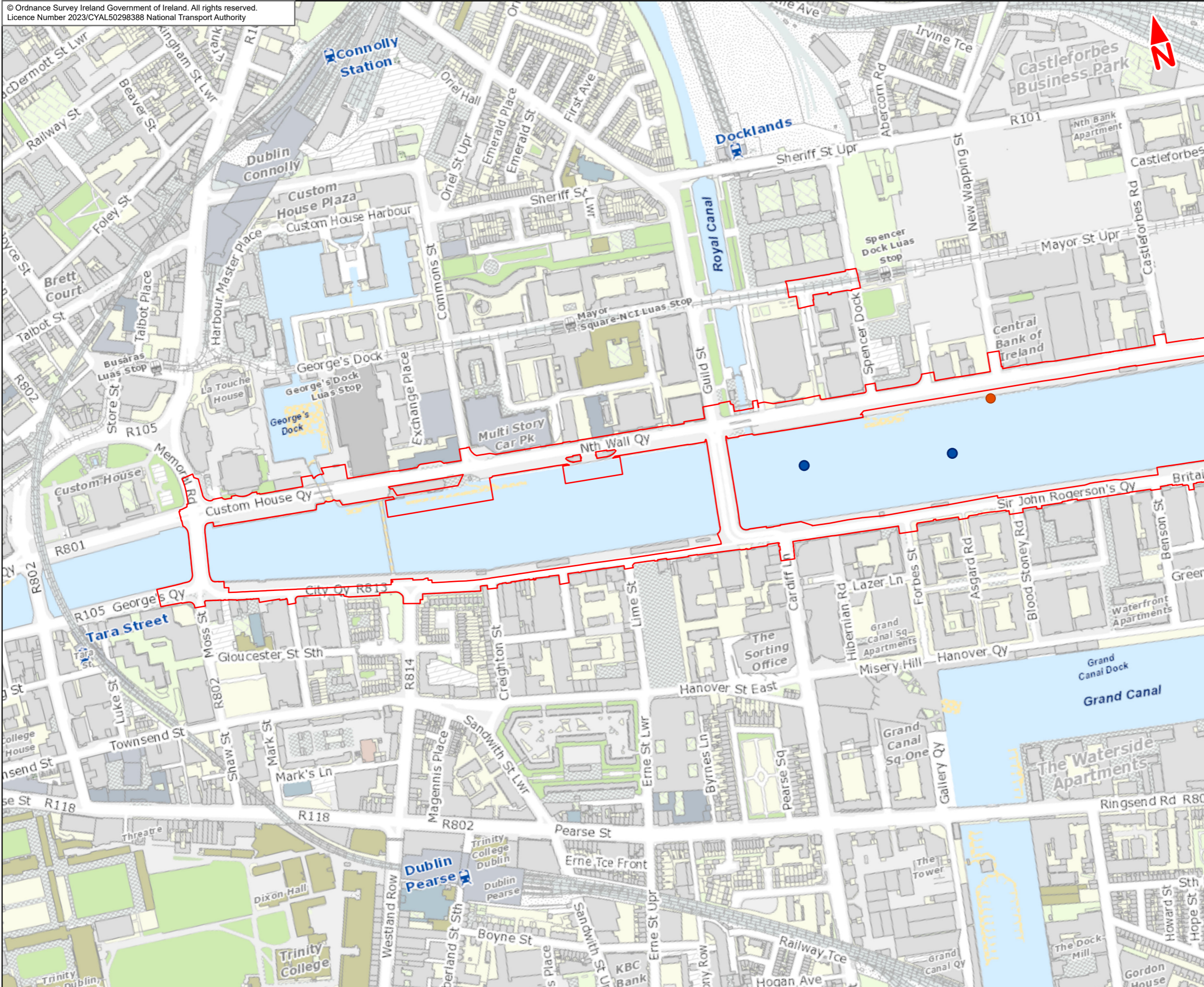
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Programme Title <b>BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS</b>				
Drawing Title Ringsend to City Centre Core Bus Corridor Scheme Figure 12.7 Terrestrial and Marine Mammal Observations				
Drawing File Name BCIDE-JAC-ENV BD-0016_XX_00-DR-GG-0801	Sheet Number 1 of 2	Status A	Rev M01	

Date 06/04/2023	Scale @ A3 1:5 000	Drawn EK	Checked PW	Approved DK
Project Code BCIDE	Originator Code JAC	QMS Code		





- Legend :**
- Ringsend to City Centre Core Bus Corridor Scheme
  - Live Seal sighting
  - Potential Otter resting place

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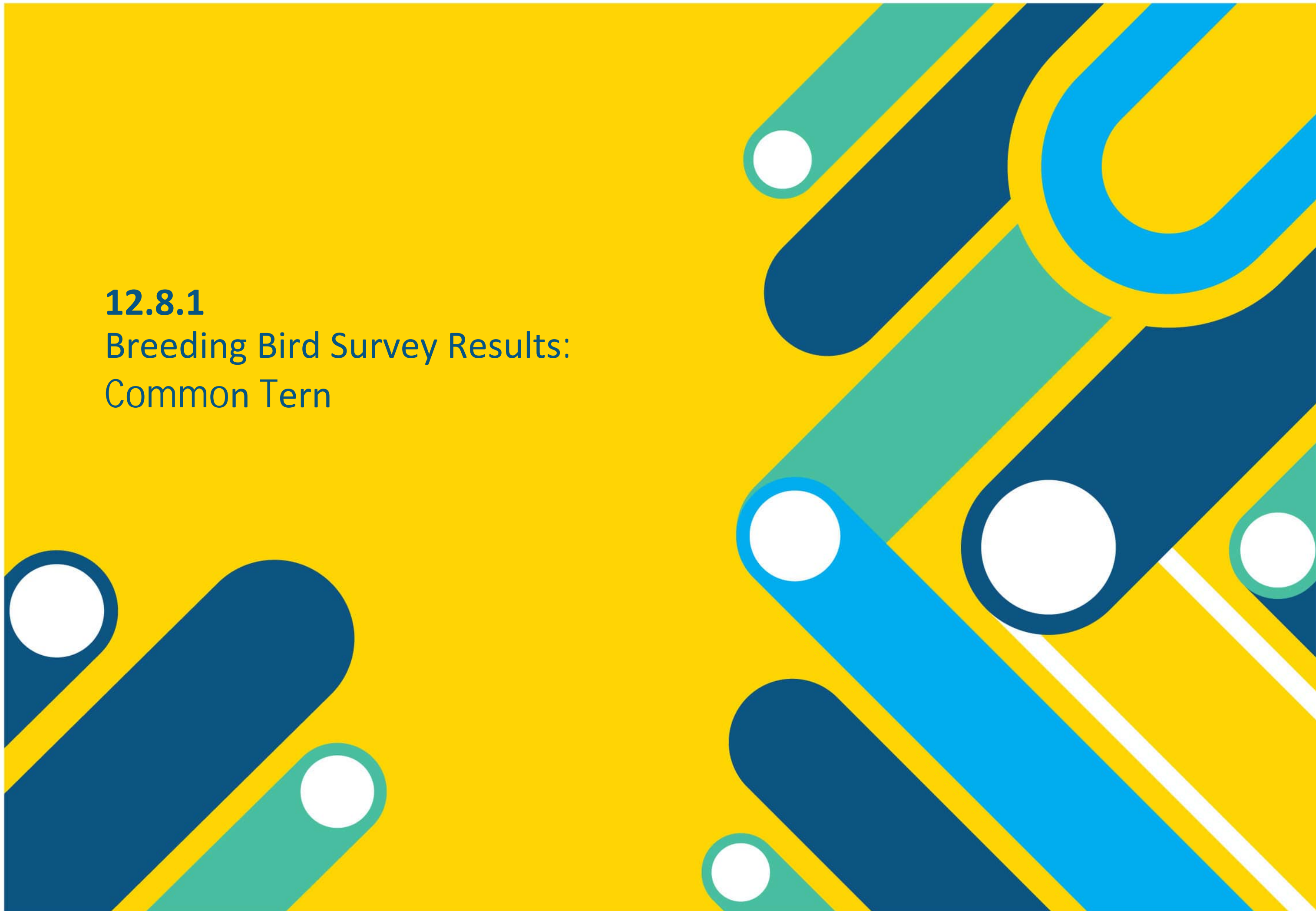
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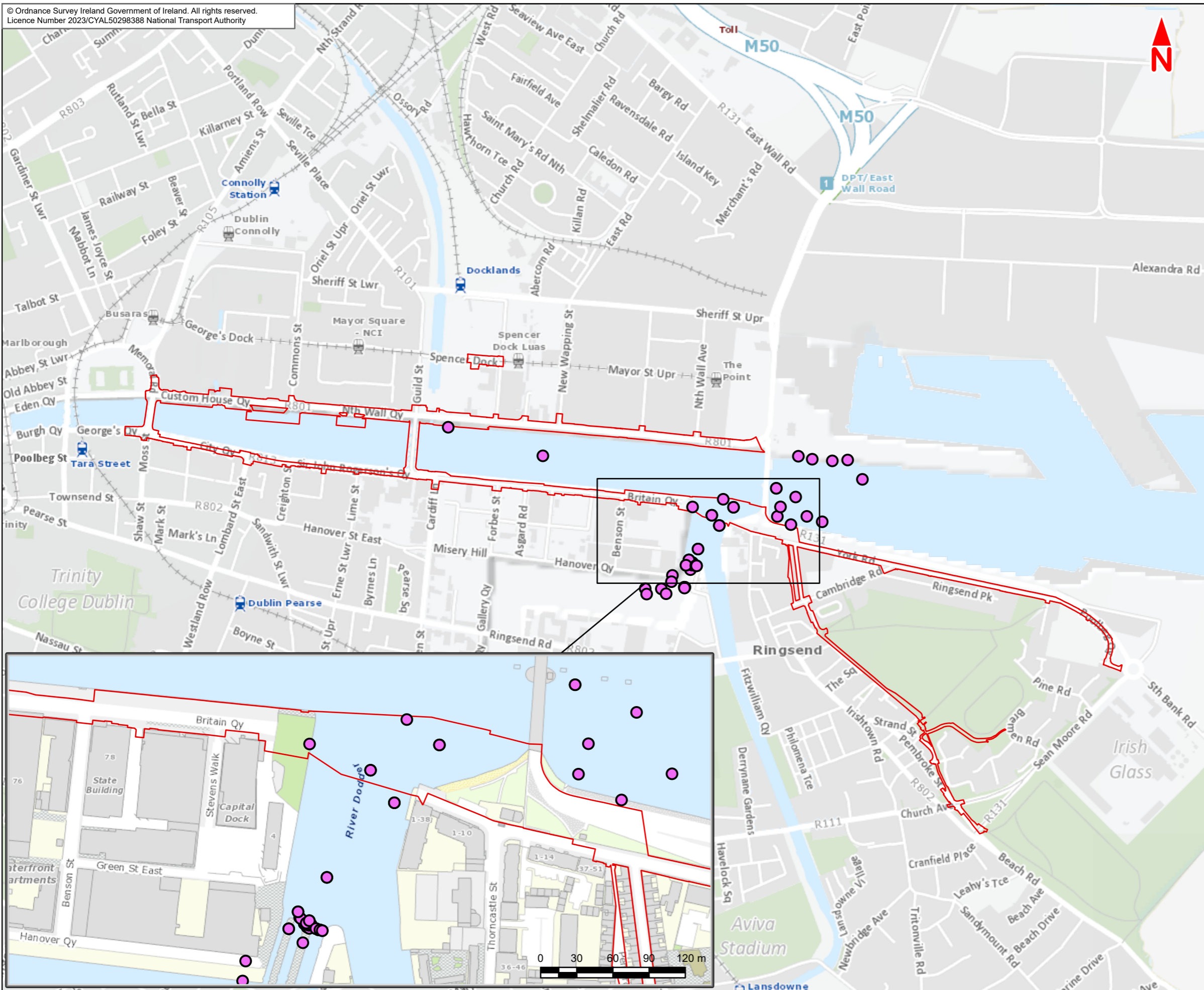
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Programme Title <b>BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS</b>				
Drawing Title Ringsend to City Centre Core Bus Corridor Scheme Figure 12.7 Terrestrial and Marine Mammal Observations				
Date 06/04/2023	Scale @ A3 1:5 000	Drawn EK	Checked PW	Approved DK
Project Code BCIDE	Originator Code JAC	QMS Code		Drawing File Name BCIDE-JAC-ENV BD-0016_XX_00-DR-GG-0802
Sheet Number 2 of 2		Status A	Rev M01	

## 12.8.1

### Breeding Bird Survey Results: Common Tern





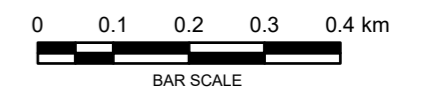
**Legend :**

- Ringsend to City Centre Core Bus Corridor Scheme

**Bird Species**

- Common Tern

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Client <b>NTA</b> Udarás Náisiúnta Iompair National Transport Authority		Consultant <b>JACOBS</b> <b>ARUP SYSTRA</b>		
Date 13/04/2023	Scale @ A3 1:10 000	Drawn EK	Checked PW	Approved DK
Project Code BCIDE	Originator Code JAC	QMS Code		

Programme Title <b>BUSCONNECTS DUBLIN</b> <b>CORE BUS CORRIDORS INFRASTRUCTURE WORKS</b>				
Drawing Title Ringsend to City Centre Core Bus Corridor Scheme Figure 12.8.1 Breeding Bird Survey Results: Common Tern				
Drawing File Name BCIDE-JAC-ENV_BD-0016_XX_00-DR-GG-0111	Sheet Number 1 of 1	Status A	Rev M01	

## 12.8.2

### Breeding Bird Survey Results: Black Guillemot

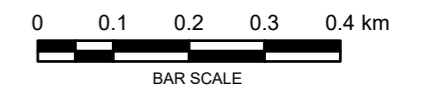




**Legend :**

- Ringsend to City Centre Core Bus Corridor Scheme
- Black Gulliemot

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Date 13/04/2023	Scale @ A3 1:10 000	Drawn EK	Checked PW	Approved DK
Project Code BCIDE	Originator Code JAC	QMS Code		

Programme Title <b>BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS</b>				
Drawing Title Ringsend to City Centre Core Bus Corridor Scheme Figure 12.8.2 Breeding Bird Survey Results: Black Gulliemot				
Drawing File Name BCIDE-JAC-ENV_BD-0016_XX_00-DR-GG-0112	Sheet Number 1 of 1	Status A	Rev M01	

### 12.8.3

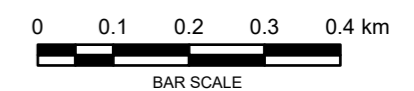
## Breeding Bird Survey Results: Sand Martin





- Legend :**
- Ringsend to City Centre Core Bus Corridor Scheme
  - Bird Species
  - Sand Martin

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Udarás Náisiúnta Iompair  
National Transport Authority

Consultant: **JACOBS ARUP SYSTRA**

Date: 13/04/2023 | Scale @ A3: 1:10 000  
Project Code: BCIDE | Originator Code: JAC

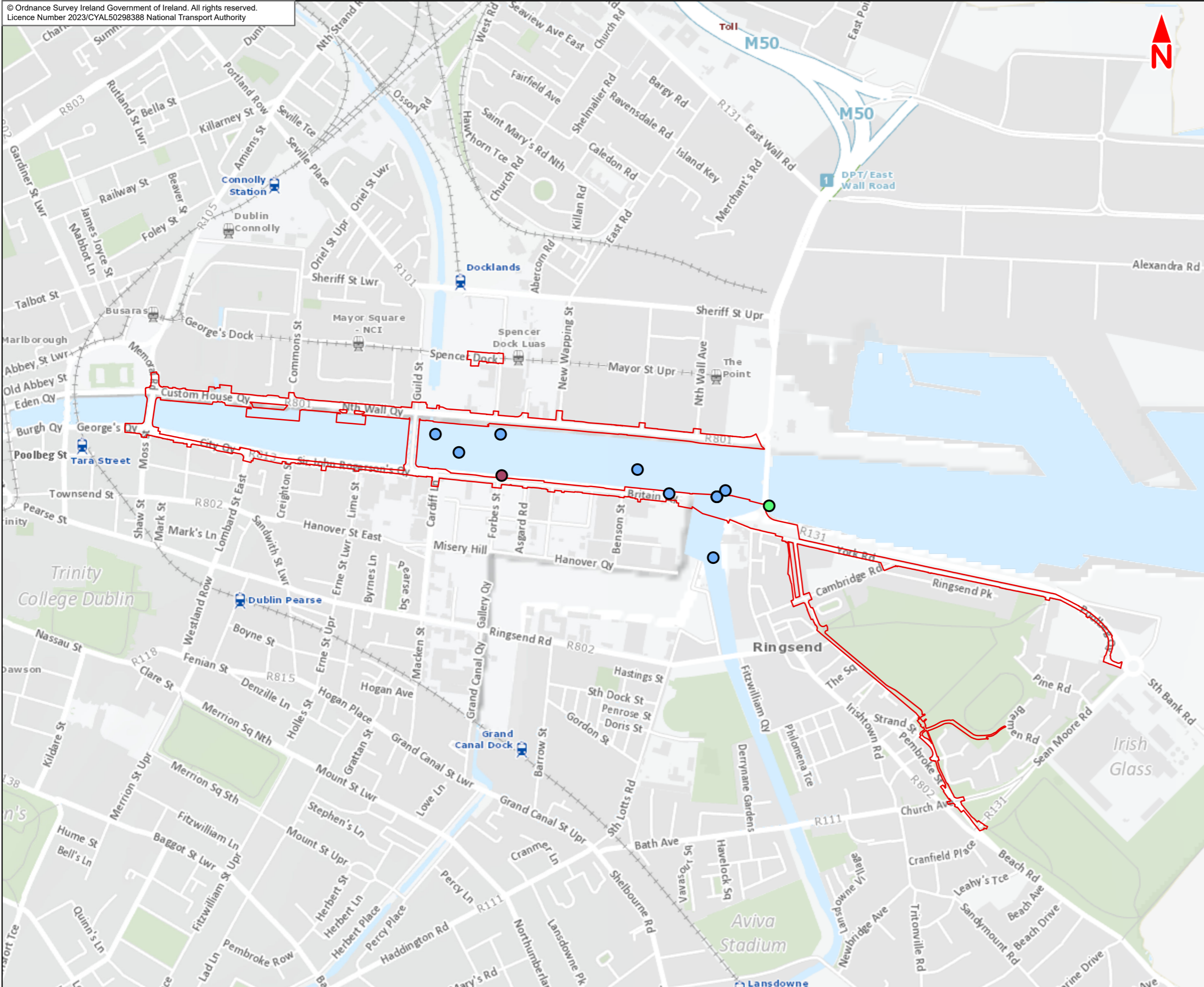
Drawn: EK | Checked: PW | Approved: DK  
QMS Code: \_\_\_\_\_

Programme Title: <b>BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS</b>			
Drawing Title: Ringsend to City Centre Core Bus Corridor Scheme Figure 12.8.3 Breeding Bird Survey Results: Sand Martin			
Drawing File Name: BCIDE-JAC-ENV_BD-0016_XX_00-DR-GG-0113	Sheet Number: 1 of 1	Status: A	Rev: M01

The background features a vibrant yellow field with abstract, overlapping shapes in dark blue, light blue, and teal. Several white circles of varying sizes are scattered throughout, some appearing as if they are part of the larger shapes. The overall style is modern and graphic.

**12.8.4**  
Breeding Bird Survey Results:  
Gulls





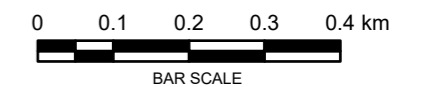
**Legend :**

- Ringsend to City Centre Core Bus Corridor Scheme

**Bird Species**

- Black-headed Gull
- Great black-backed Gull
- Herring Gull

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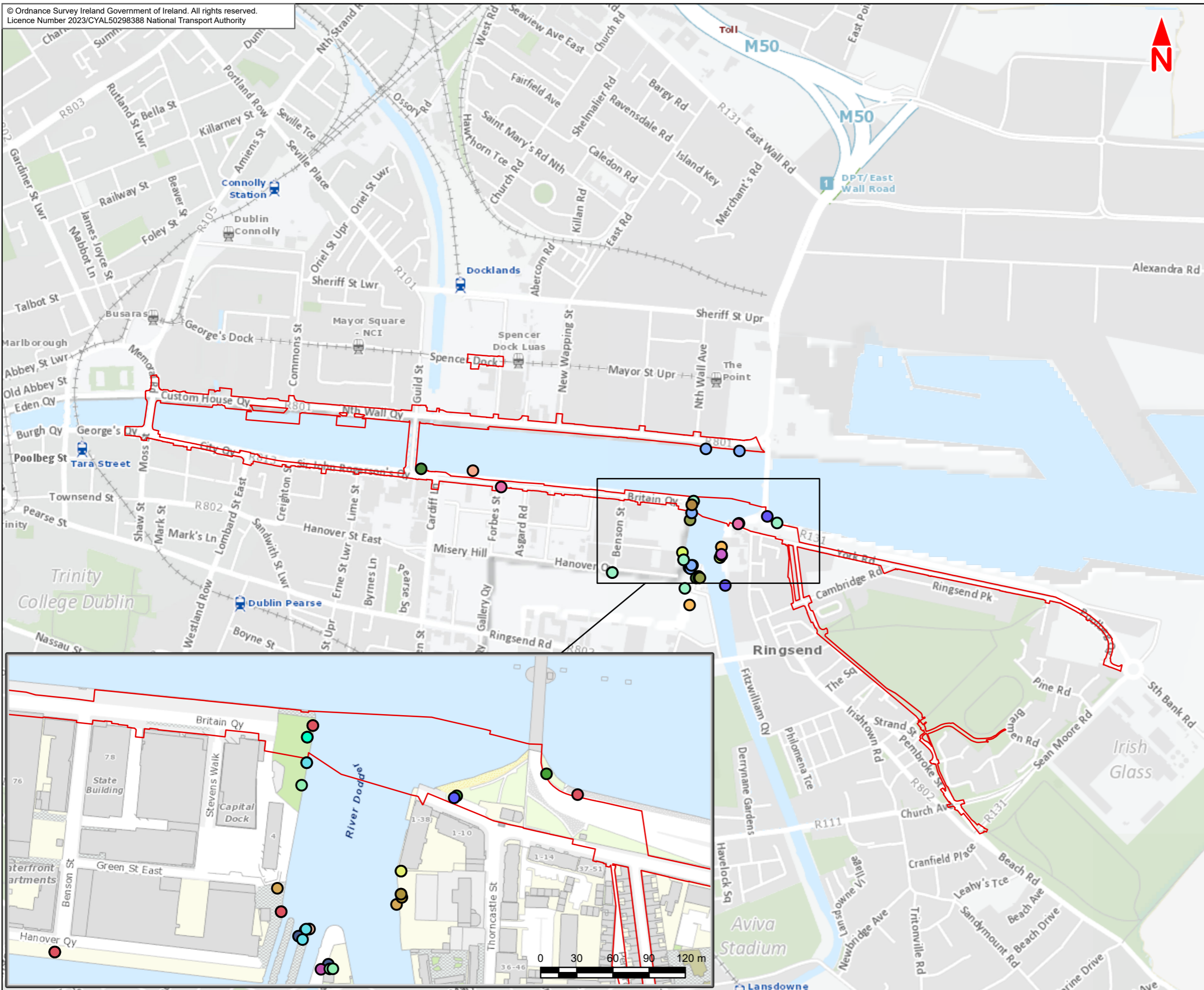
Client  
**NTA**  
Udarás Náisiúnta Iompair  
National Transport Authority

Consultant  
**JACOBS ARUP SYSTRA**

Programme Title <b>BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS</b>				
Drawing Title Ringsend to City Centre Core Bus Corridor Scheme Figure 12.8.4 Breeding Bird Survey Results: Gulls				
Date 13/04/2023	Scale @ A3 1:10 000	Drawn EK	Checked PW	Approved DK
Project Code BCIDE	Originator Code JAC	QMS Code		Drawing File Name BCIDE-JAC-ENV_BD-0016_XX_00-DR-GG-0114
Sheet Number 1 of 1		Status A	Rev M01	



**12.8.5**  
Breeding Bird Survey Results:  
Passerines



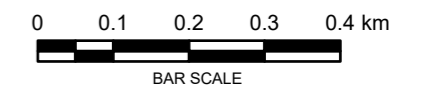
**Legend :**

- Ringsend to City Centre Core Bus Corridor Scheme

**Bird Species**

- Blackbird
- Dunnock
- Feral Pigeon
- Goldfinch
- Grey Wagtail
- Hooded Crow
- House Sparrow
- Jackdaw
- Magpie
- Pied Wagtail
- Rook
- Starling
- Wren

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Project Code BCIDE	Originator Code JAC	QMS Code		

Programme Title <b>BUSCONNECTS DUBLIN</b> <b>CORE BUS CORRIDORS INFRASTRUCTURE WORKS</b>				
Drawing Title Ringsend to City Centre Core Bus Corridor Scheme Figure 12.8.5 Breeding Bird Survey Results: Passerines				
Drawing File Name BCIDE-JAC-ENV_BD-0016_XX_00-DR-GG-0115	Sheet Number 1 of 1	Status A	Rev M01	

## 12.8.6

Breeding Bird Survey Results:

Other





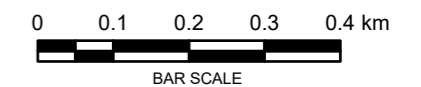
**Legend :**

- Ringsend to City Centre Core Bus Corridor Scheme

**Bird Species**

- Mallard

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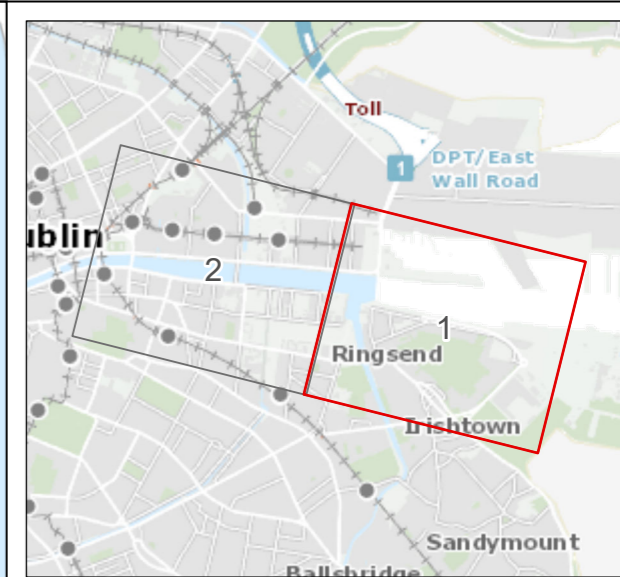
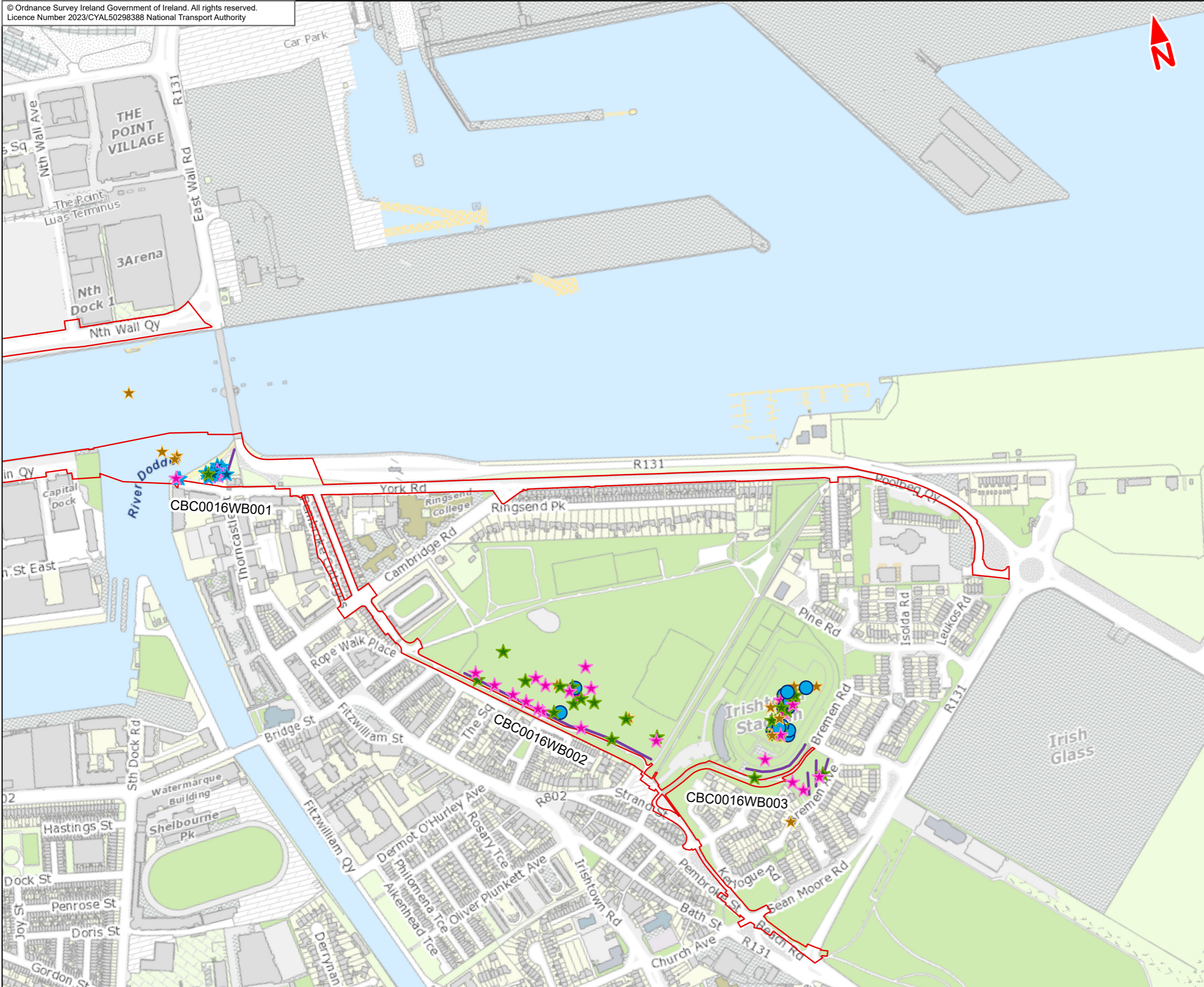
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Date 13/04/2023	Scale @ A3 1:10 000	Drawn EK	Checked PW	Approved DK
Project Code BCIDE	Originator Code JAC	QMS Code		

Programme Title <b>BUSCONNECTS DUBLIN</b> <b>CORE BUS CORRIDORS INFRASTRUCTURE WORKS</b>				
Drawing Title Ringsend to City Centre Core Bus Corridor Scheme Figure 12.8.6 Breeding Bird Survey Results: Other				
Drawing File Name BCIDE-JAC-ENV_BD-0016_XX_00-DR-GG-0116	Sheet Number 1 of 1	Status A	Rev M01	



**12.9.1**  
Wintering Bird Transect Survey  
Results



**Legend :**

- Ringsend to City Centre Core Bus Corridor Scheme
- Winter Bird Survey Transects

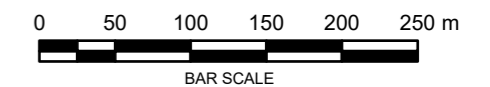
**BoCCI Red List Bird Species**

- Oystercatcher

**BoCCI Amber List Bird Species**

- ★ Black-headed gull
- ★ Common gull
- ★ Herring gull
- ★ Lesser Black-backed gull
- ★ Light-bellied Brent goose
- ★ Mute swan
- ★ Whooper swan

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National Transport Authority

Date: 06/04/2023  
Scale @ A3: 1:5 000

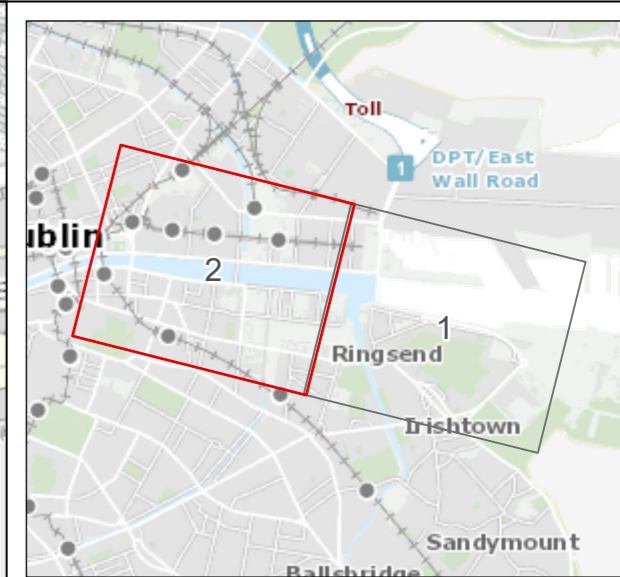
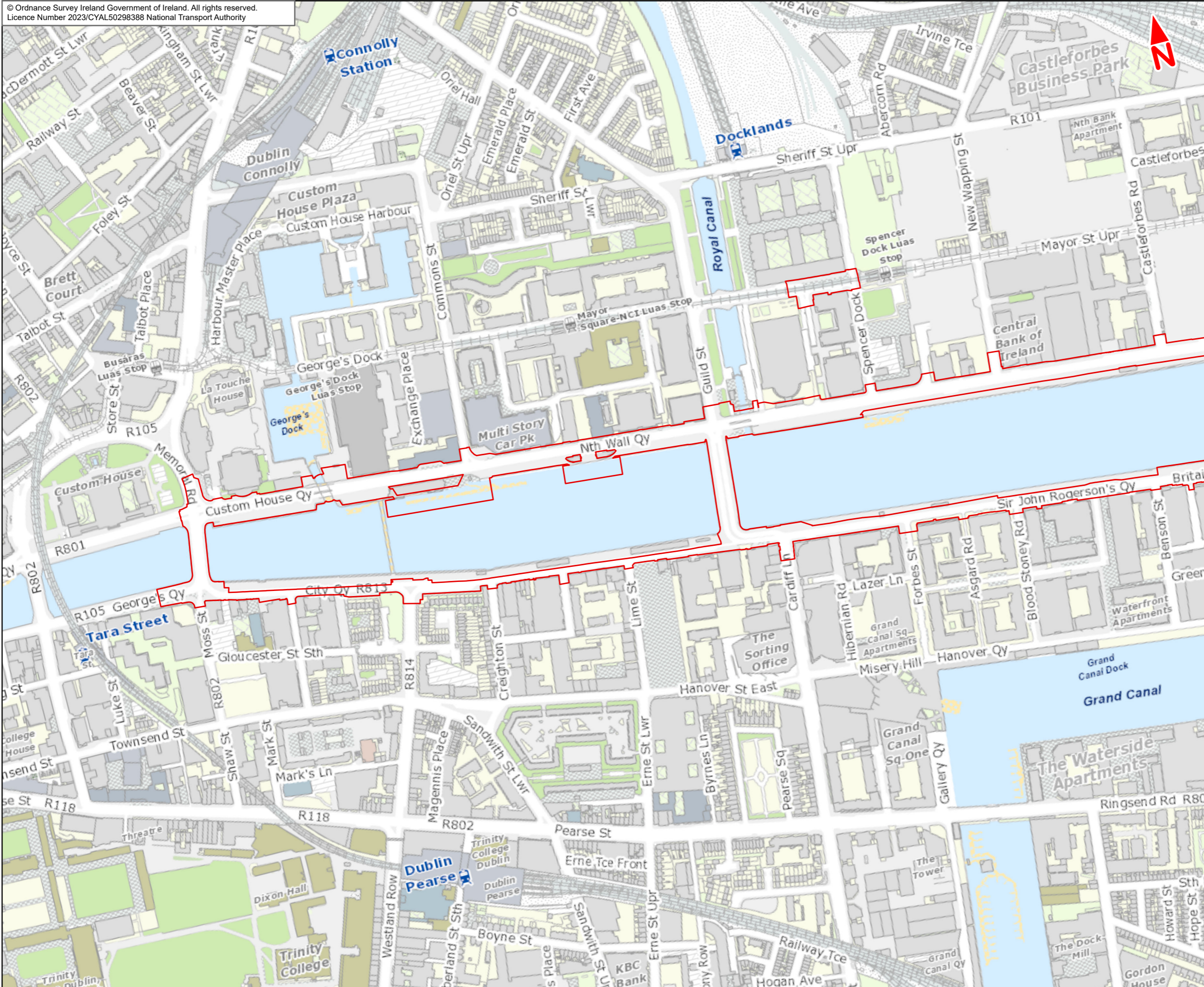
Project Code: BCIDE  
Originator Code: JAC

Consultant  
**JACOBS ARUP SYSTRA**

Drawn: EK  
Checked: PW  
Approved: DK

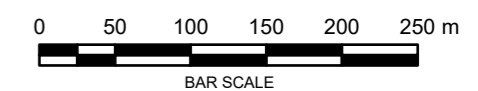
QMS Code

Programme Title <b>BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS</b>			
Drawing Title Ringsend to City Centre Core Bus Corridor Scheme 12.9.1 Wintering Bird Transect Survey Results			
Drawing File Name BCIDE-JAC-ENV BD-0016_XX_00-DR-GG-0601	Sheet Number 1 of 2	Status A	Rev M01



**Legend :**  
 Ringsend to City Centre Core Bus Corridor Scheme

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Consultant  
**JACOBS**  
**ARUP SYSTRA**

Programme Title		<b>BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS</b>		
Drawing Title		Ringsend to City Centre Core Bus Corridor Scheme 12.9.1 Wintering Bird Transect Survey Results		
Date	Scale @ A3	Drawn	Checked	Approved
06/04/2023	1:5 000	EK	PW	DK
Project Code	Originator Code	QMS Code		
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Drawing File Name	Sheet Number	Status	Rev	
BCIDE-JAC-ENV BD-0016_XX_00-DR-GG-0602	2 of 2	A	M01	

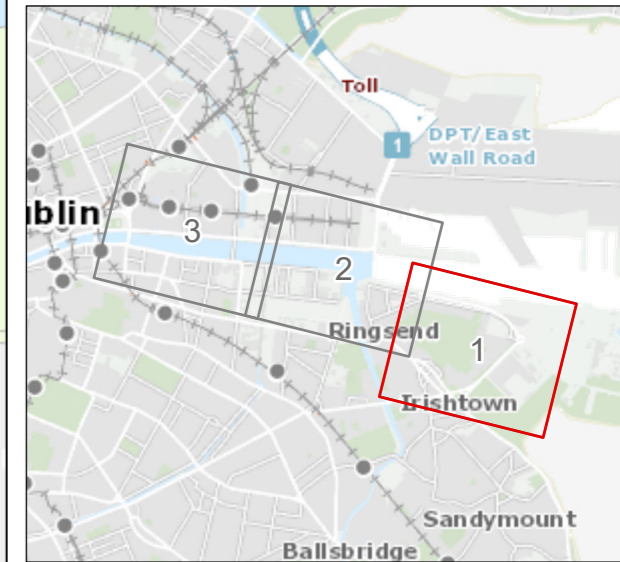


The background of the slide is a vibrant yellow. It is decorated with several abstract, organic shapes in shades of blue and teal. These shapes are interconnected and layered, creating a sense of depth and movement. Scattered throughout the composition are several white circles of varying sizes, some of which are partially enclosed by the blue and teal shapes, resembling rivets or bolts on a mechanical surface.

## 12.9.2

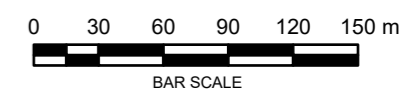
Wintering Bird Vantage Point Survey

Results: Light-bellied Brent Goose



**Legend :**  
 Ringsend to City Centre Core Bus Corridor Scheme  
 Flight Line  
 Light-bellied Brent Goose

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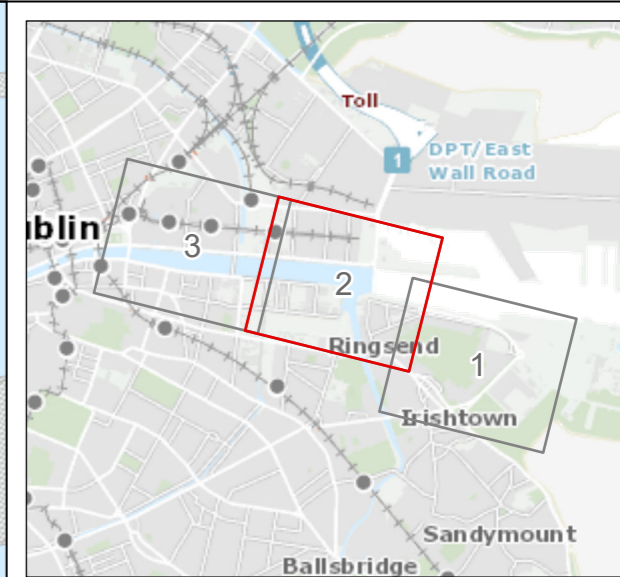
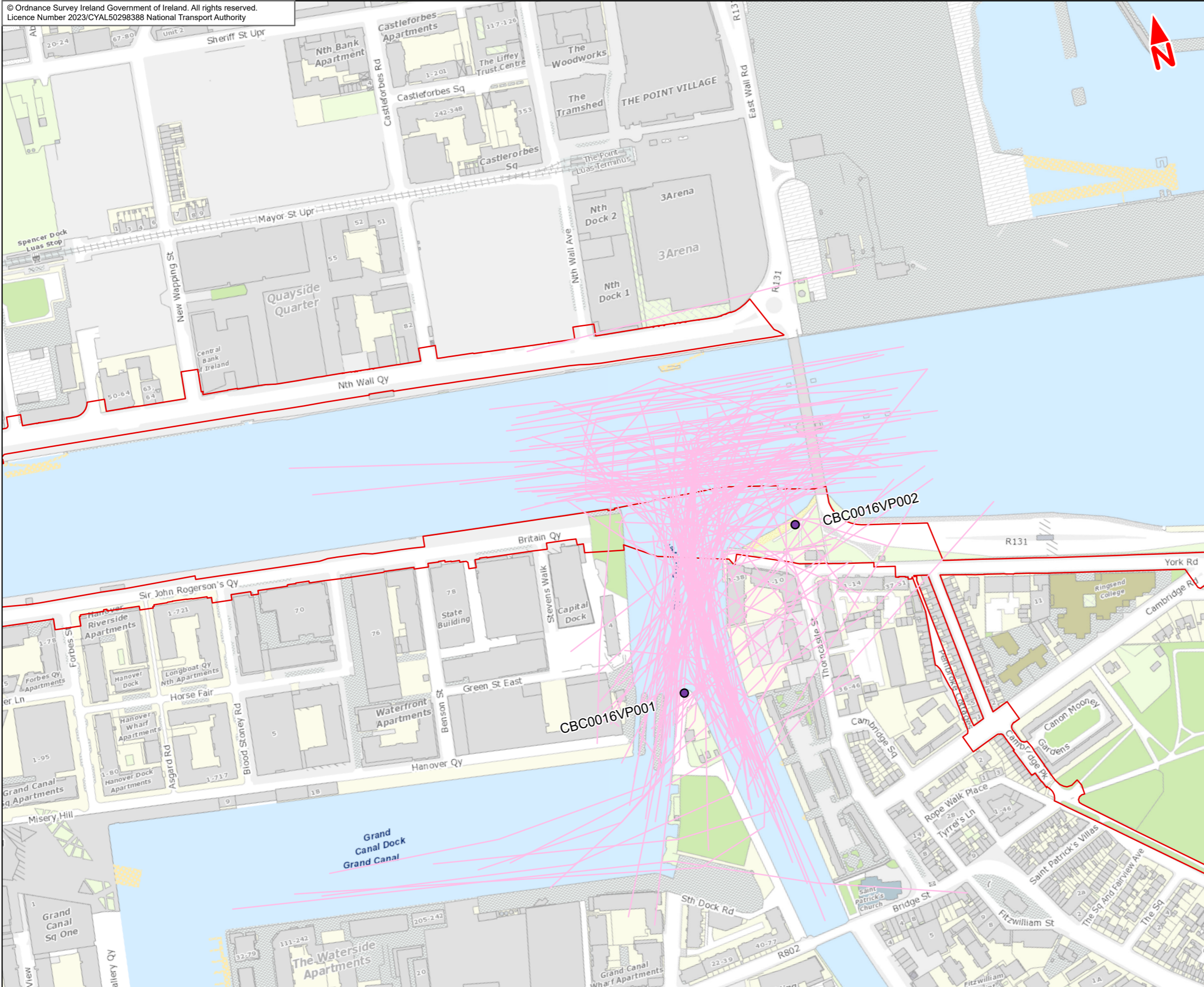
Rev	Date	Drn	Chk'd	App'd	Description
M01	Apr 2023	EK	PW	DK	ISSUE FOR PHASE 4 : PLANNING

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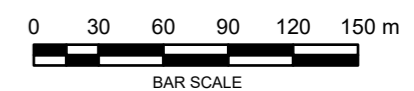
Programme Title <b>BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS</b>				
Drawing Title Ringsend to City Centre Core Bus Corridor Scheme Figure 12.9.2 Wintering Bird Vantage Point Survey Results - Light-bellied Brent Goose				
Drawing File Name BCIDE-JAC-ENV BD-0016_XX_00-DR-GG-0901	Sheet Number 1 of 3	Status A	Rev M01	

Date 11/04/2023	Scale @ A3 1:3 500	Drawn EK	Checked PW	Approved DK
Project Code BCIDE	Originator Code JAC	QMS Code		



- Legend :**
- Ringsend to City Centre Core Bus Corridor Scheme
  - Wintering Birds Vantage Points
- Flight Line**
- Light-bellied Brent Goose

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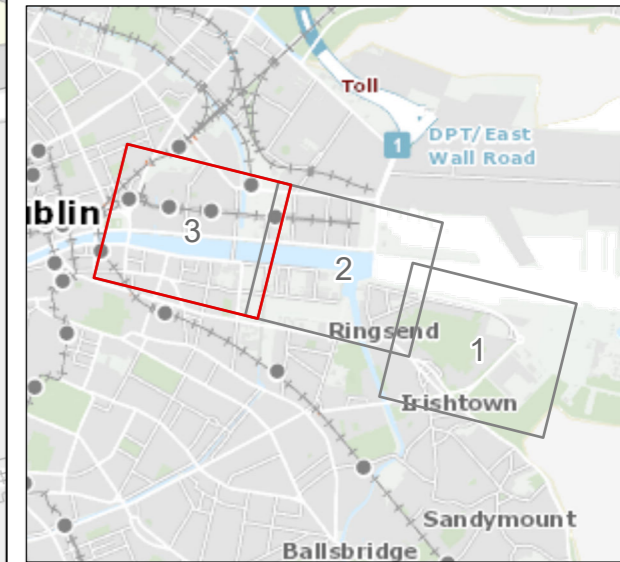
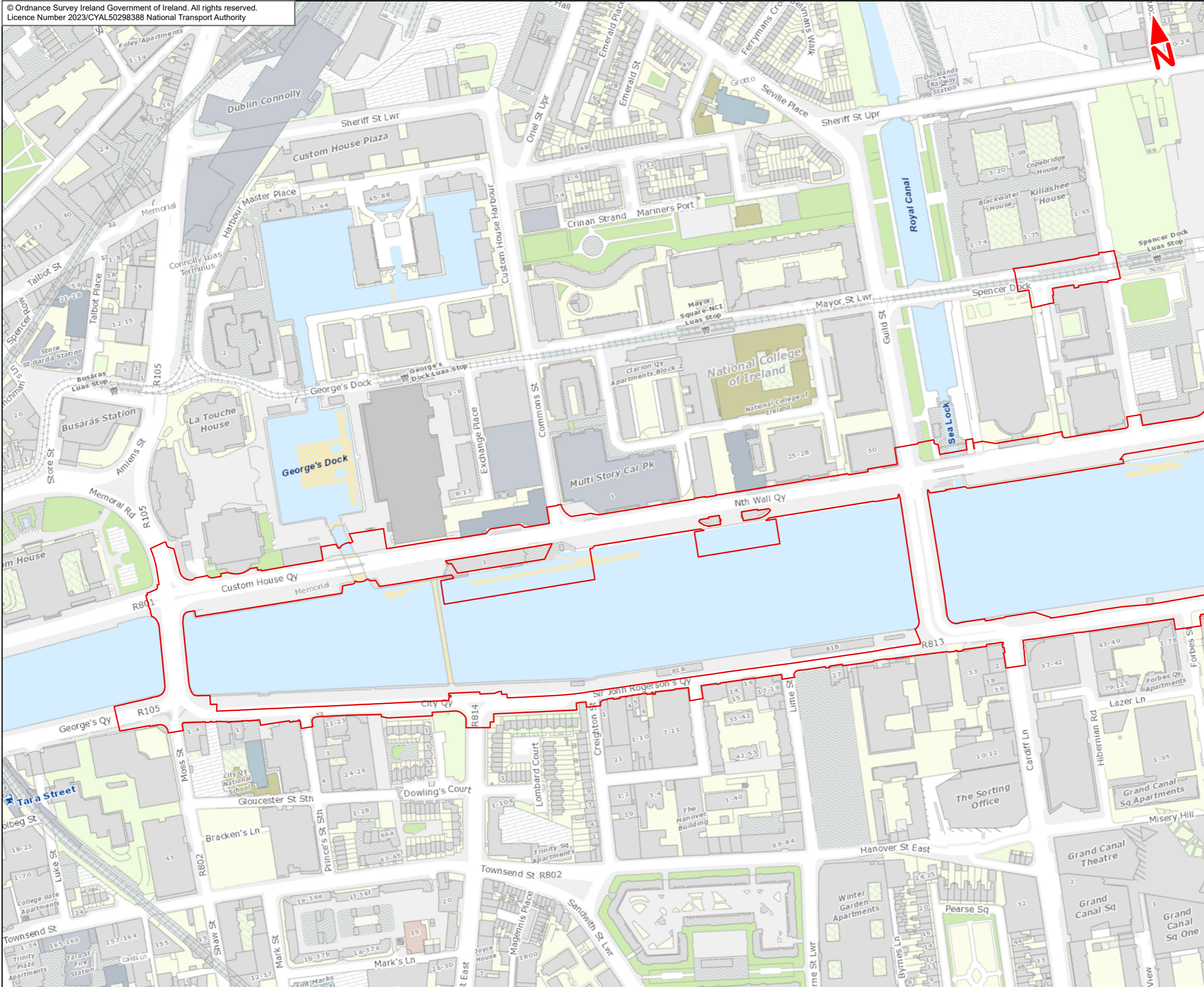
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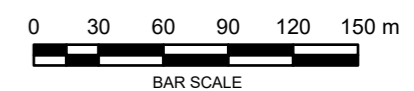
Date	Scale @ A3	Drawn	Checked	Approved
11/04/2023	1:3 500	EK	PW	DK
Project Code	Originator Code	QMS Code		
BCIDE	JAC			

<b>Programme Title</b> BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS				
<b>Drawing Title</b> Ringsend to City Centre Core Bus Corridor Scheme Figure 12.9.2 Wintering Bird Vantage Point Survey Results - Light-bellied Brent Goose				
Drawing File Name	Sheet Number	Status	Rev	
BCIDE-JAC-ENV BD-0016_XX 00-DR-GG-0902	2 of 3	A	M01	



**Legend :**  
 Ringsend to City Centre  
 Core Bus Corridor Scheme

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 Udarás Náisiúnta Iompair  
 National Transport Authority

Consultant  
**JACOBS**  
**ARUP SYSTRA**

Programme Title  
**BUSCONNECTS DUBLIN**  
**CORE BUS CORRIDORS INFRASTRUCTURE WORKS**

Drawing Title  
 Ringsend to City Centre Core Bus Corridor Scheme  
 Figure 12.9.2  
 Wintering Bird Vantage Point Survey Results - Light-bellied Brent Goose

Date: 11/04/2023  
 Scale @ A3: 1:3 500  
 Drawn: EK  
 Checked: PW  
 Approved: DK

Project Code: BCIDE  
 Originator Code: JAC  
 QMS Code:

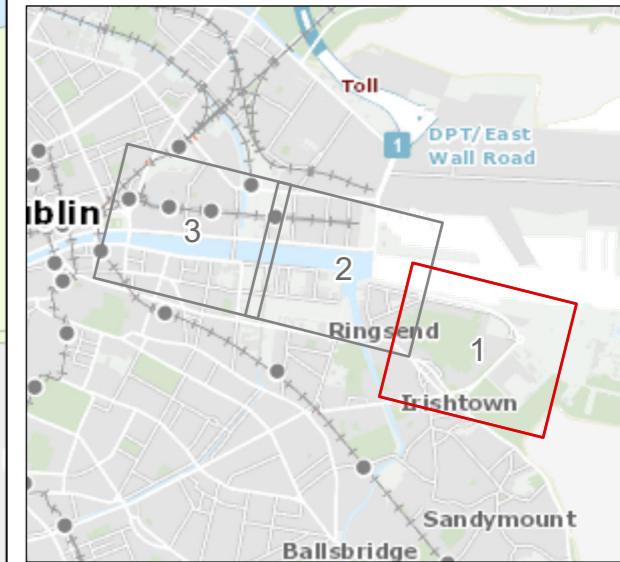
Drawing File Name: BCIDE-JAC-ENV\_BD-0016\_XX\_00-DR-GG-0903  
 Sheet Number: 3 of 3  
 Status: A  
 Rev: M01



**12.9.3.1**

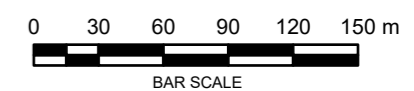
Wintering Bird Vantage Point

Survey Results: Gulls



**Legend :**  
 Ringsend to City Centre  
 Core Bus Corridor Scheme

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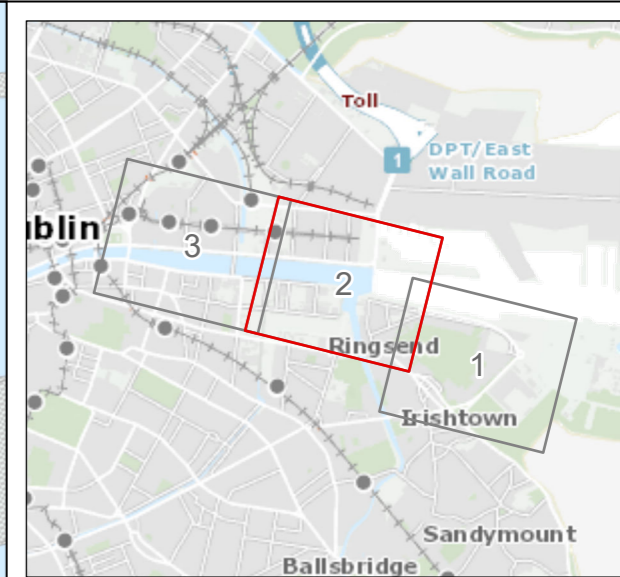
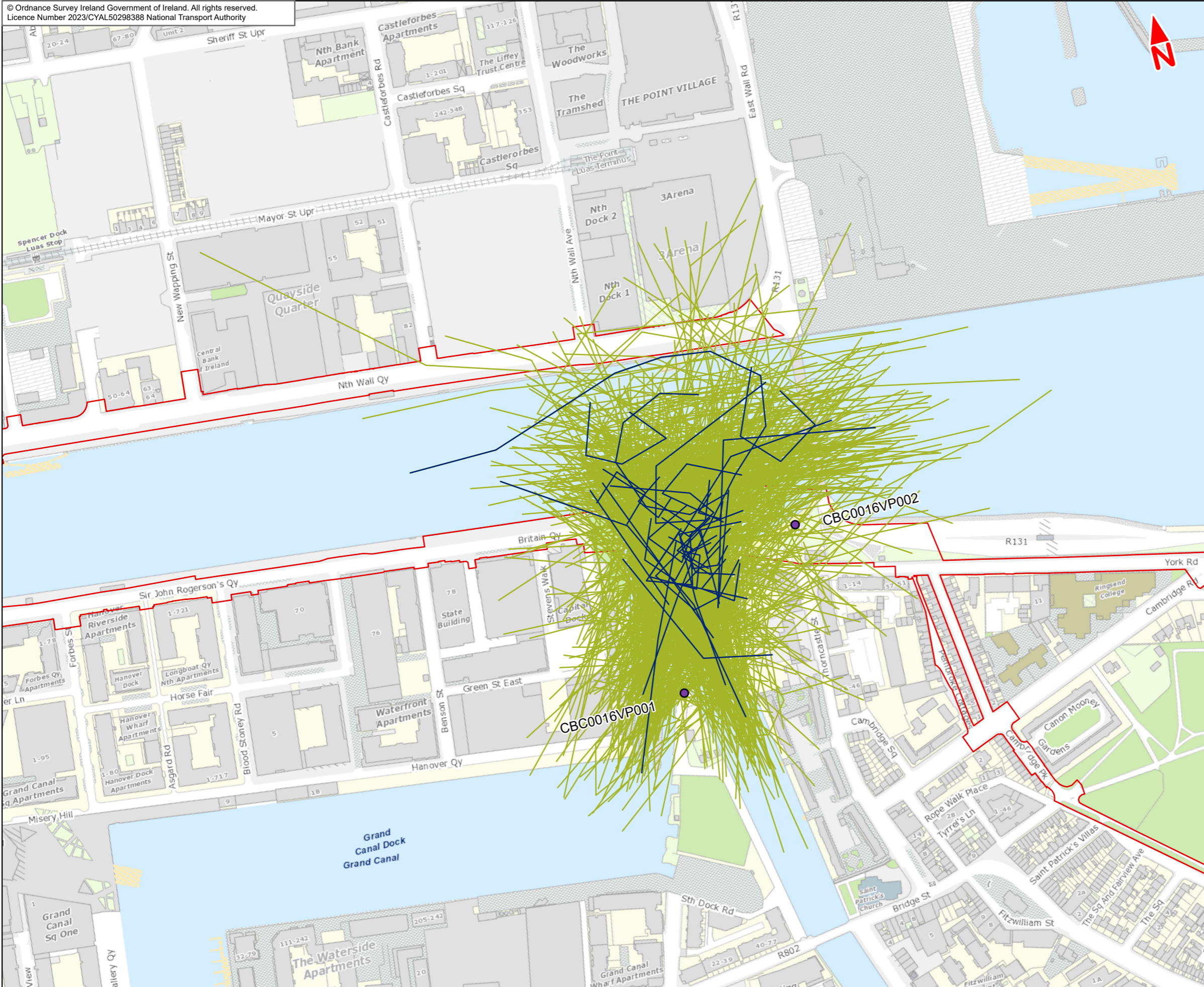


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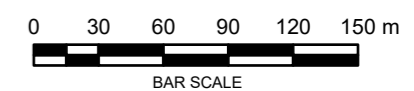
Consultant  
**JACOBS**  
**ARUP SYSTRA**

Programme Title <b>BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS</b>				
Drawing Title Ringsend to City Centre Core Bus Corridor Scheme Figure 12.9.3.1 Wintering Bird Vantage Point Survey Results - Gulls				
Date 11/04/2023	Scale @ A3 1:3 500	Drawn EK	Checked PW	Approved DK
Project Code BCIDE	Originator Code JAC	QMS Code		Drawing File Name BCIDE-JAC-ENV_BD-0016_XX_00-DR-GG-0911
Sheet Number 1 of 3		Status A	Rev M01	



- Legend :**
- Ringsend to City Centre Core Bus Corridor Scheme
  - Wintering Birds Vantage Points
  - Flight Line**
  - Herring Gull
  - Dominant Flight Lines

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National Transport Authority

Consultant: **JACOBS ARUP SYSTRA**

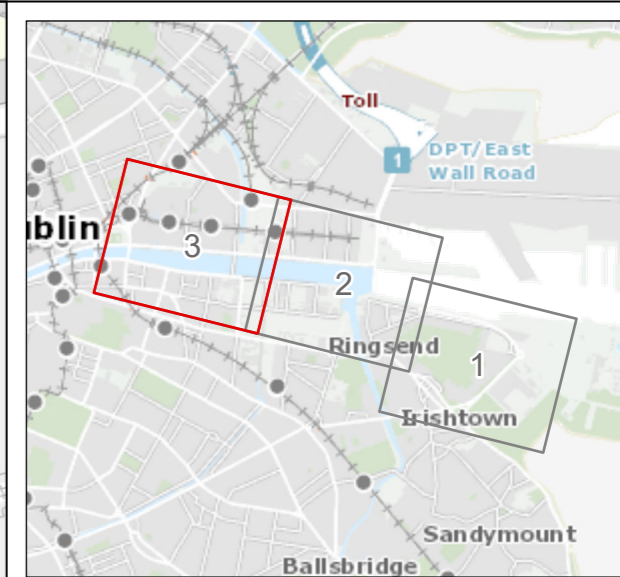
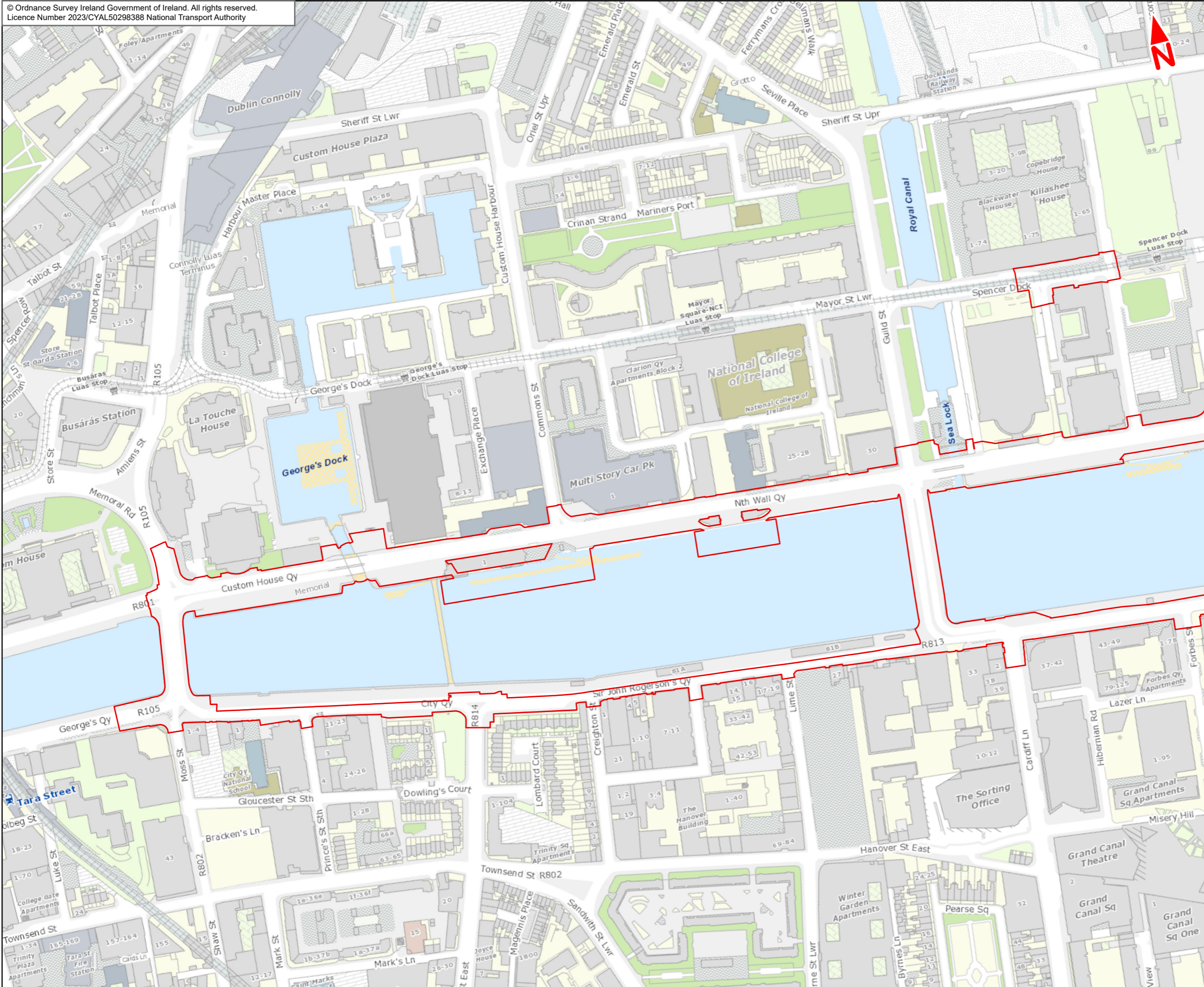
Date: 11/04/2023 | Scale @ A3: 1:3 500

Project Code: BCIDE | Originator Code: JAC

Drawn: EK | Checked: PW | Approved: DK

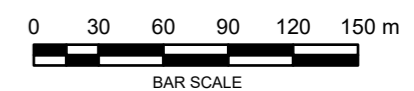
QMS Code: \_\_\_\_\_

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Drawing Title: Ringsend to City Centre Core Bus Corridor Scheme Figure 12.9.3.1 Wintering Bird Vantage Point Survey Results - Gulls			
Drawing File Name: BCIDE-JAC-ENV_BD-0016_XX_00-DR-GG-0912	Sheet Number: 2 of 3	Status: A	Rev: M01



**Legend :**  
 Ringsend to City Centre  
 Core Bus Corridor Scheme

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Consultant  
**JACOBS**  
**ARUP SYSTRA**

Programme Title  
**BUSCONNECTS DUBLIN  
 CORE BUS CORRIDORS INFRASTRUCTURE WORKS**

Drawing Title  
 Ringsend to City Centre Core Bus Corridor Scheme  
 Figure 12.9.3.1  
 Wintering Bird Vantage Point Survey Results - Gulls

Date	11/04/2023	Scale @ A3	1:3 500	Drawn	EK	Checked	PW	Approved	DK
Project Code	BCIDE	Originator Code	JAC	QMS Code					

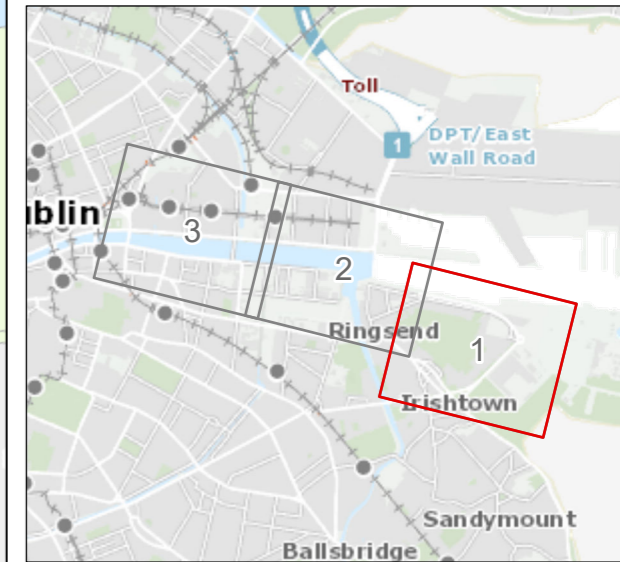
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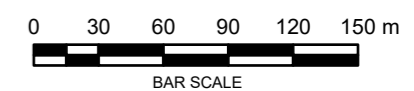
## 12.9.3.2

Wintering Bird Vantage Point  
Survey Results: (Black-headed)  
Gulls



**Legend :**  
 Ringsend to City Centre  
 Core Bus Corridor Scheme

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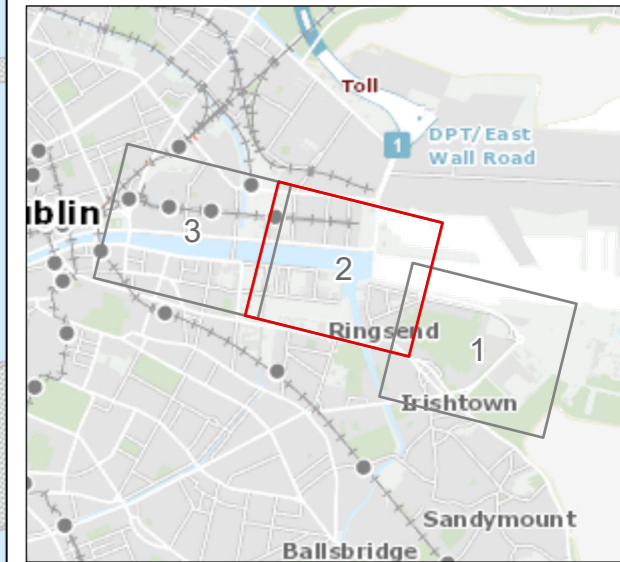
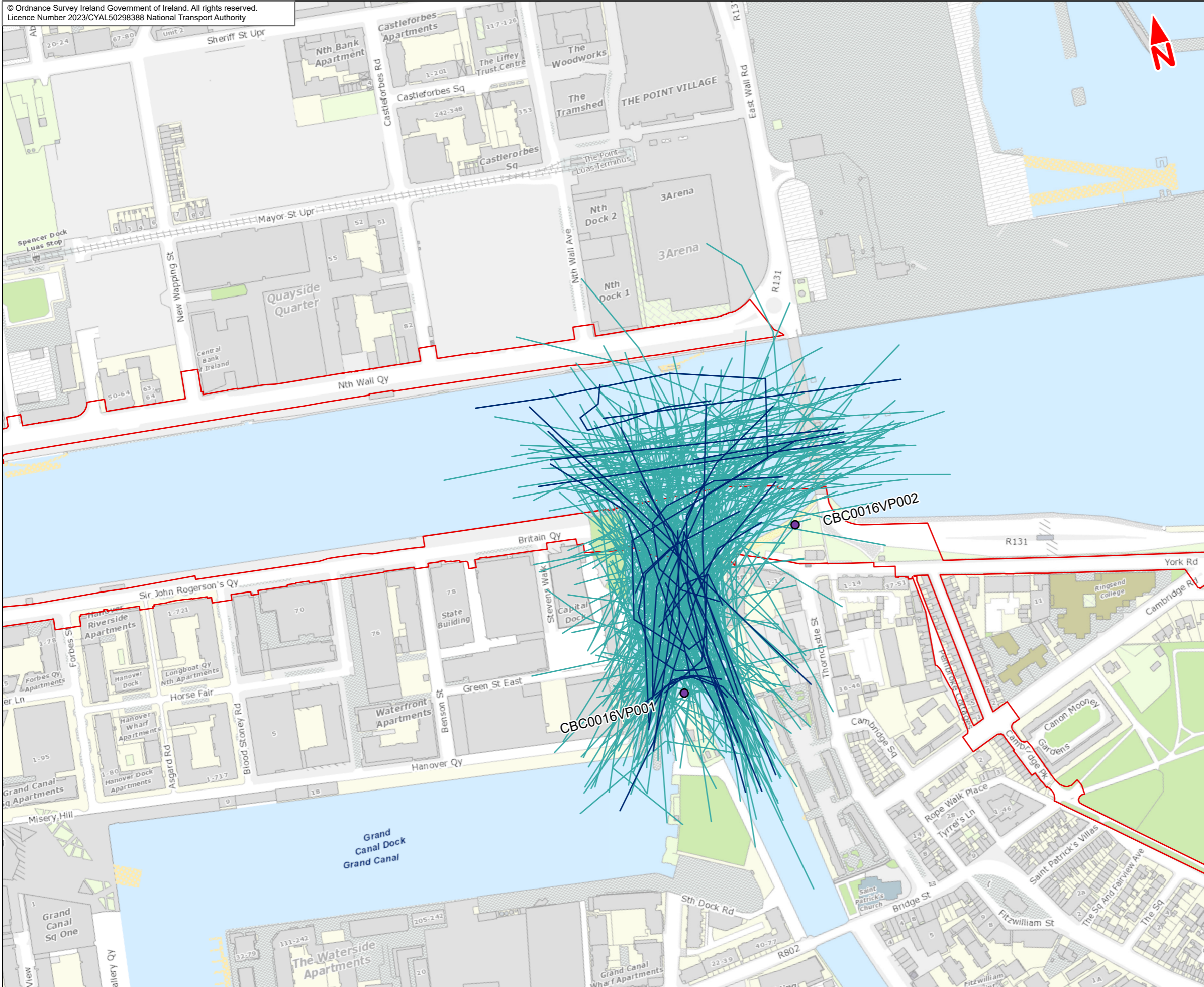


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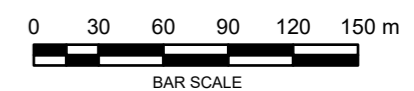
Consultant  
**JACOBS**  
**ARUP SYSTRA**

Programme Title <b>BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS</b>				
Drawing Title Ringsend to City Centre Core Bus Corridor Scheme Figure 12.9.3.2 Wintering Bird Vantage Point Survey Results - Gulls				
Date 11/04/2023	Scale @ A3 1:3 500	Drawn EK	Checked PW	Approved DK
Project Code BCIDE	Originator Code JAC	QMS Code		Drawing File Name BCIDE-JAC-ENV BD-0016_XX_00-DR-GG-0914
Sheet Number 1 of 3		Status A	Rev M01	



- Legend :**
- Ringsend to City Centre Core Bus Corridor Scheme
  - Wintering Birds Vantage Points
- Flight Line**
- Black-headed Gull
  - Dominant Flight Lines

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Udarás Náisiúnta Iompair  
National Transport Authority

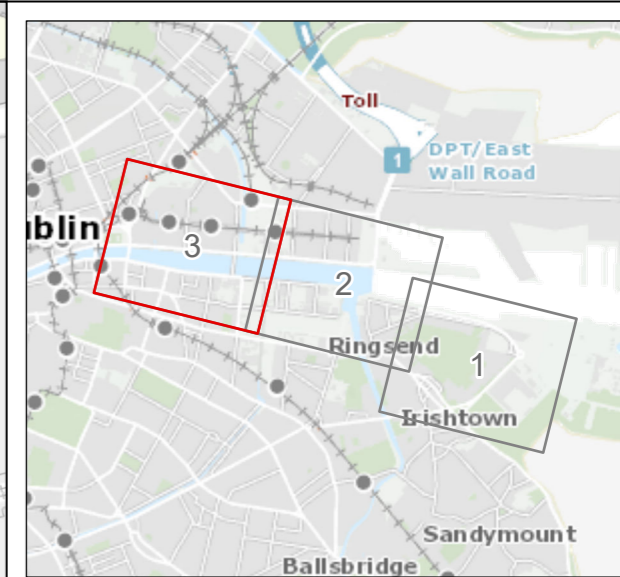
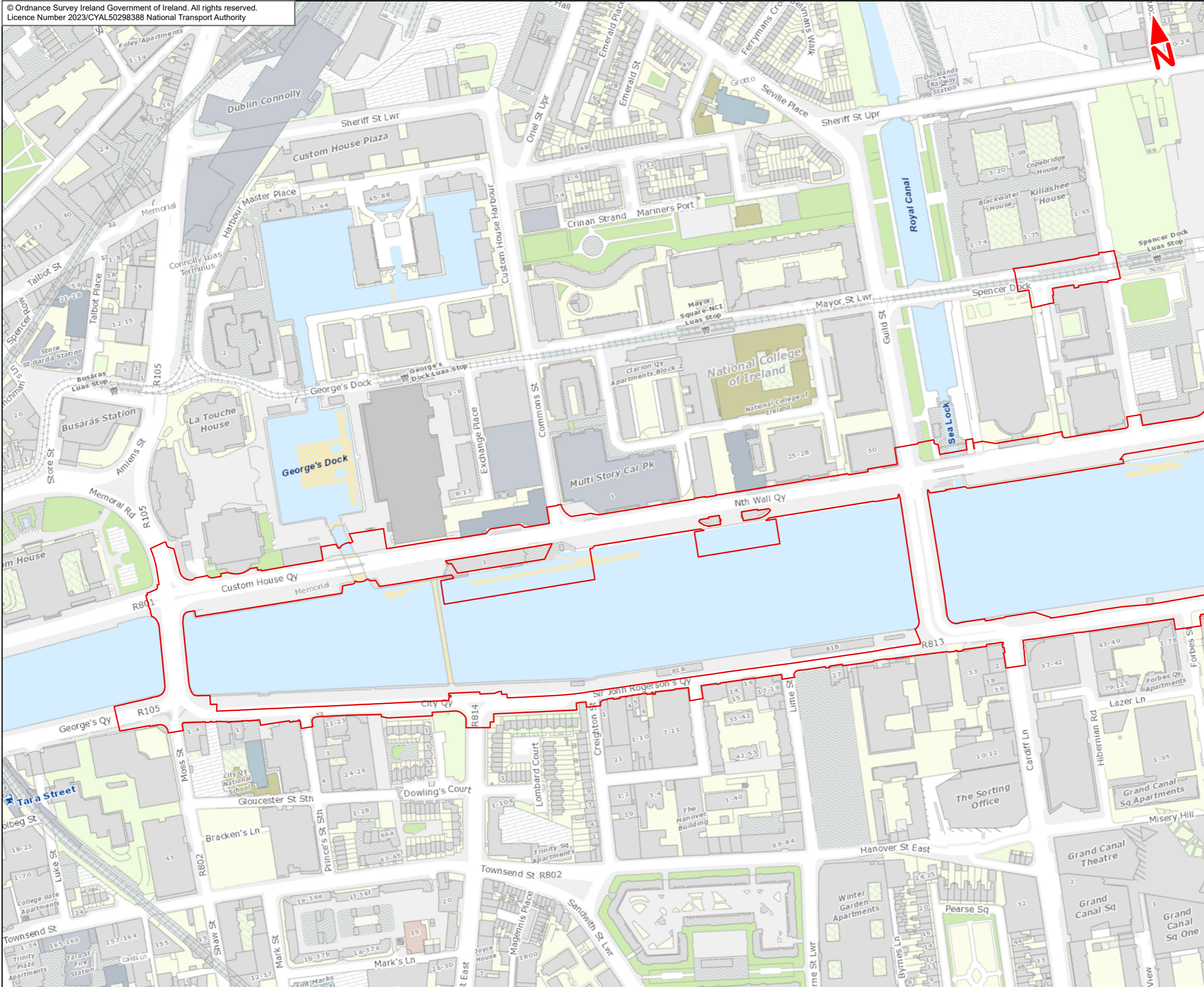
Consultant: **JACOBS ARUP SYSTRA**

Date: 11/04/2023  
Scale @ A3: 1:3 500

Project Code: BCIDE  
Originator Code: JAC

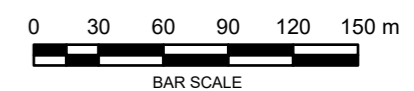
Drawn: EK  
Checked: PW  
Approved: DK

Programme Title: <b>BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS</b>			
Drawing Title: Ringsend to City Centre Core Bus Corridor Scheme Figure 12.9.3.2 Wintering Bird Vantage Point Survey Results - Gulls			
Drawing File Name: BCIDE-JAC-ENV_BD-0016_XX_00-DR-GG-0915	Sheet Number: 2 of 3	Status: A	Rev: M01



**Legend :**  
 Ringsend to City Centre  
 Core Bus Corridor Scheme

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Consultant  
**JACOBS**  
**ARUP SYSTRA**

Programme Title  
**BUSCONNECTS DUBLIN  
 CORE BUS CORRIDORS INFRASTRUCTURE WORKS**

Drawing Title  
 Ringsend to City Centre Core Bus Corridor Scheme  
 Figure 12.9.3.2  
 Wintering Bird Vantage Point Survey Results - Gulls

Date	11/04/2023	Scale @ A3	1:3 500	Drawn	EK	Checked	PW	Approved	DK
Project Code	BCIDE	Originator Code	JAC	QMS Code					

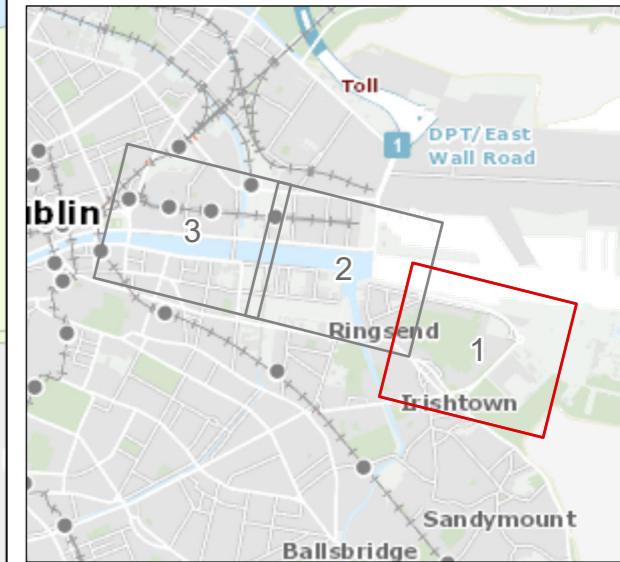
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Sheet Number	3 of 3	Status	A	Rev	M01
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### 12.9.3.3

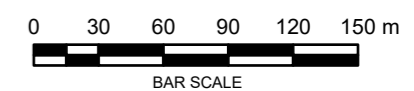
Wintering Bird Vantage Point  
Survey Results: (Other) Gulls





**Legend :**  
 Ringsend to City Centre  
 Core Bus Corridor Scheme

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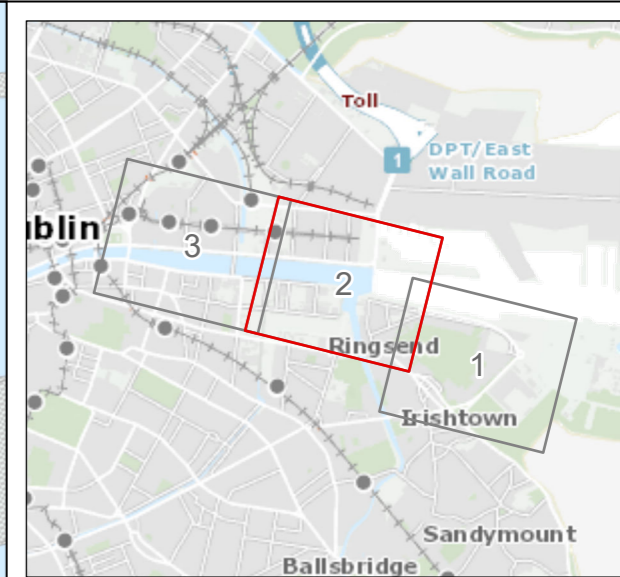
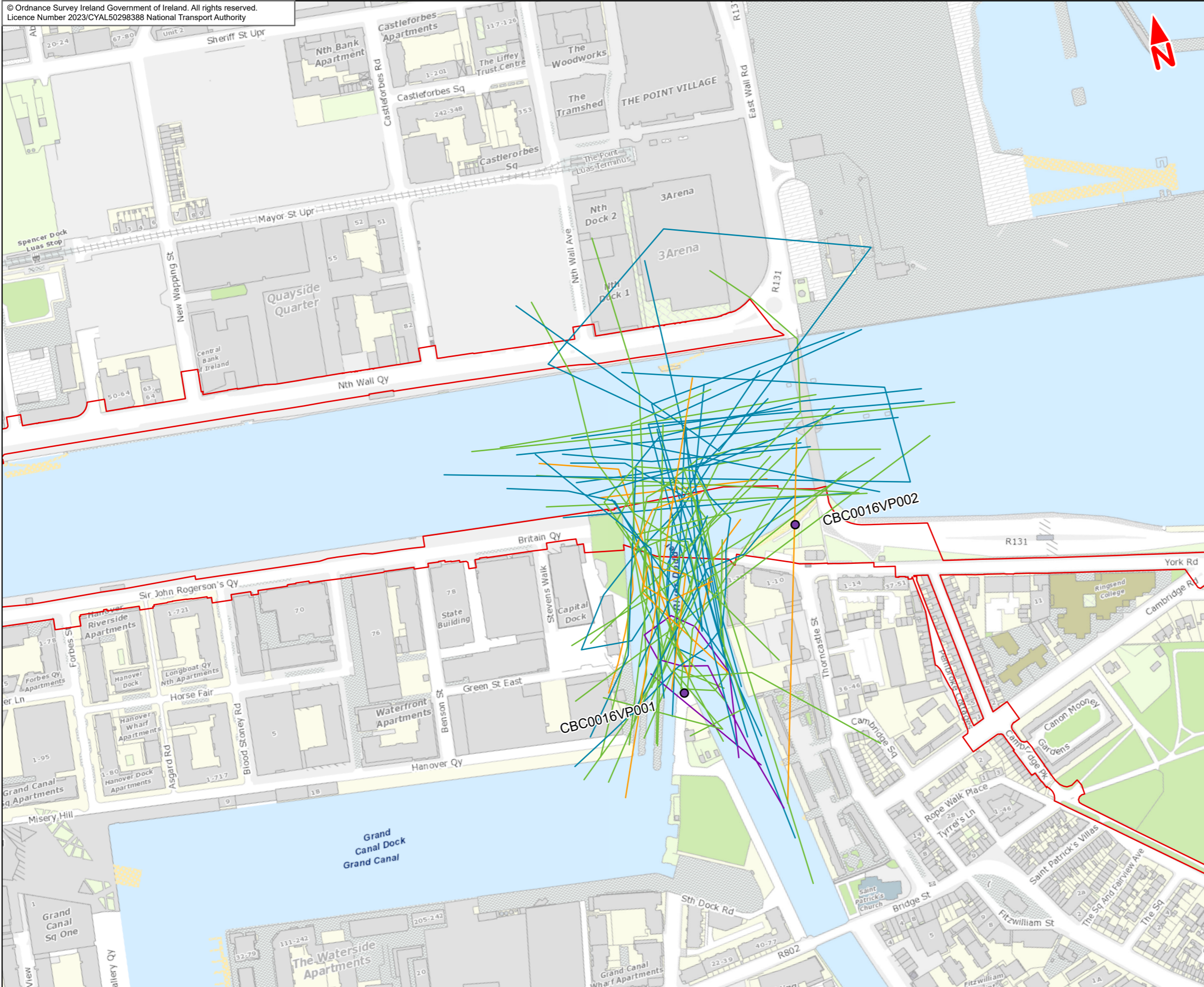


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Consultant  
**JACOBS**  
**ARUP SYSTRA**

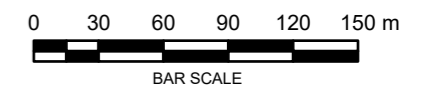
Programme Title <b>BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS</b>				
Drawing Title Ringsend to City Centre Core Bus Corridor Scheme Figure 12.9.3.3 Wintering Bird Vantage Point Survey Results - Gulls				
Date 11/04/2023	Scale @ A3 1:3 500	Drawn EK	Checked PW	Approved DK
Project Code BCIDE	Originator Code JAC	QMS Code		Drawing File Name BCIDE-JAC-ENV_BD-0016_XX_00-DR-GG-0917
Sheet Number 1 of 3		Status A	Rev M01	



**Legend :**

- Ringsend to City Centre Core Bus Corridor Scheme
- Wintering Birds Vantage Points
- Flight Line**
- Common Gull
- Great Black-backed Gull
- Icelandic Gull
- Lesser Black-backed Gull

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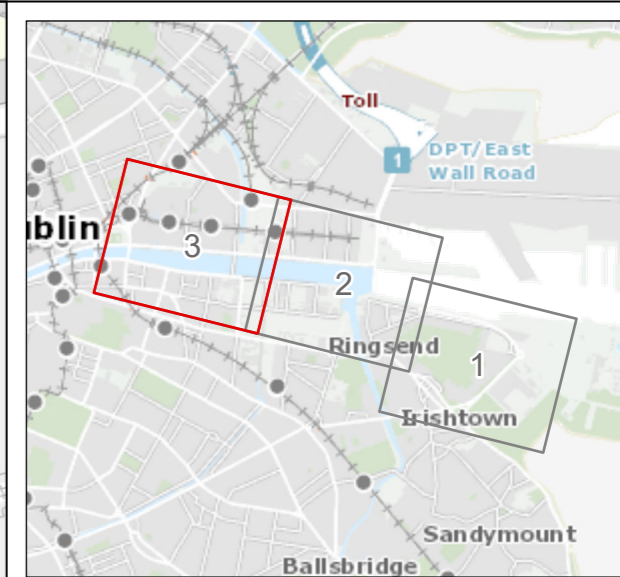
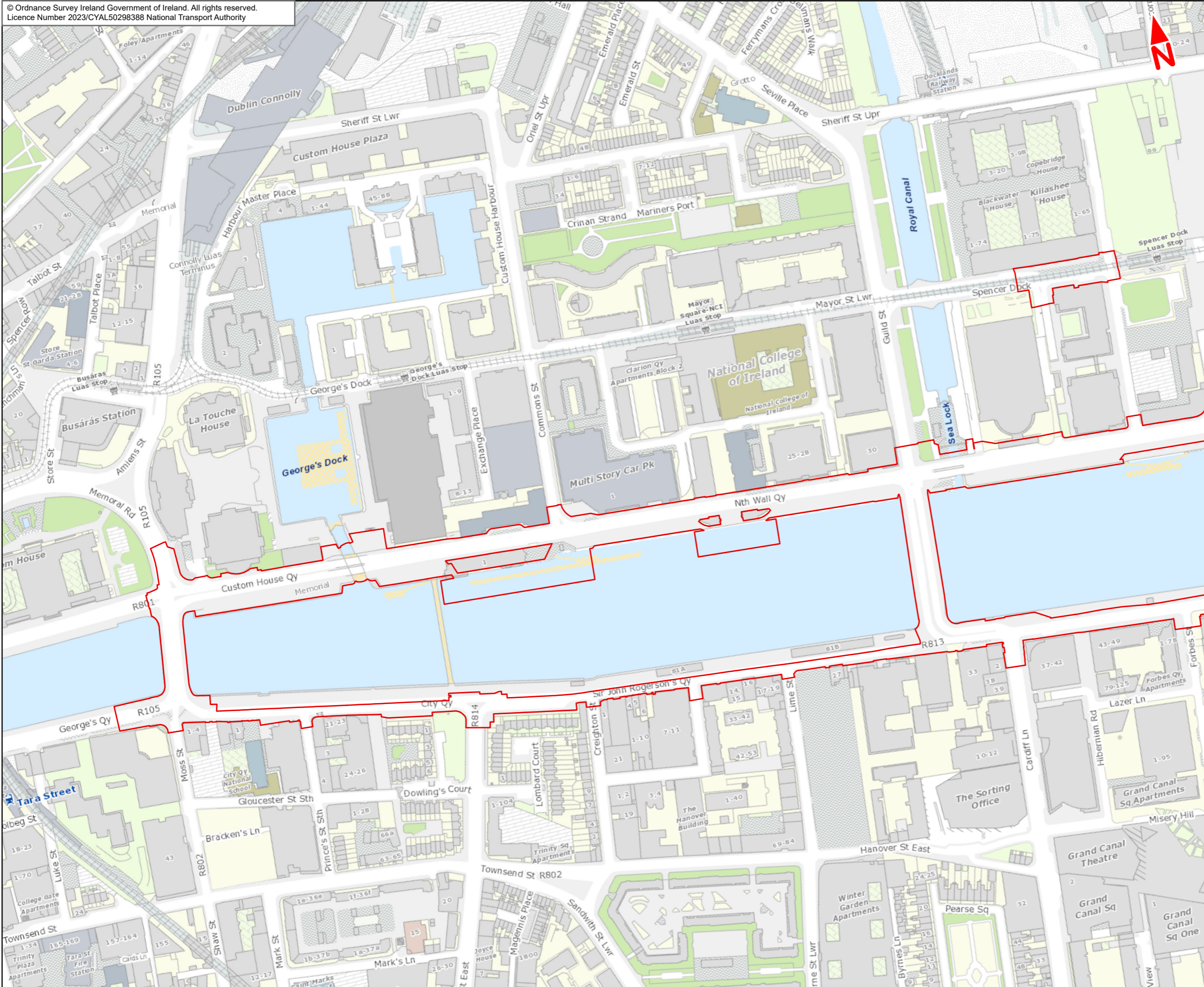
Client: **NTA**  
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National Transport Authority

Consultant: **JACOBS ARUP SYSTRA**

Date: 11/04/2023 | Scale @ A3: 1:3 500  
 Project Code: BCIDE | Originator Code: JAC

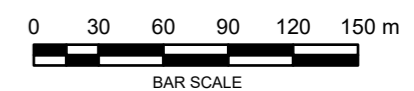
Drawn: EK | Checked: PW | Approved: DK

Programme Title: <b>BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS</b>			
Drawing Title: Ringsend to City Centre Core Bus Corridor Scheme Figure 12.9.3.3 Wintering Bird Vantage Point Survey Results - Gulls			
Drawing File Name: BCIDE-JAC-ENV BD-0016_XX_00-DR-GG-0918	Sheet Number: 2 of 3	Status: A	Rev: M01



**Legend :**  
 Ringsend to City Centre  
 Core Bus Corridor Scheme

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Consultant  
**JACOBS**  
**ARUP SYSTRA**

Programme Title <b>BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS</b>				
Drawing Title Ringsend to City Centre Core Bus Corridor Scheme Figure 12.9.3.3 Wintering Bird Vantage Point Survey Results - Gulls				
Drawing File Name BCIDE-JAC-ENV BD-0016_XX_00-DR-GG-0919	Sheet Number 3 of 3	Status A	Rev M01	

Date 11/04/2023	Scale @ A3 1:3 500	Drawn EK	Checked PW	Approved DK
Project Code BCIDE	Originator Code JAC	QMS Code		

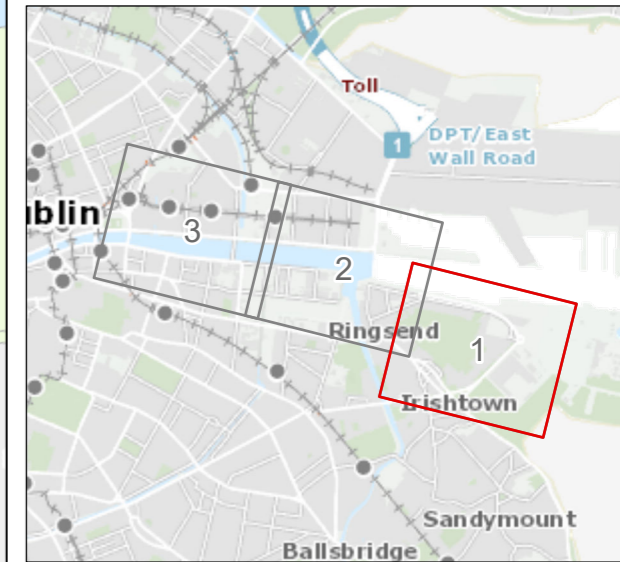


The background of the slide is a vibrant yellow. It is decorated with several abstract, organic shapes in shades of blue and teal. These shapes are interconnected and layered, creating a sense of depth and movement. Interspersed among these shapes are several white circles of varying sizes, some of which are partially enclosed by the blue and teal forms. The overall aesthetic is modern and graphic.

**12.9.4**

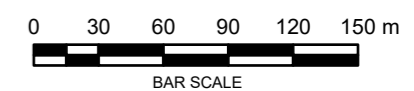
Wintering Bird Vantage Point

Survey Results: Waders



**Legend :**  
 Ringsend to City Centre Core Bus Corridor Scheme

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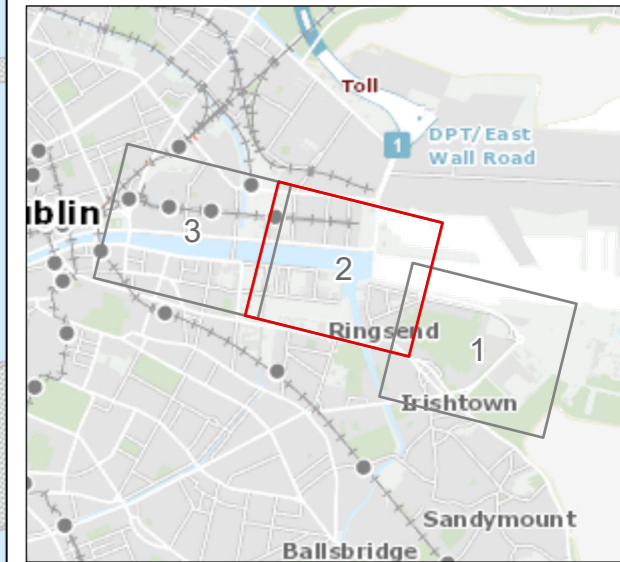
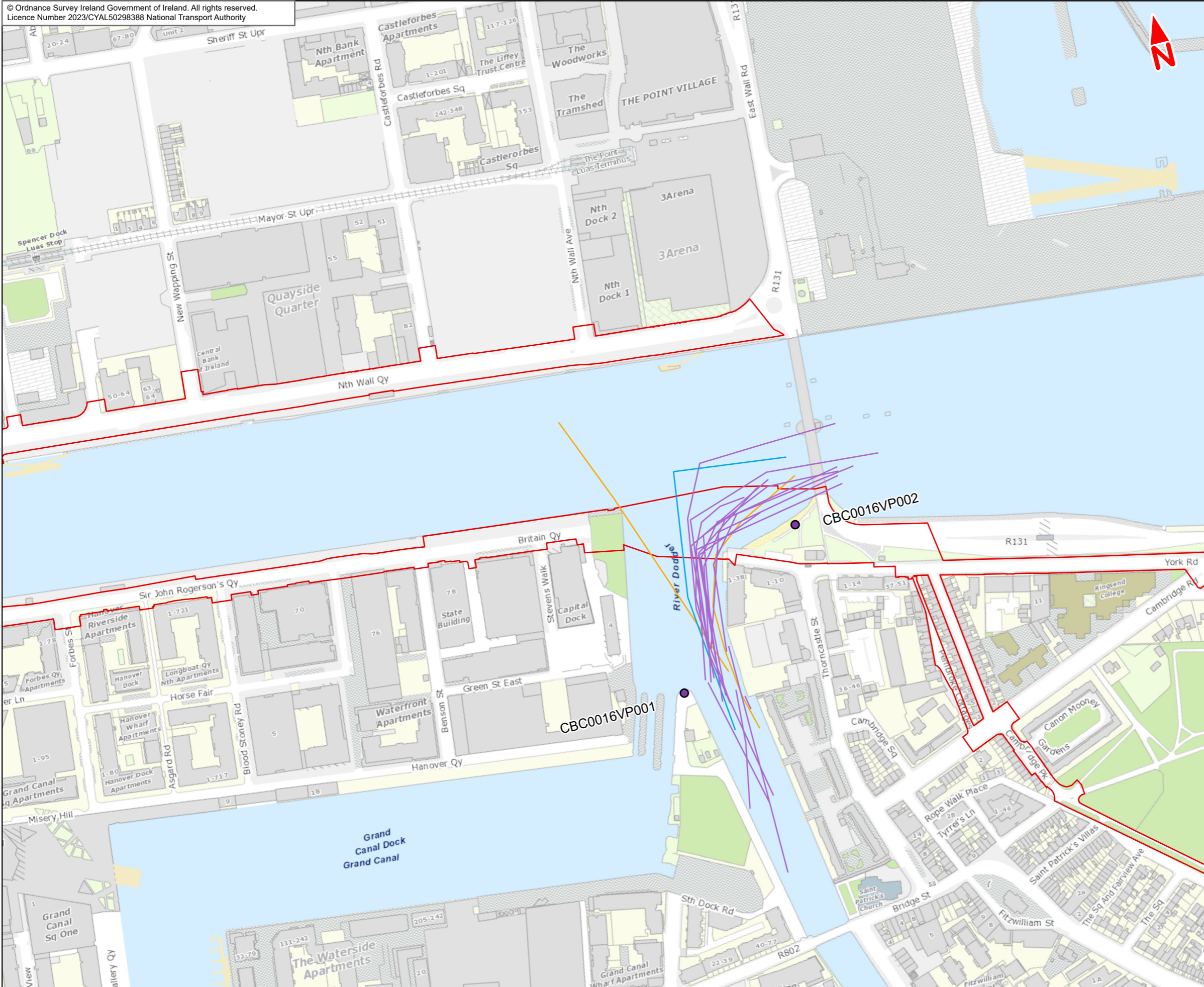


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**JACOBS**  
**ARUP SYSTRA**

Programme Title <b>BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS</b>				
Drawing Title Ringsend to City Centre Core Bus Corridor Scheme Figure 12.9.4 Wintering Bird Vantage Point Survey Results - Waders				
Date 11/04/2023	Scale @ A3 1:3 500	Drawn EK	Checked PW	Approved DK
Project Code BCIDE	Originator Code JAC	QMS Code		Drawing File Name BCIDE-JAC-ENV_BD-0016_XX_00-DR-GG-0921
Sheet Number 1 of 3		Status A	Rev M01	

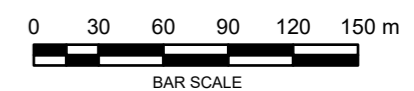


- Legend :**
- Ringsend to City Centre Core Bus Corridor Scheme
  - Wintering Birds Vantage Points

**Flight Line**

    - Curlew
    - Oystercatcher
    - Redshank

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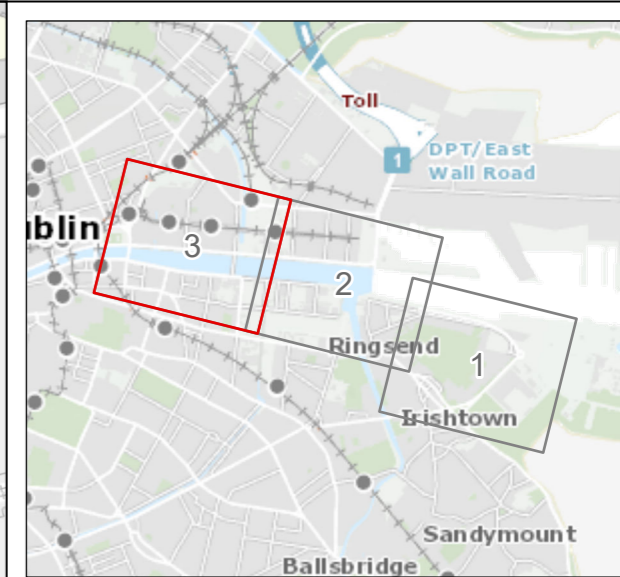
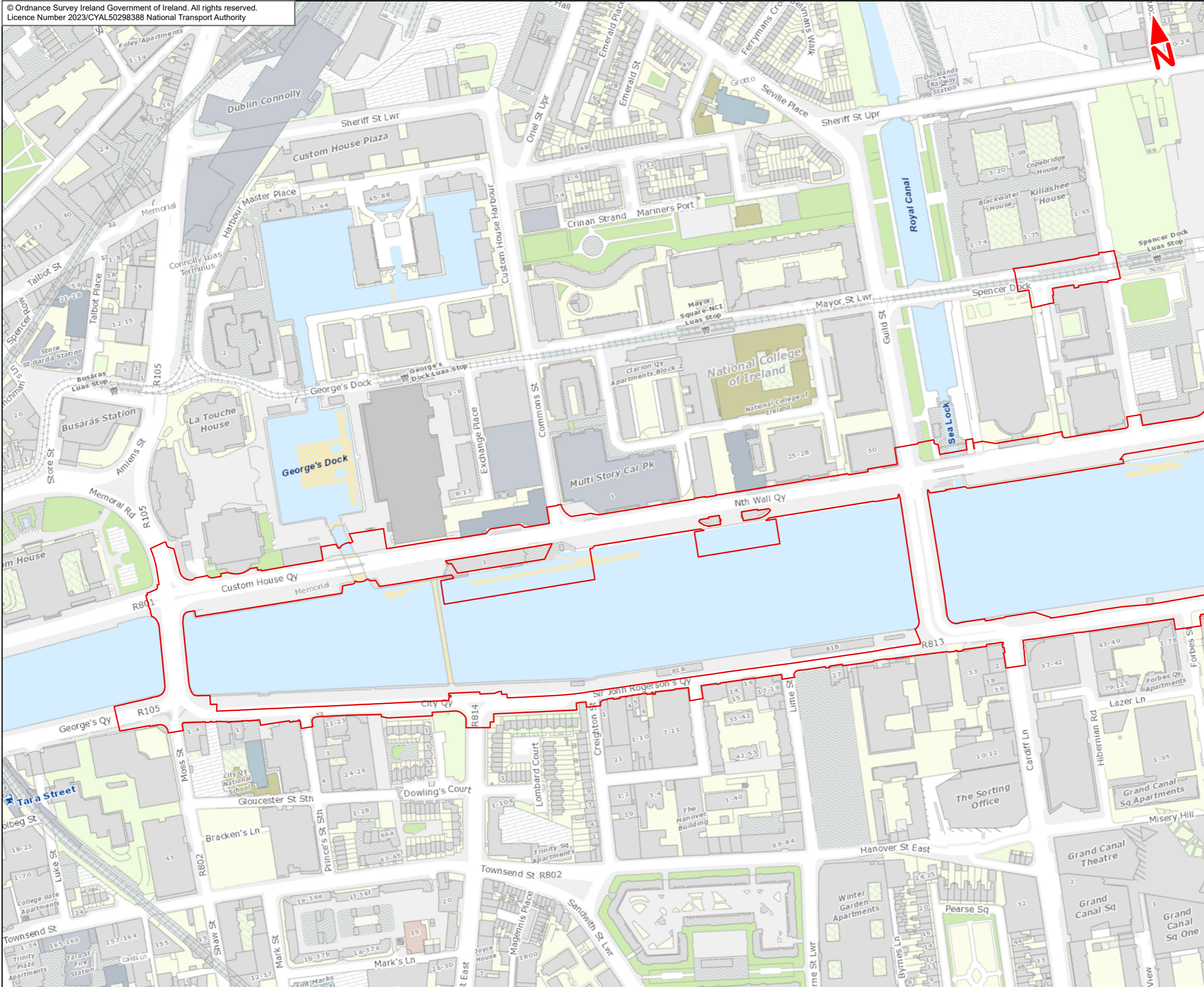
Consultant: **JACOBS ARUP SYSTRA**

Date: 11/04/2023  
Scale @ A3: 1:3 500

Project Code: BCIDE  
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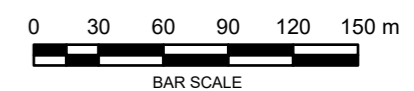
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Checked: PW  
Approved: DK

Programme Title: <b>BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS</b>			
Drawing Title: Ringsend to City Centre Core Bus Corridor Scheme Figure 12.9.4 Wintering Bird Vantage Point Survey Results - Waders			
Drawing File Name: BCIDE-JAC-ENV BD-0016_XX 00-DR-GG-0922	Sheet Number: 2 of 3	Status: A	Rev: M01



**Legend :**  
 Ringsend to City Centre  
 Core Bus Corridor Scheme

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Consultant  
**JACOBS**  
**ARUP SYSTRA**

Programme Title  
**BUSCONNECTS DUBLIN  
 CORE BUS CORRIDORS INFRASTRUCTURE WORKS**

Drawing Title  
 Ringsend to City Centre Core Bus Corridor Scheme  
 Figure 12.9.4  
 Wintering Bird Vantage Point Survey Results - Waders

Date	11/04/2023	Scale @ A3	1:3 500	Drawn	EK	Checked	PW	Approved	DK
Project Code	BCIDE	Originator Code	JAC	QMS Code					

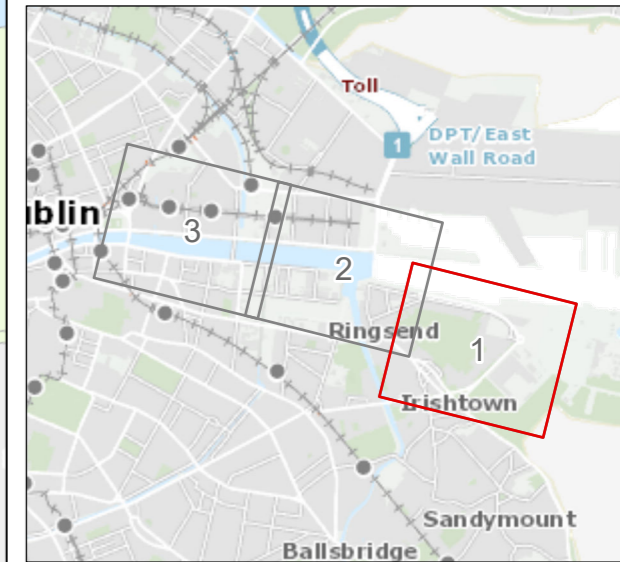
Drawing File Name	BCIDE-JAC-ENV BD-0016_XX_00-DR-GG-0923	Sheet Number	3 of 3	Status	A	Rev	M01
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The background of the slide is a vibrant yellow. It is decorated with several abstract, overlapping shapes in shades of blue and teal. These shapes include rounded rectangles, elongated ovals, and curved bands. Interspersed among these shapes are several white circles of varying sizes, some of which are partially enclosed by the colored shapes, creating a sense of depth and movement. The overall aesthetic is modern and graphic.

**12.9.5**

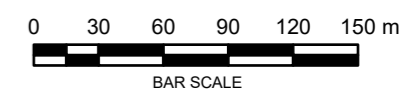
Wintering Bird Vantage Point

Survey Results: Waterfowl



**Legend :**  
 Ringsend to City Centre  
 Core Bus Corridor Scheme

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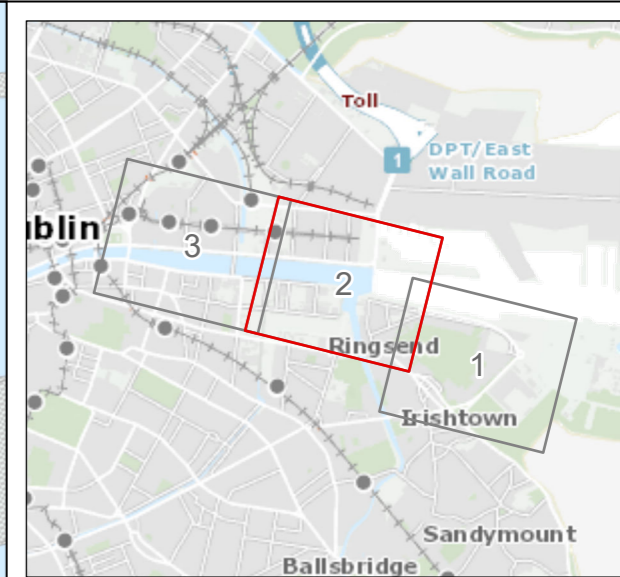
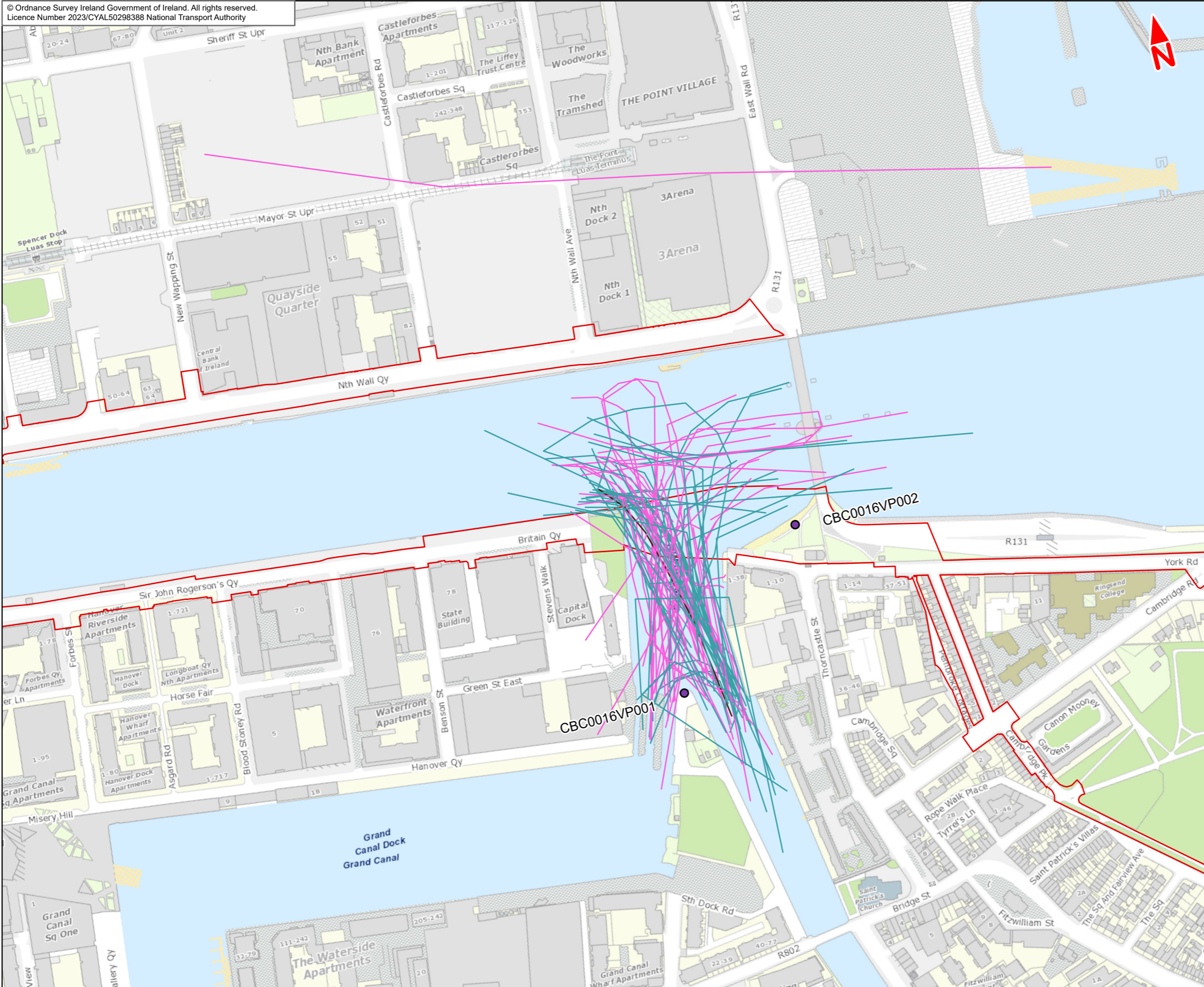


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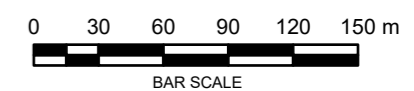
Consultant  
**JACOBS**  
**ARUP SYSTRA**

Programme Title <b>BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS</b>				
Drawing Title Ringsend to City Centre Core Bus Corridor Scheme Figure 12.9.5 Wintering Bird Vantage Point Survey Results - Waterfowl				
Date 12/04/2023	Scale @ A3 1:3 500	Drawn EK	Checked PW	Approved DK
Project Code BCIDE	Originator Code JAC	QMS Code		
Drawing File Name BCIDE-JAC-ENV BD-0016_XX_00-DR-GG-0931	Sheet Number 1 of 3	Status A	Rev M01	



- Legend :**
- Ringsend to City Centre Core Bus Corridor Scheme
  - Wintering Birds Vantage Points
- Flight Line**
- Mallard
  - Mute Swan
  - Tufted Duck

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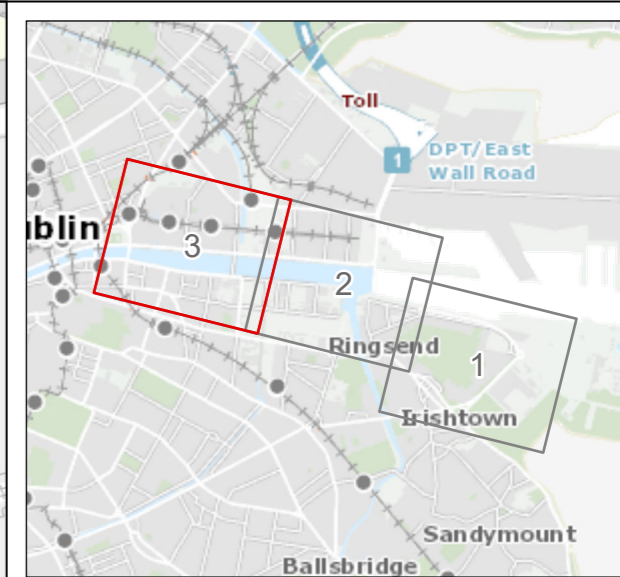
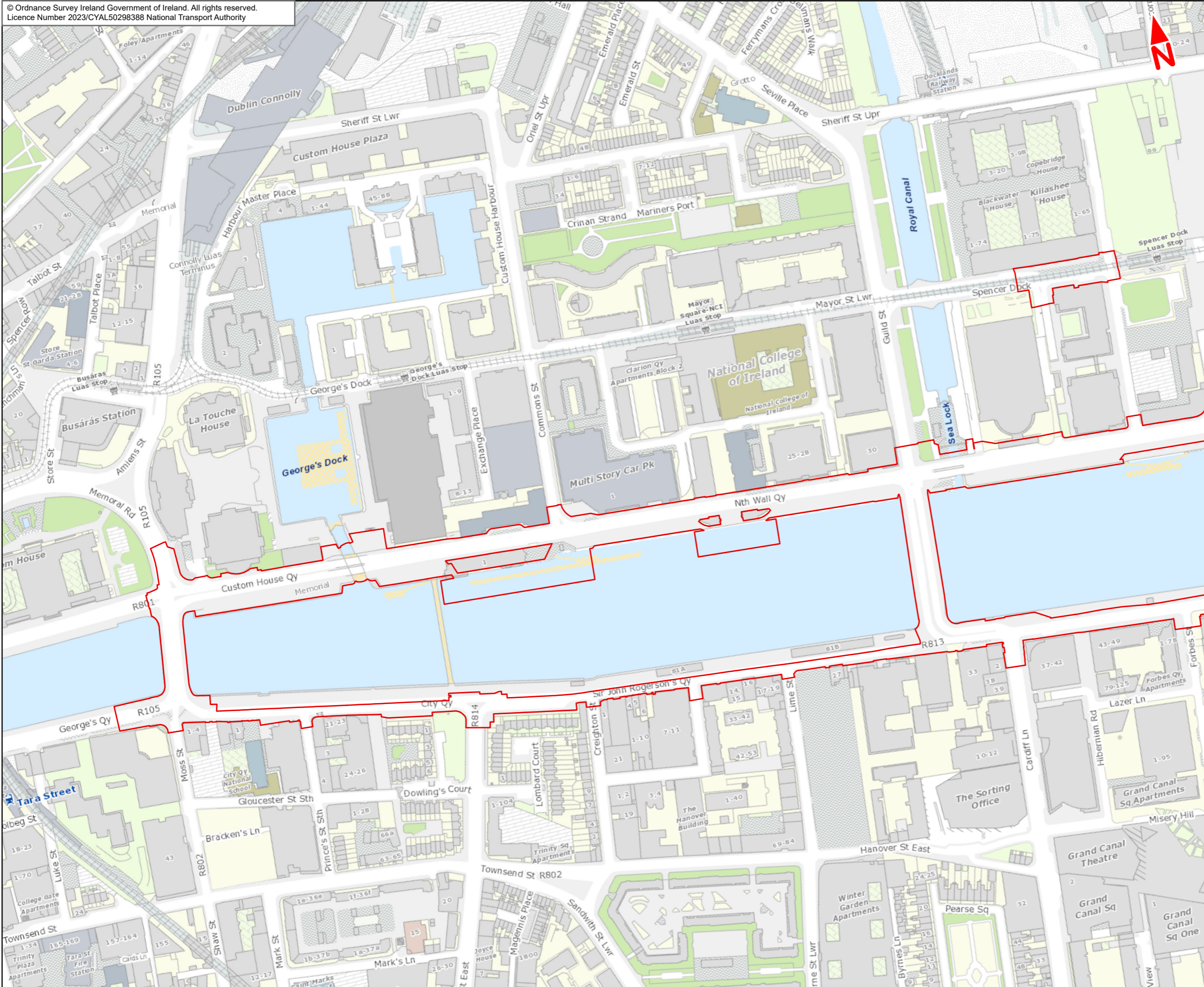
Consultant: **JACOBS ARUP SYSTRA**

Date: 12/04/2023  
Scale @ A3: 1:3 500

Project Code: BCIDE  
Originator Code: JAC

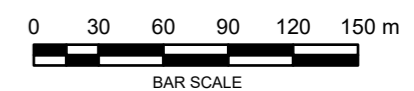
Drawn: EK  
Checked: PW  
Approved: DK

Programme Title: <b>BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS</b>			
Drawing Title: Ringsend to City Centre Core Bus Corridor Scheme Figure 12.9.5 Wintering Bird Vantage Point Survey Results - Waterfowl			
Drawing File Name: BCIDE-JAC-ENV BD-0016_XX 00-DR-GG-0932	Sheet Number: 2 of 3	Status: A	Rev: M01



**Legend :**  
 Ringsend to City Centre  
 Core Bus Corridor Scheme

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Consultant  
**JACOBS**  
**ARUP SYSTRA**

Programme Title  
**BUSCONNECTS DUBLIN**  
**CORE BUS CORRIDORS INFRASTRUCTURE WORKS**

Drawing Title  
 Ringsend to City Centre Core Bus Corridor Scheme  
 Figure 12.9.5  
 Wintering Bird Vantage Point Survey Results - Waterfowl

Date	12/04/2023	Scale @ A3	1:3 500	Drawn	EK	Checked	PW	Approved	DK
Project Code	BCIDE	Originator Code	JAC	QMS Code					

Drawing File Name	BCIDE-JAC-ENV_BD-0016_XX_00-DR-GG-0933	Sheet Number	3 of 3	Status	A	Rev	M01
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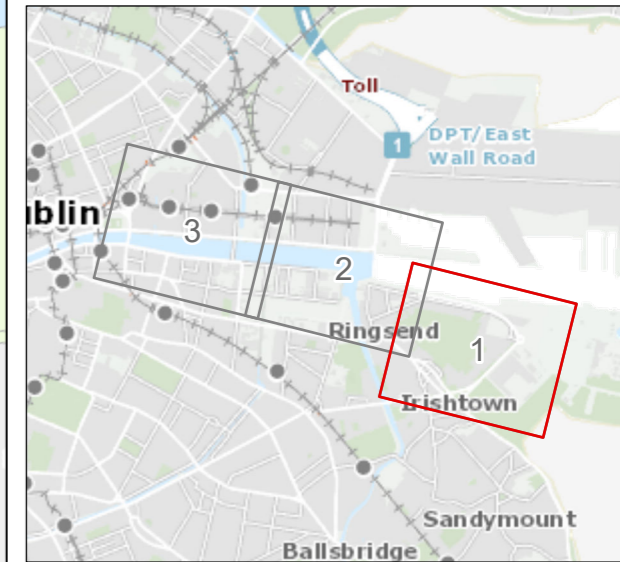




**12.9.6.1**

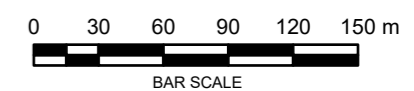
Wintering Bird Vantage Point Survey

Results: (Cormorant) Other



**Legend :**  
 Ringsend to City Centre  
 Core Bus Corridor Scheme

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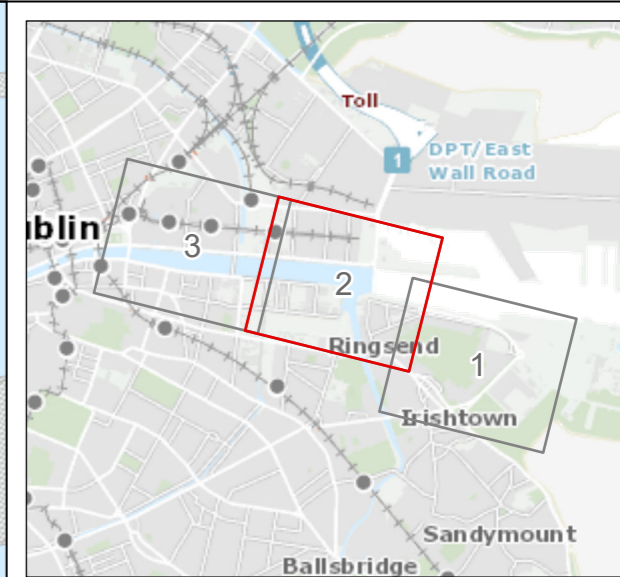
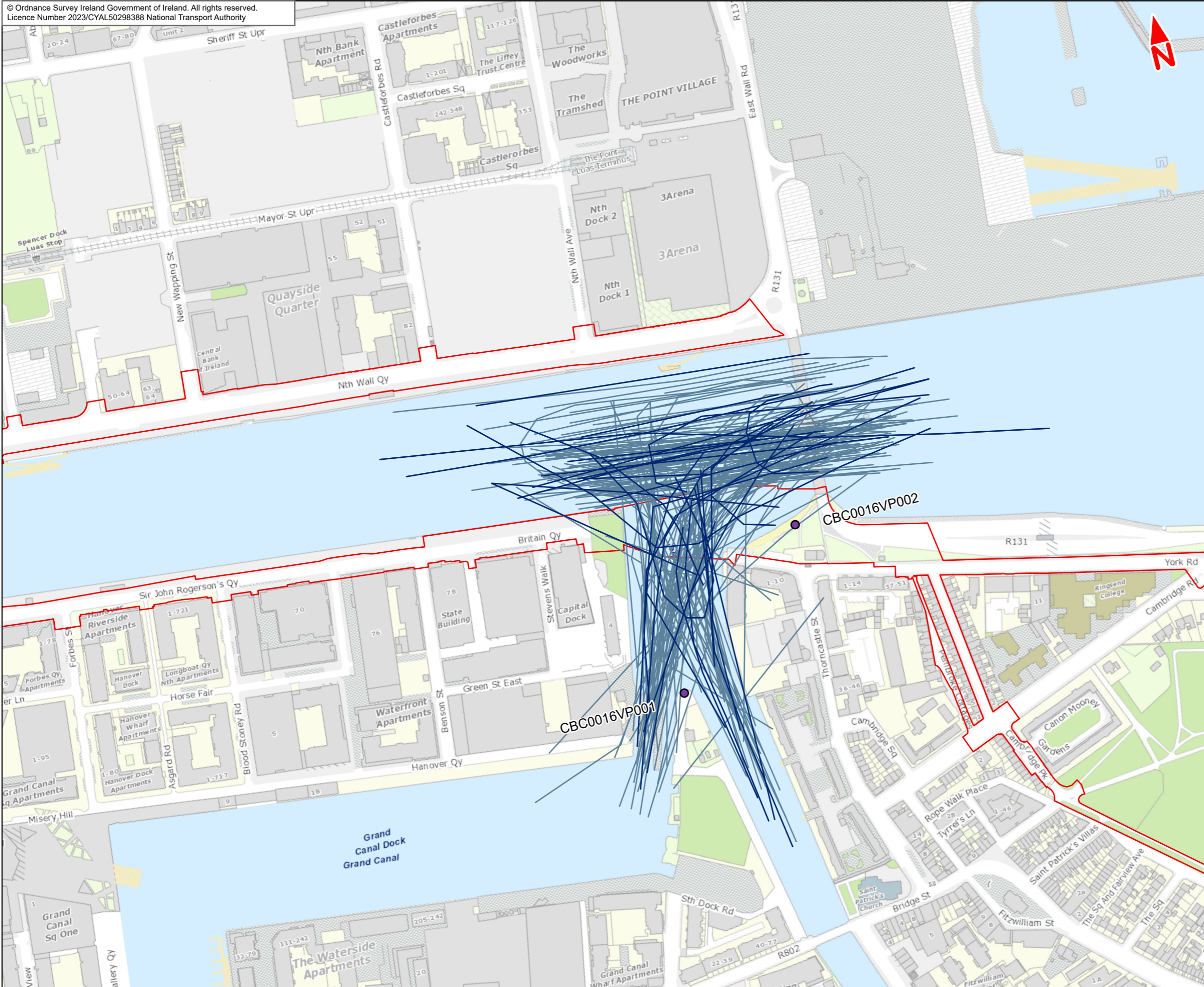


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**JACOBS**  
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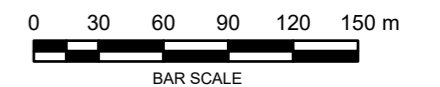
Programme Title <b>BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS</b>				
Drawing Title Ringsend to City Centre Core Bus Corridor Scheme Figure 12.9.6.1 Wintering Bird Vantage Point Survey Results - Other				
Date 12/04/2023	Scale @ A3 1:3 500	Drawn EK	Checked PW	Approved DK
Project Code BCIDE	Originator Code JAC	QMS Code		Drawing File Name BCIDE-JAC-ENV_BD-0016_XX_00-DR-GG-0941
Sheet Number 1 of 3		Status A	Rev M01	



**Legend :**

- Ringsend to City Centre Core Bus Corridor Scheme
- Wintering Birds Vantage Points
- Flight Line**
- Cormorant
- Dominant Flight Lines

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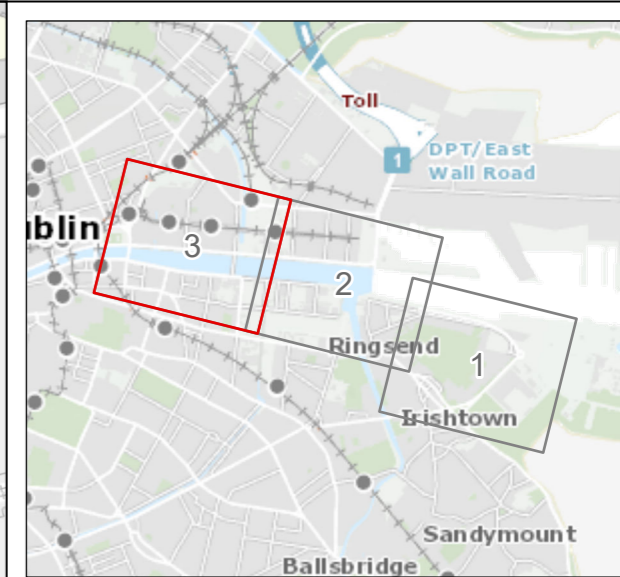
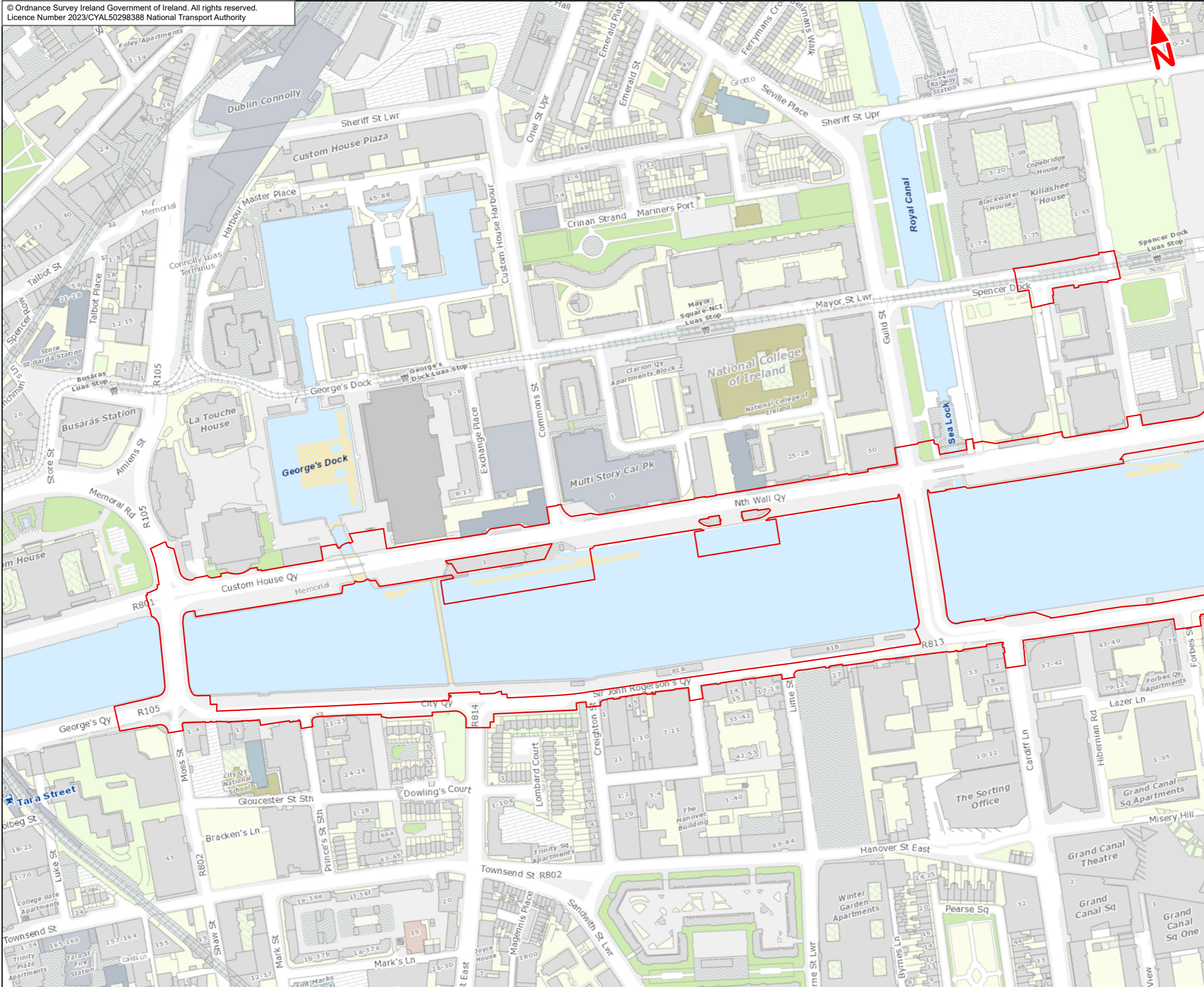
Consultant: **JACOBS ARUP SYSTRA**

Date: 12/04/2023  
Scale @ A3: 1:3 500

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Originator Code: JAC

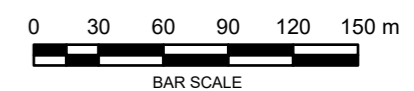
Drawn: EK  
Checked: PW  
Approved: DK

Programme Title: <b>BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS</b>			
Drawing Title: Ringsend to City Centre Core Bus Corridor Scheme Figure 12.9.6.1 Wintering Bird Vantage Point Survey Results - Other			
Drawing File Name: BCIDE-JAC-ENV BD-0016_XX_00-DR-GG-0942	Sheet Number: 2 of 3	Status: A	Rev: M01



**Legend :**  
 Ringsend to City Centre  
 Core Bus Corridor Scheme

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Consultant  
**JACOBS**  
**ARUP SYSTRA**

Programme Title  
**BUSCONNECTS DUBLIN  
 CORE BUS CORRIDORS INFRASTRUCTURE WORKS**

Drawing Title  
 Ringsend to City Centre Core Bus Corridor Scheme  
 Figure 12.9.6.1  
 Wintering Bird Vantage Point Survey Results - Other

Date	12/04/2023	Scale @ A3	1:3 500	Drawn	EK	Checked	PW	Approved	DK
Project Code	BCIDE	Originator Code	JAC	QMS Code					

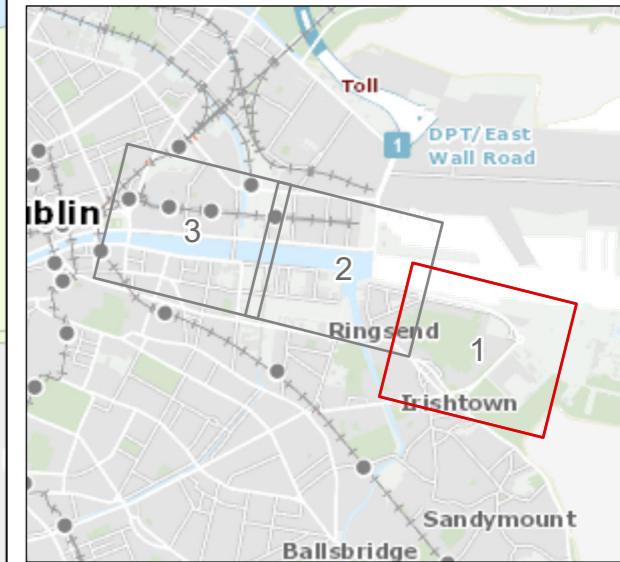
Drawing File Name	BCIDE-JAC-ENV_BD-0016_XX_00-DR-GG-0943	Sheet Number	3 of 3	Status	A	Rev	M01
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**12.9.6.2**

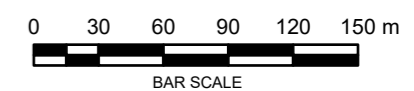
Wintering Bird Vantage Point

Survey Results: Other



**Legend :**  
 Ringsend to City Centre Core Bus Corridor Scheme

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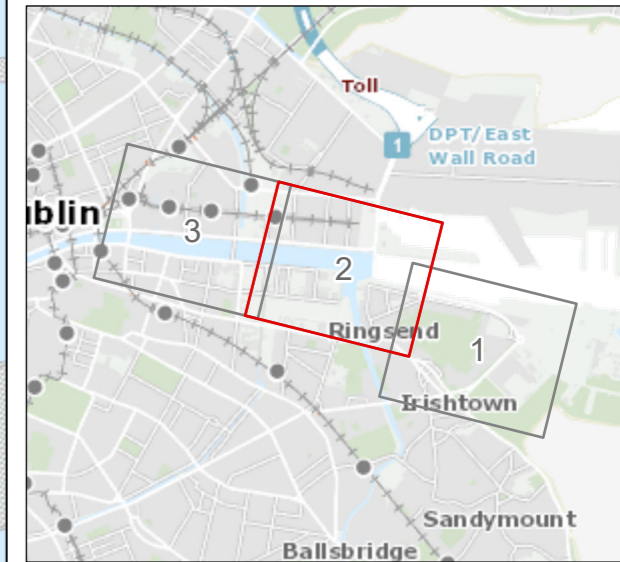
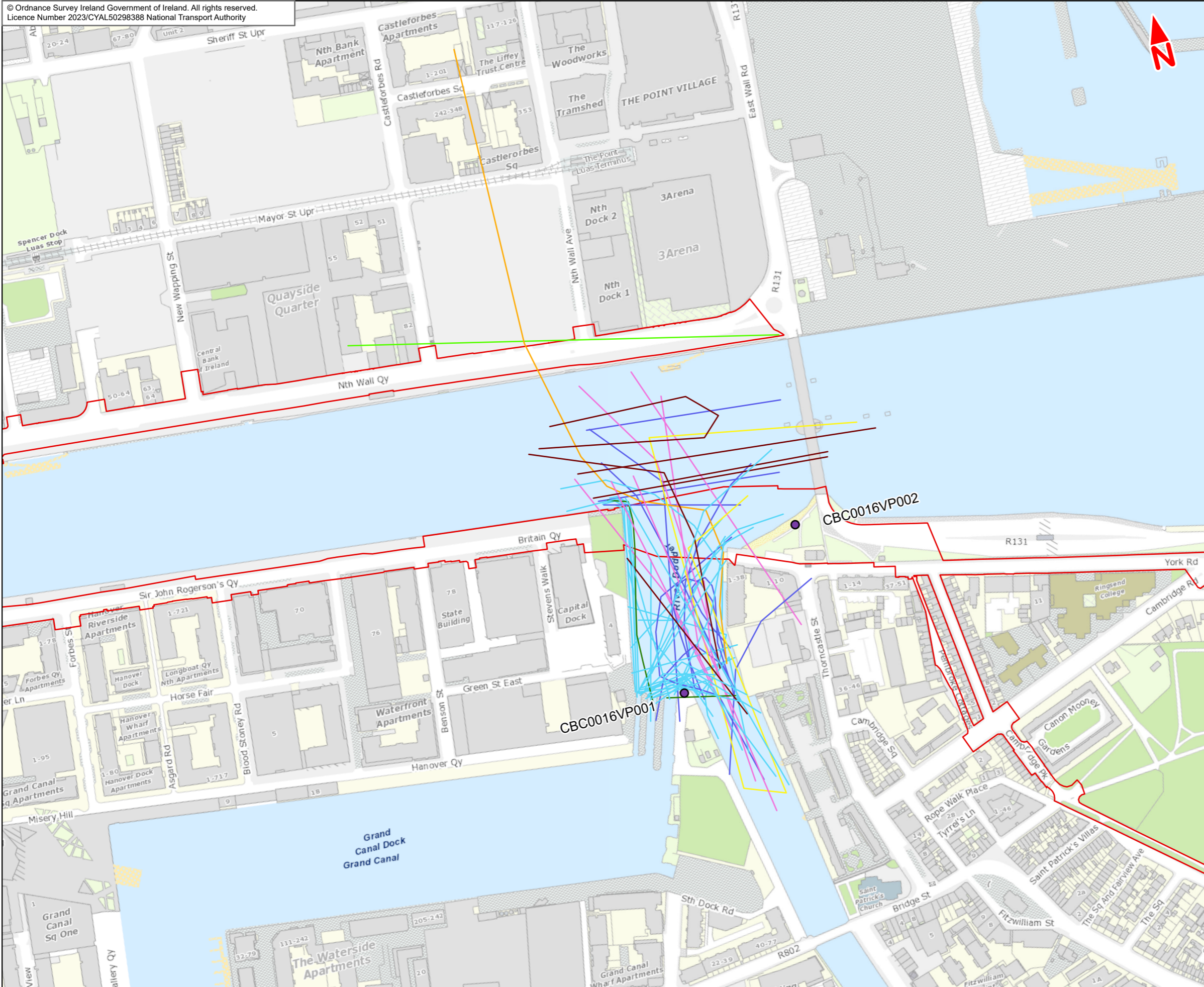


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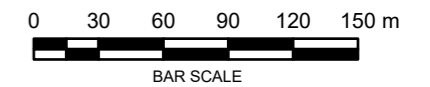
Programme Title <b>BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS</b>				
Drawing Title Ringsend to City Centre Core Bus Corridor Scheme Figure 12.9.6.2 Wintering Bird Vantage Point Survey Results - Other				
Date 12/04/2023	Scale @ A3 1:3 500	Drawn EK	Checked PW	Approved DK
Project Code BCIDE	Originator Code JAC	QMS Code		Drawing File Name BCIDE-JAC-ENV_BD-0016_XX_00-DR-GG-0944
Sheet Number 1 of 3		Status A	Rev M01	



**Legend :**

- Ringsend to City Centre Core Bus Corridor Scheme
- Wintering Birds Vantage Points
- Flight Line**
- Black Guillemot
- Grey Heron
- Grey Wagtail
- Kingfisher
- Little Egret
- Peregrine
- Sparrowhawk
- Teal

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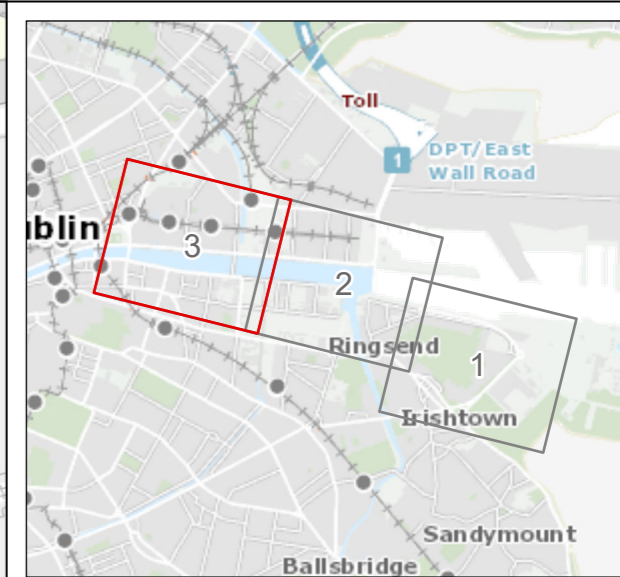
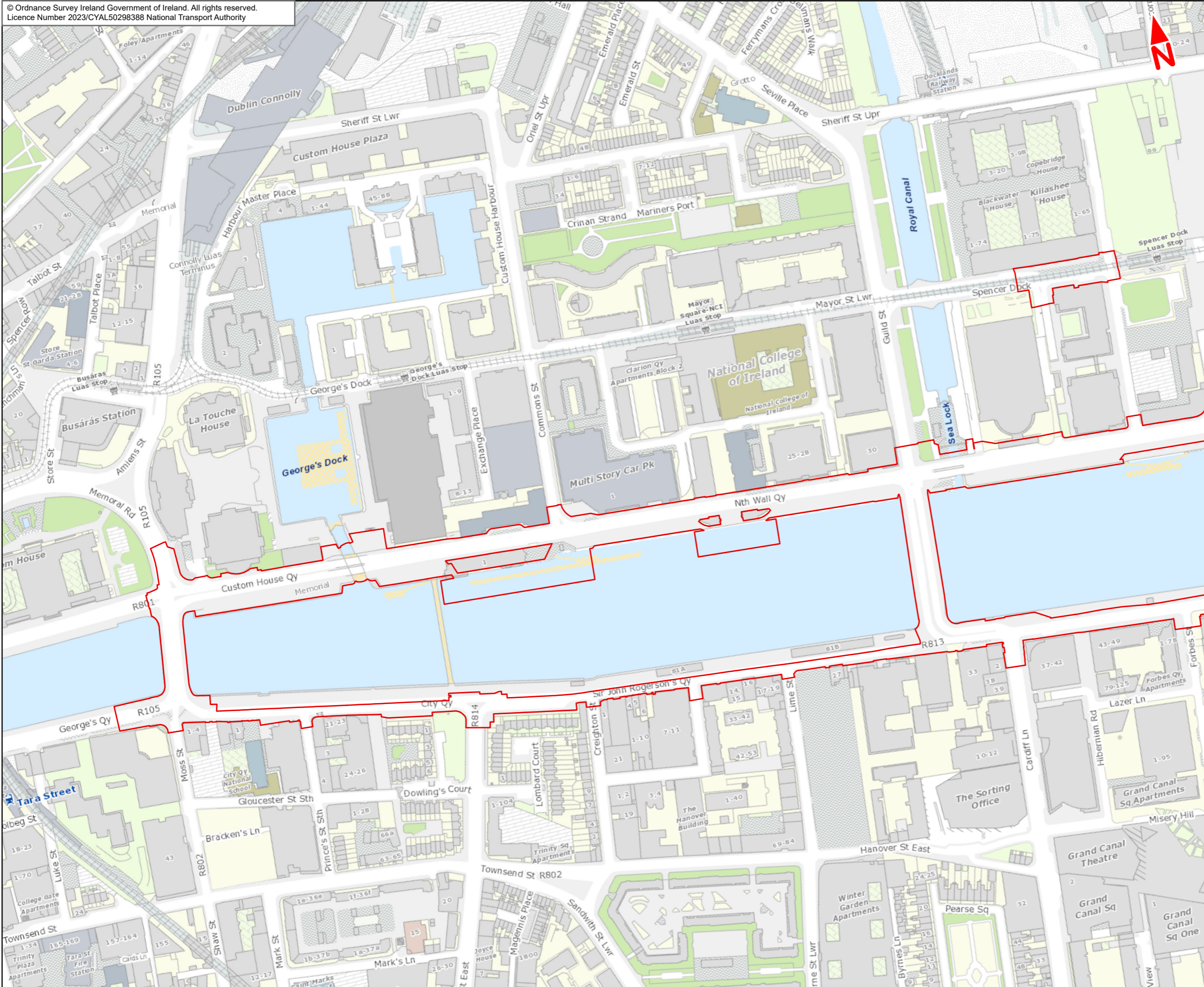


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		Rev	Date	Drn	Chk'd	App'd	Description
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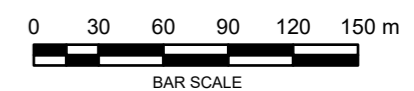
Date	Scale @ A3	Drawn	Checked	Approved
12/04/2023	1:3 500	EK	PW	DK
Project Code	Originator Code	QMS Code		
BCIDE	JAC			

<b>Programme Title</b> BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS				
<b>Drawing Title</b> Ringsend to City Centre Core Bus Corridor Scheme Figure 12.9.6.2 Wintering Bird Vantage Point Survey Results - Other				
Drawing File Name	Sheet Number	Status	Rev	
BCIDE-JAC-ENV_BD-0016_XX_00-DR-GG-0945	2 of 3	A	M01	



**Legend :**  
 Ringsend to City Centre  
 Core Bus Corridor Scheme

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 National Transport Authority

Consultant  
**JACOBS**  
**ARUP SYSTRA**

Programme Title  
**BUSCONNECTS DUBLIN  
 CORE BUS CORRIDORS INFRASTRUCTURE WORKS**

Drawing Title  
 Ringsend to City Centre Core Bus Corridor Scheme  
 Figure 12.9.6.2  
 Wintering Bird Vantage Point Survey Results - Other

Date	12/04/2023	Scale @ A3	1:3 500	Drawn	EK	Checked	PW	Approved	DK
Project Code	BCIDE	Originator Code	JAC	QMS Code					

Drawing File Name	BCIDE-JAC-ENV_BD-0016_XX_00-DR-GG-0946	Sheet Number	3 of 3	Status	A	Rev	M01
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