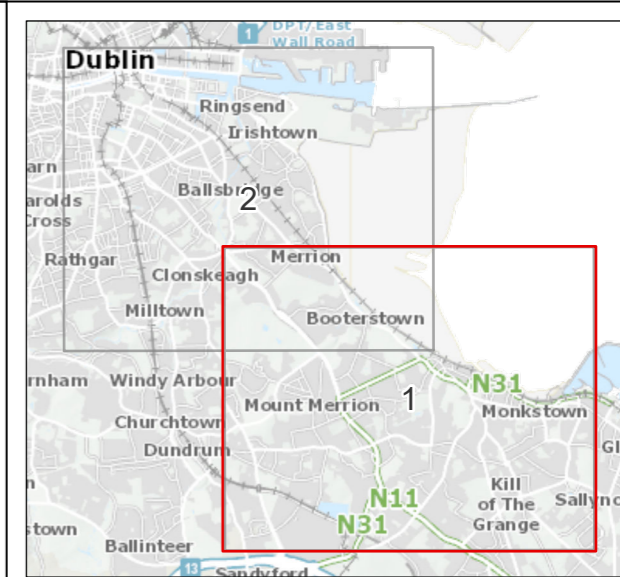
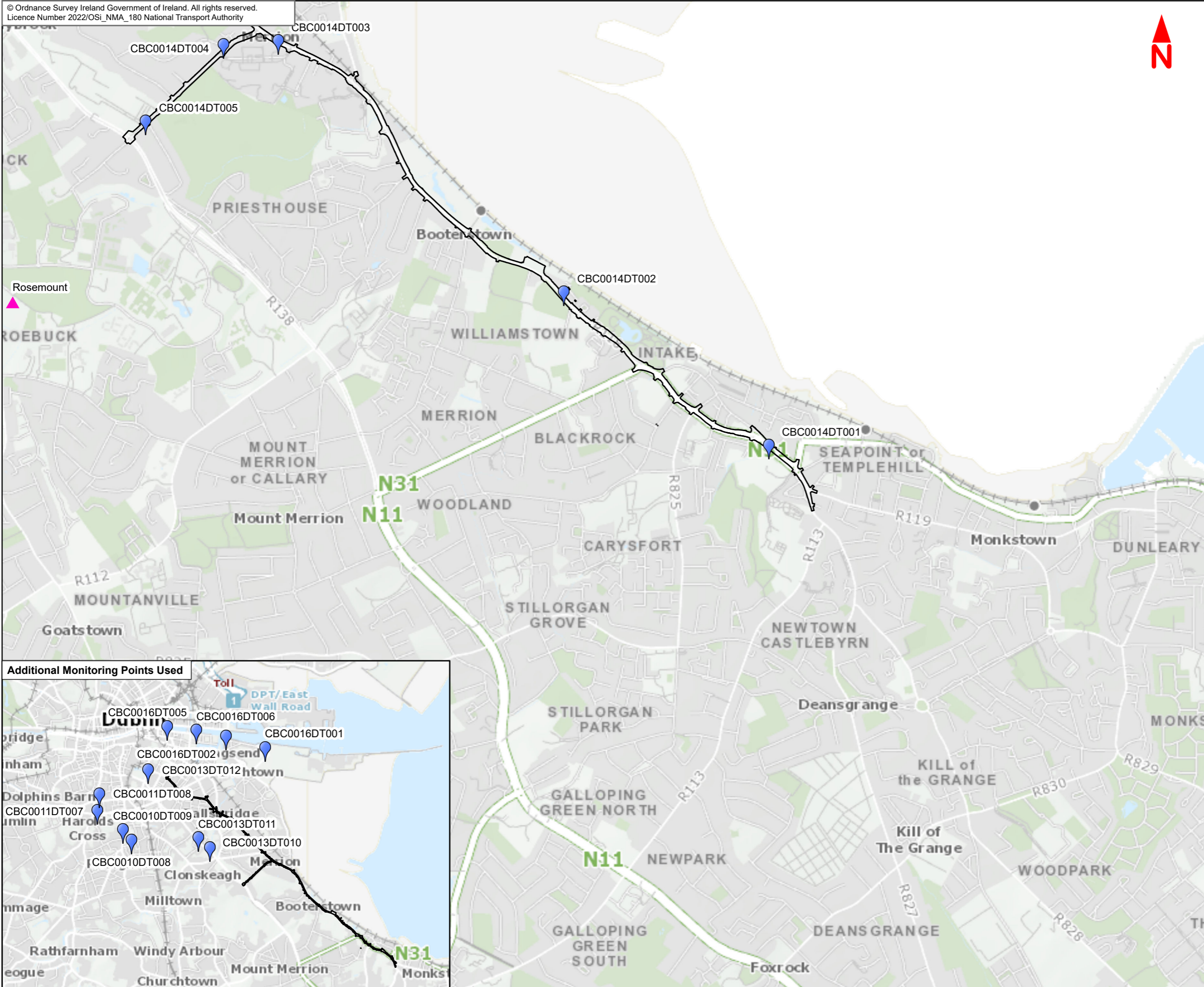





7.1 Monitoring Locations

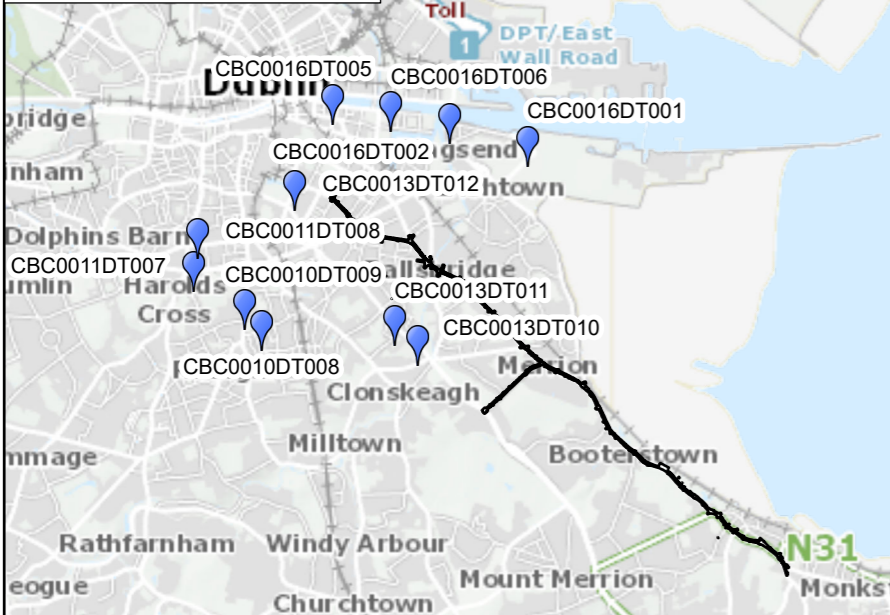




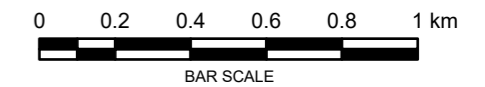
Legend :

-  Belfield/Blackrock to City Centre Core Bus Corridor Scheme
-  EPA Current Monitoring Site
-  Diffusion Tube

Additional Monitoring Points Used



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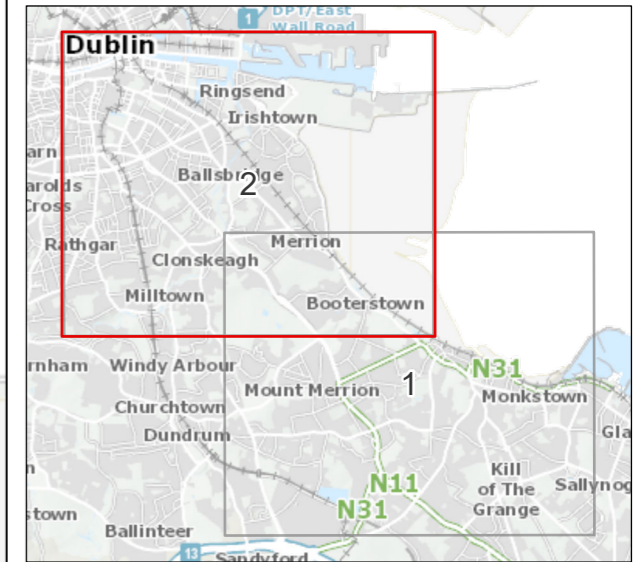
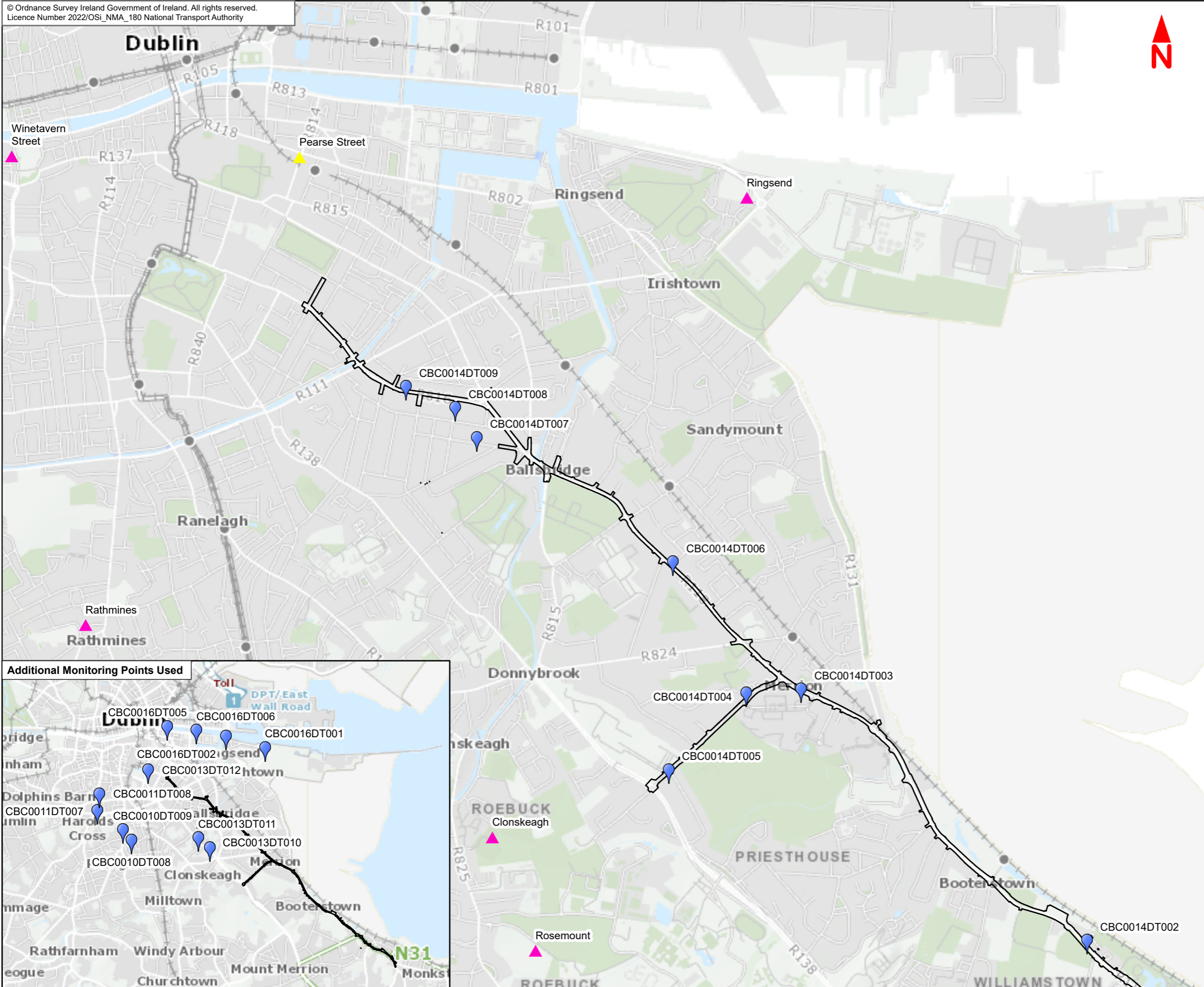
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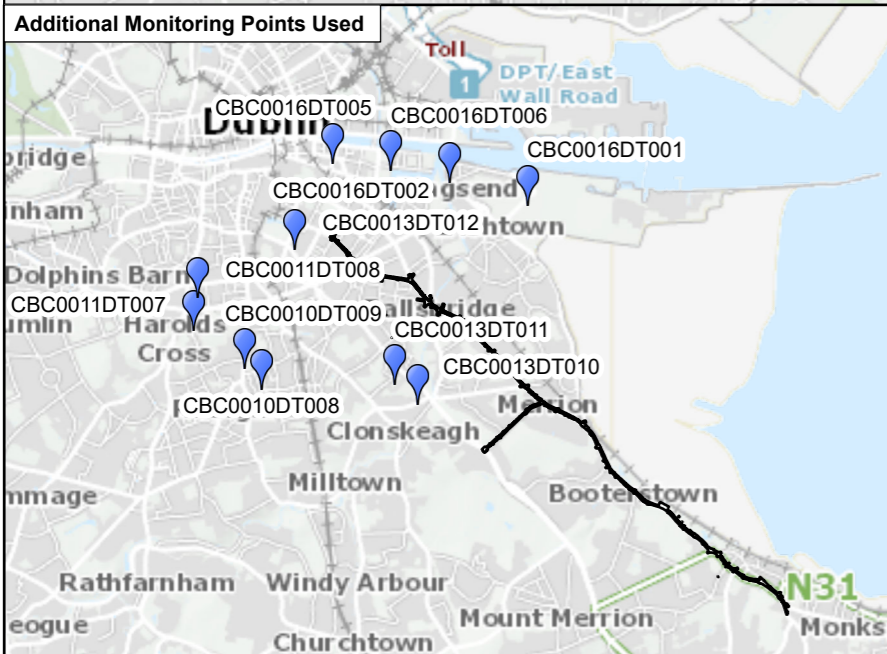
Rev	Date	Drn	Chk'd	App'd	Description
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Client NTA Udarás Náisiúnta Iompair National Transport Authority		Consultant JACOBS ARUP SYSTRA		
Date 21/01/2022	Scale @ A3 1:20 000	Drawn LF	Checked SW	Approved DK
Project Code BCIDE	Originator Code JAC	QMS Code		

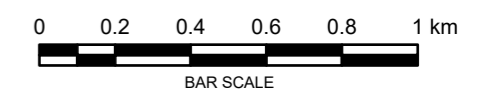
Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS				
Drawing Title Belfield / Blackrock to City Centre Core Bus Corridor Scheme Figure 7.1 Monitoring Locations				
Drawing File Name BCIDE-JAC-ENV_AQ-1415_XX_00-DR-GG-0101	Sheet Number 1 of 2	Status A	Rev M01	



- Legend :**
- Belfield/Blackrock to City Centre Core Bus Corridor Scheme
 - EPA Current Monitoring Site
 - EPA Past Monitoring Site
 - Diffusion Tube



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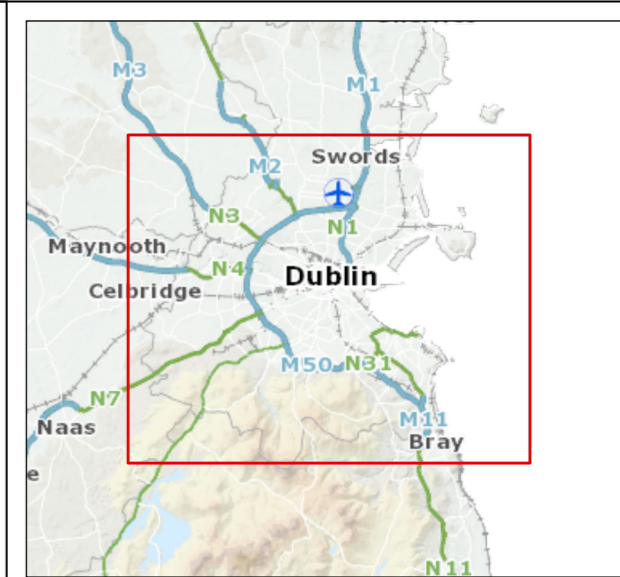
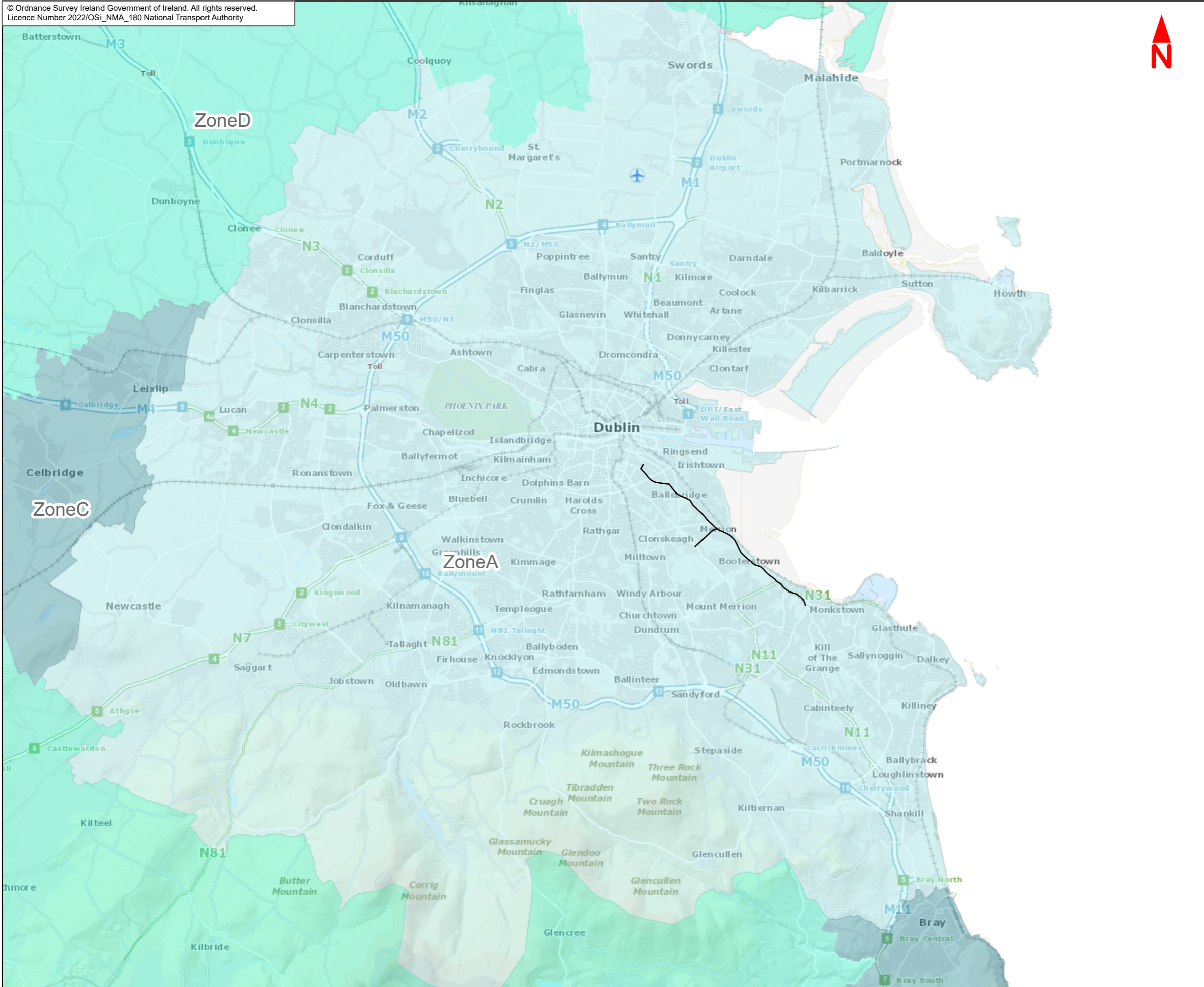
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Project Code BCIDE	Originator Code JAC	QMS Code		

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS				
Drawing Title Belfield / Blackrock to City Centre Core Bus Corridor Scheme Figure 7.1 Monitoring Locations				
Drawing File Name BCIDE-JAC-ENV_AQ-1415_XX_00-DR-GG-0102	Sheet Number 2 of 2	Status A	Rev M01	

7.2 Air Quality Zones





- Legend :**
- Belfield/Blackrock to City Centre Core Bus Corridor Scheme
 - Zone A - Dublin Conurbation
 - Zone C - Other Cities and Large Towns
 - Zone D - Rural Ireland

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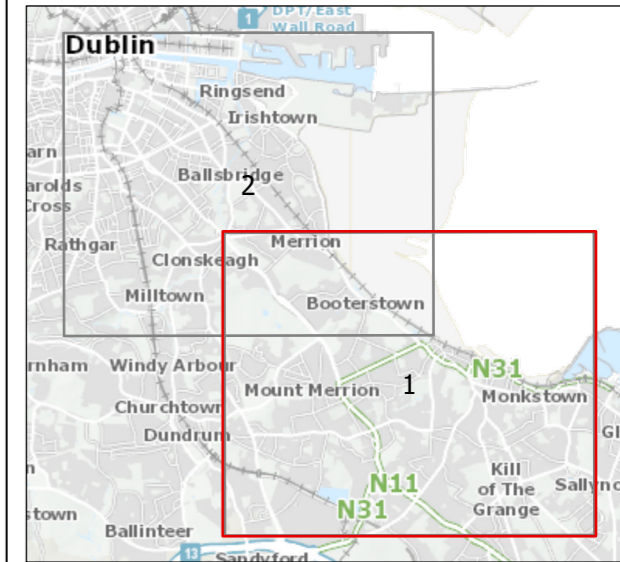
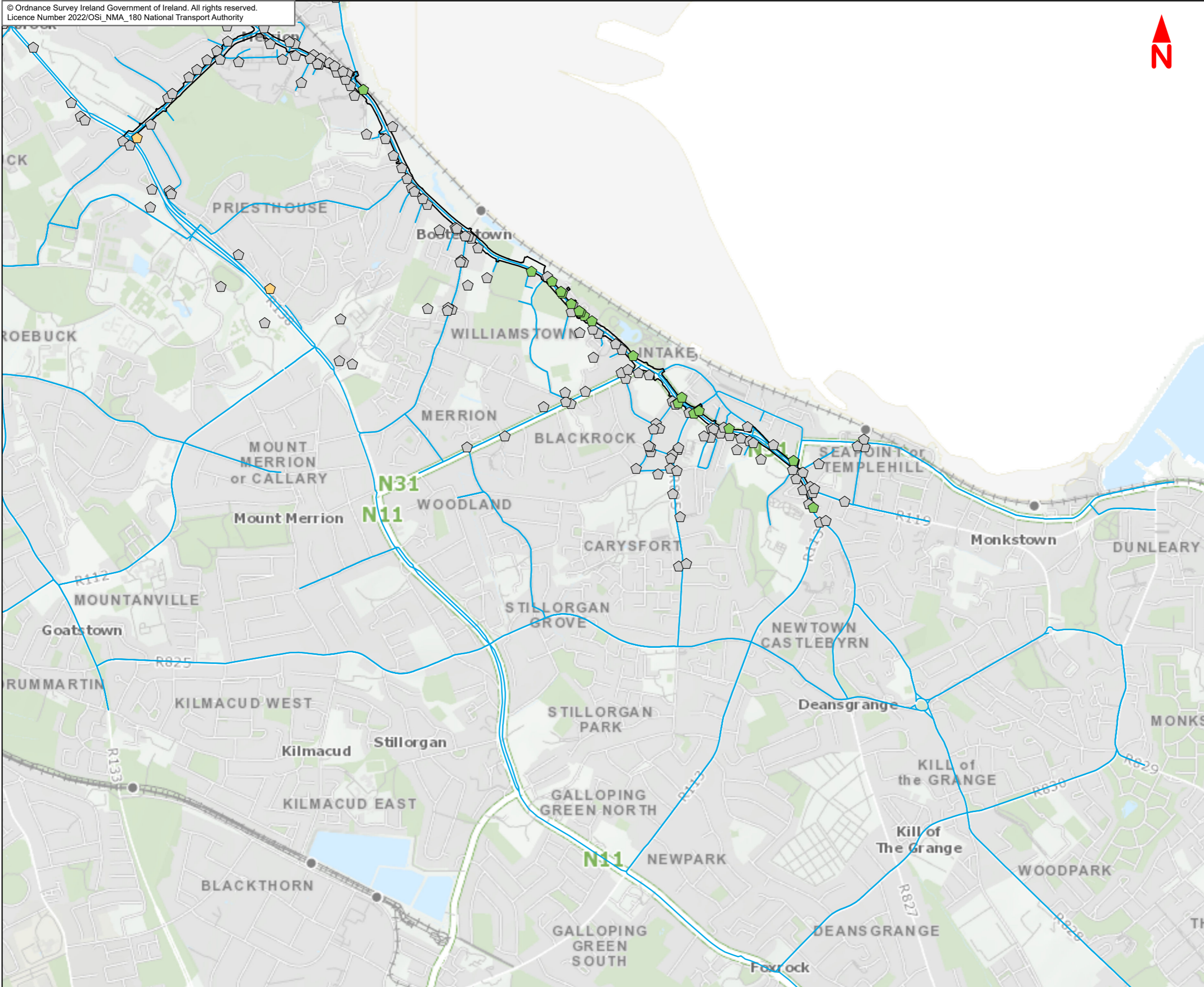
Programme Title BUSCONNECTS DUBLIN				
Drawing Title CORE BUS CORRIDORS INFRASTRUCTURE WORKS				
Drawing Title Belfield / Blackrock to City Centre Core Bus Corridor Scheme				
Figure 7.2 Air Quality Zones				
Drawing File Name BCIDE-JAC-ENV_AQ-1415_XX_00-DR-GG-0200	Sheet Number 1 of 1	Status A	Rev M01	

Date 21/01/2022	Scale @ A3 1:125 000	Drawn LF	Checked SW	Approved DK
Project Code BCIDE	Originator Code JAC	QMS Code		



7.3

Modelled Annual Mean
NO₂ Impacts ($\mu\text{g}/\text{m}^3$) due to
Belfield / Blackrock to City
Centre Core Bus Corridor
Scheme (2028)

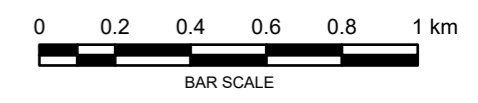


Legend :

- Belfield/Blackrock to City Centre Core Bus Corridor Scheme
- Modelled Road Network
- Significance of the modelled change in the annual mean NO₂ concentration due to Belfield/Blackrock to City Centre Core Bus Corridor Scheme (2028)**
- Negligible
- Slight Adverse
- Moderate Adverse
- Substantial Adverse
- Slight Beneficial
- Moderate Beneficial
- Substantial Beneficial

NO₂ Annual Mean Limit Value: 40 µg/m³

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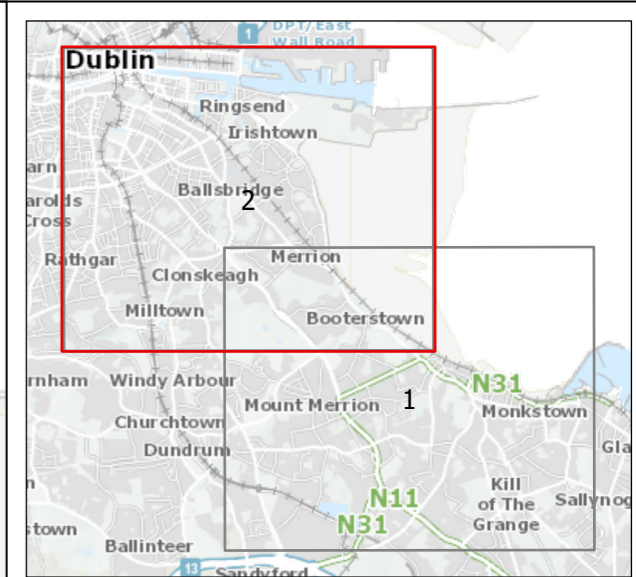
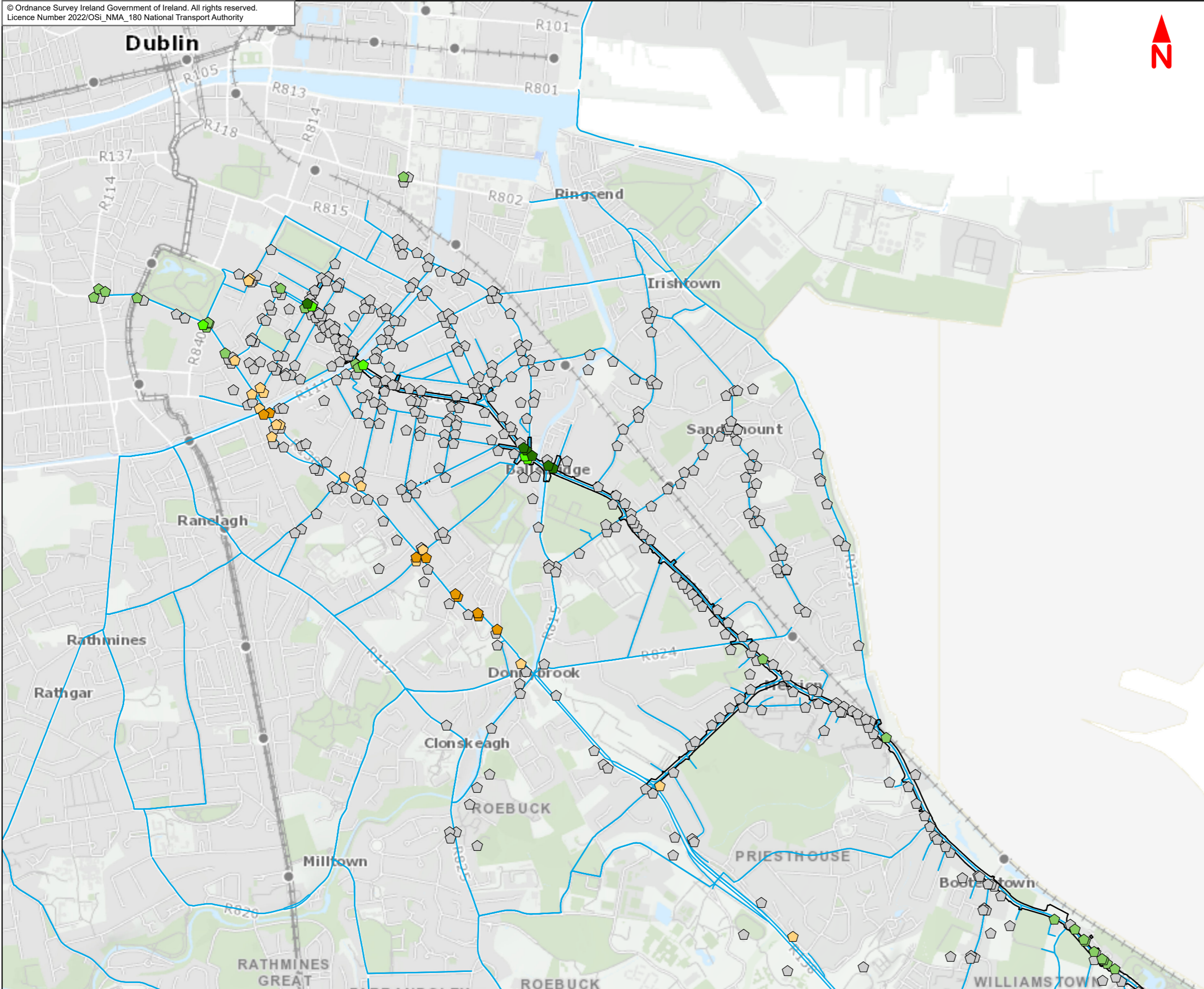
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National Transport Authority

Consultant
JACOBS ARUP SYSTRA

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS				
Drawing Title Belfield / Blackrock to City Centre Core Bus Corridor Scheme Figure 7.3 Modelled Annual Mean NO ₂ Impacts (µg/m ³) due to Belfield / Blackrock to City Centre Core Bus Corridor Scheme (2028)				
Drawing File Name BCIDE-JAC-ENV_AQ-1415_XX_00-DR-GG-0301	Sheet Number 1 of 2	Status A	Rev M01	

Date 02/02/2022	Scale @ A3 1:20 000	Drawn LF	Checked SW	Approved DK
Project Code BCIDE	Originator Code JAC	QMS Code		



Legend :

- Belfield/Blackrock to City Centre Core Bus Corridor Scheme
- Modelled Road Network

Significance of the modelled change in the annual mean NO₂ concentration due to Belfield/Blackrock to City Centre Core Bus Corridor Scheme (2028)

- Negligible
- Slight Adverse
- Moderate Adverse
- Substantial Adverse
- Slight Beneficial
- Moderate Beneficial
- Substantial Beneficial

NO₂ Annual Mean Limit Value: 40 µg/m³

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0 0.2 0.4 0.6 0.8 1 km
BAR SCALE

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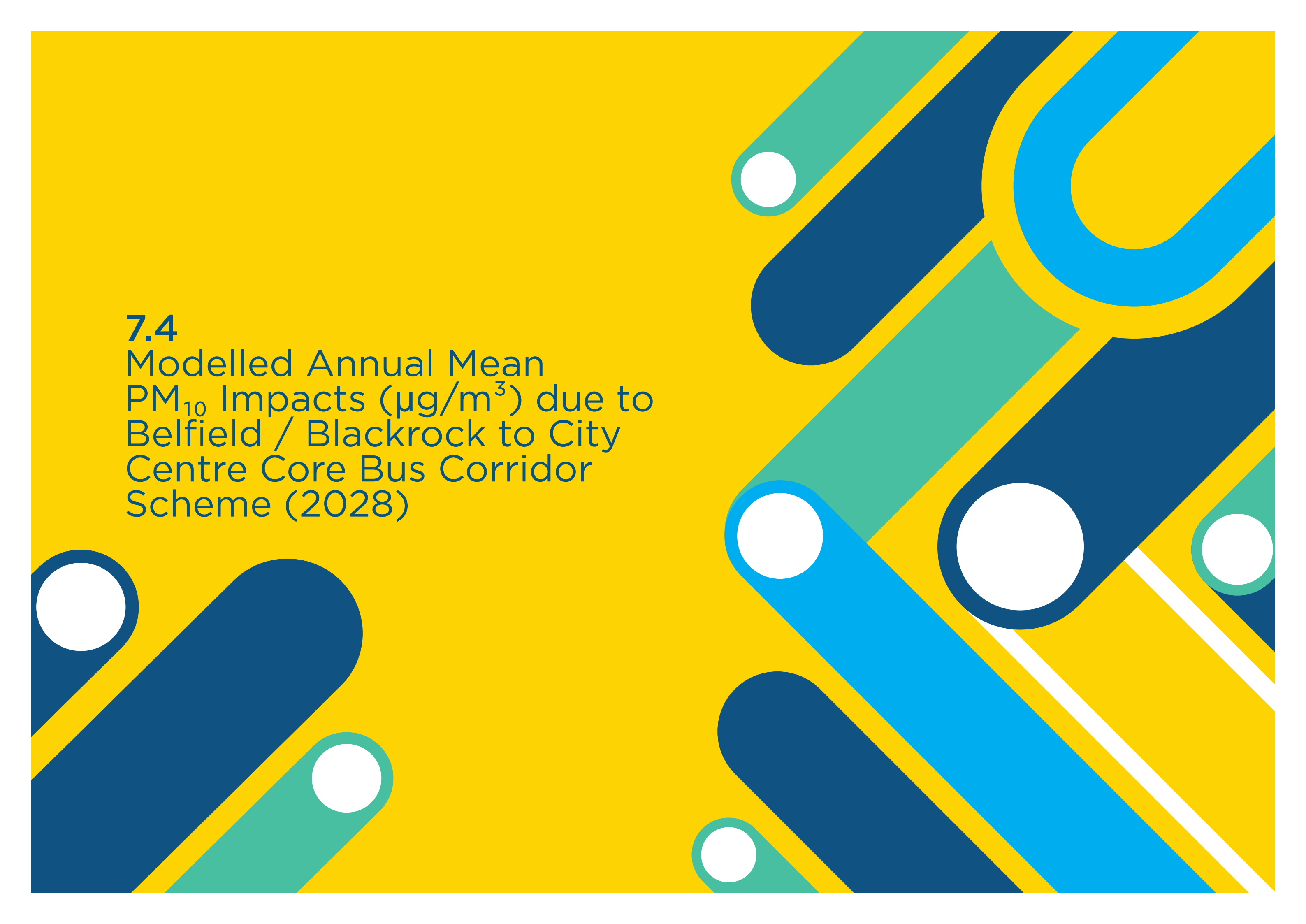
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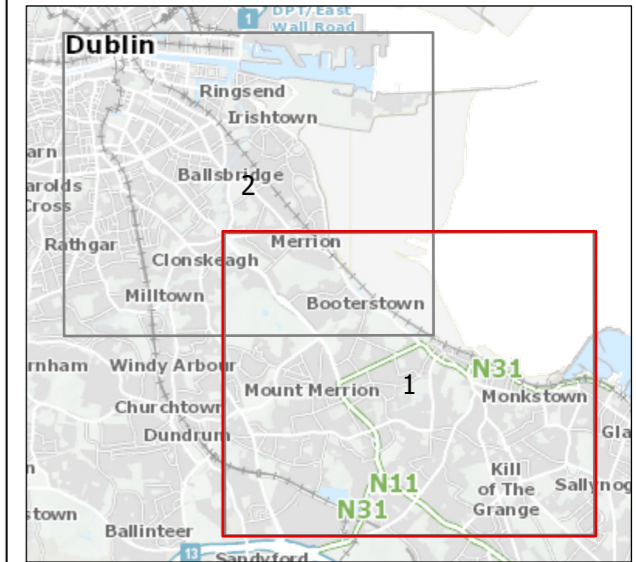
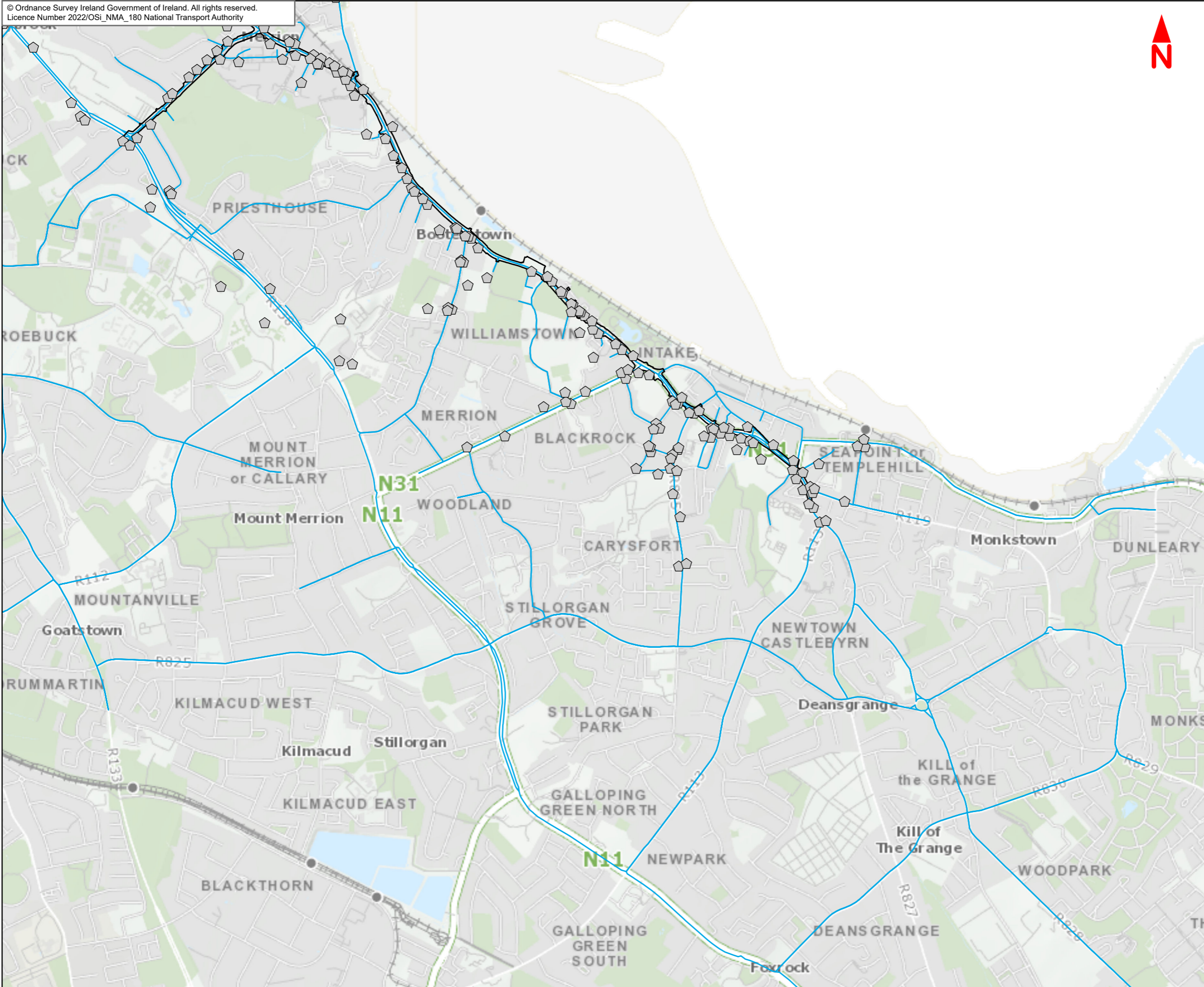
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Client NTA Udarás Náisiúnta Iompair National Transport Authority		Consultant JACOBS ARUP SYSTRA		
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Project Code BCIDE	Originator Code JAC	QMS Code		

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS				
Drawing Title Belfield / Blackrock to City Centre Core Bus Corridor Scheme Figure 7.3 Modelled Annual Mean NO ₂ Impacts (µg/m ³) due to Belfield / Blackrock to City Centre Core Bus Corridor Scheme (2028)				
Drawing File Name BCIDE-JAC-ENV_AQ-1415_XX_00-DR-GG-0302	Sheet Number 2 of 2	Status A	Rev M01	



7.4
Modelled Annual Mean
PM₁₀ Impacts ($\mu\text{g}/\text{m}^3$) due to
Belfield / Blackrock to City
Centre Core Bus Corridor
Scheme (2028)



Legend :

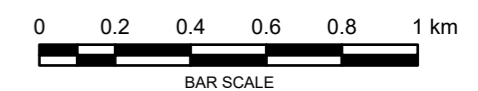
- Belfield/Blackrock to City Centre Core Bus Corridor Scheme
- Modelled Road Network

Significance of the modelled change in the annual mean PM₁₀ concentration due to Belfield/Blackrock to City Centre Core Bus Corridor Scheme (2028)

- Negligible
- Slight Adverse
- Moderate Adverse
- Substantial Adverse
- Slight Beneficial
- Moderate Beneficial
- Substantial Beneficial

PM₁₀ Annual Mean Limit Value: 40 µg/m³

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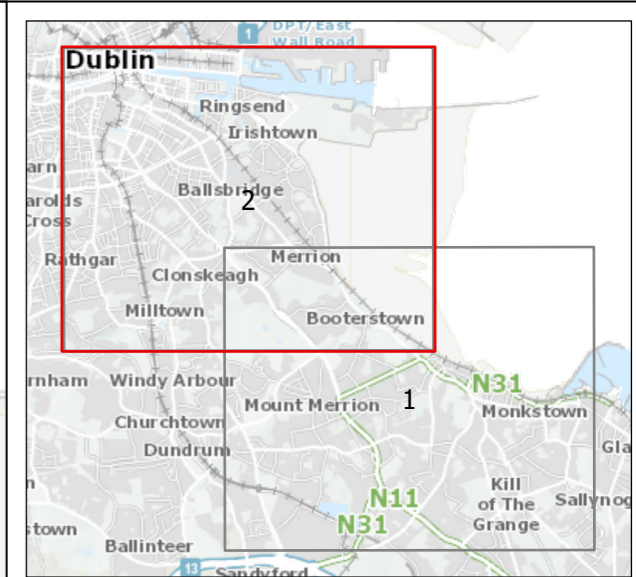
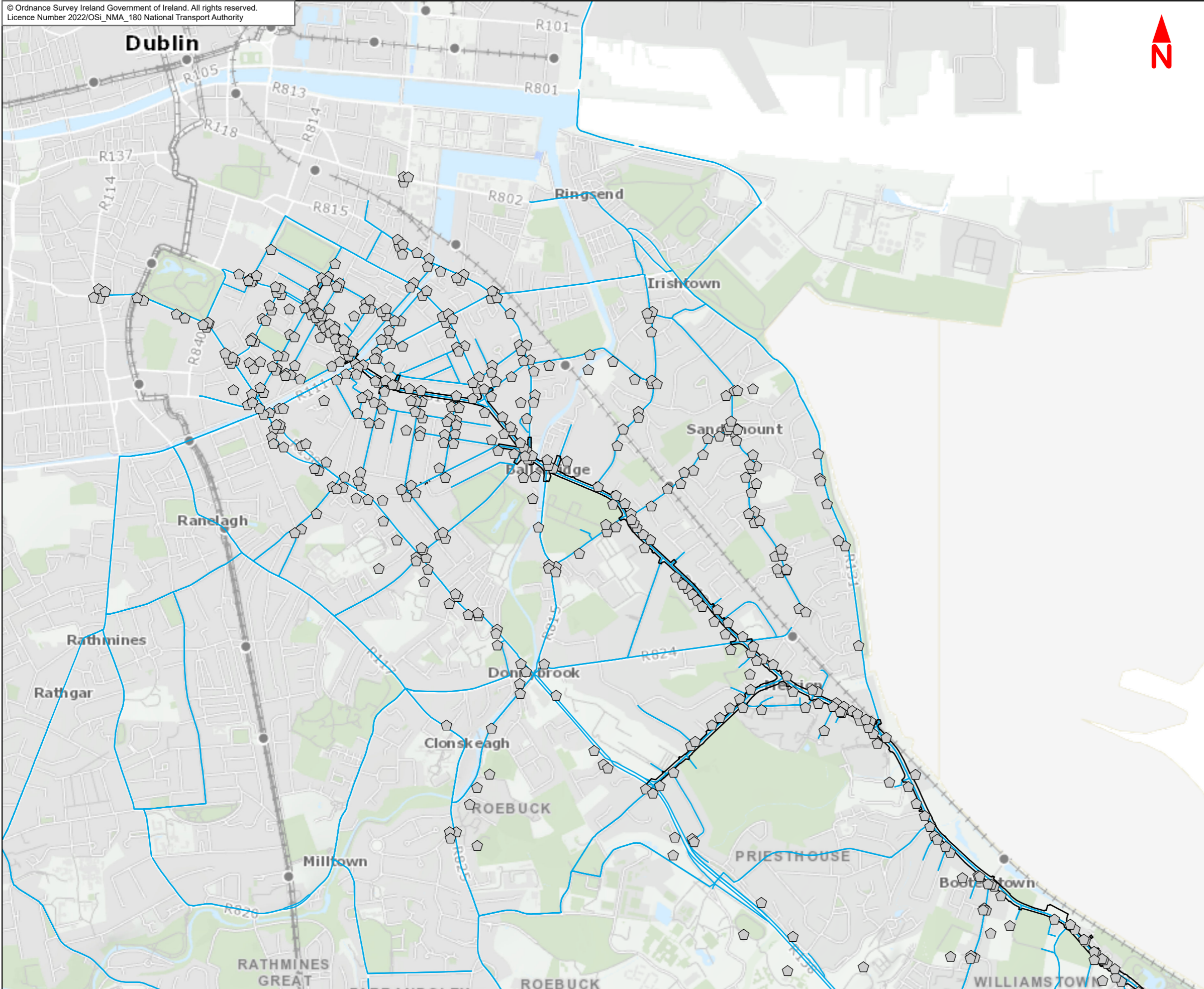
Date: 02/02/2022 | Scale @ A3: 1:20 000

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Drawn: LF | Checked: SW | Approved: DK

QMS Code: _____

Programme Title: BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title: Belfield / Blackrock to City Centre Core Bus Corridor Scheme			
Figure 7.4 Modelled Annual Mean PM ₁₀ Impacts (µg/m ³) due to Belfield/Blackrock to City Centre Core Bus Corridor Scheme (2028)			
Drawing File Name: BCIDE-JAC-ENV_AQ-1415_XX_00-DR-GG-0401	Sheet Number: 1 of 2	Status: A	Rev: M01



Legend :

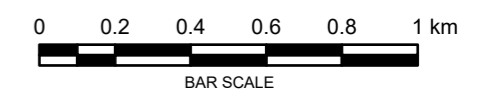
- Belfield/Blackrock to City Centre Core Bus Corridor Scheme
- Modelled Road Network

Significance of the modelled change in the annual mean PM₁₀ concentration due to Belfield/Blackrock to City Centre Core Bus Corridor Scheme (2028)

- Negligible
- Slight Adverse
- Moderate Adverse
- Substantial Adverse
- Slight Beneficial
- Moderate Beneficial
- Substantial Beneficial

PM₁₀ Annual Mean Limit Value: 40 µg/m³

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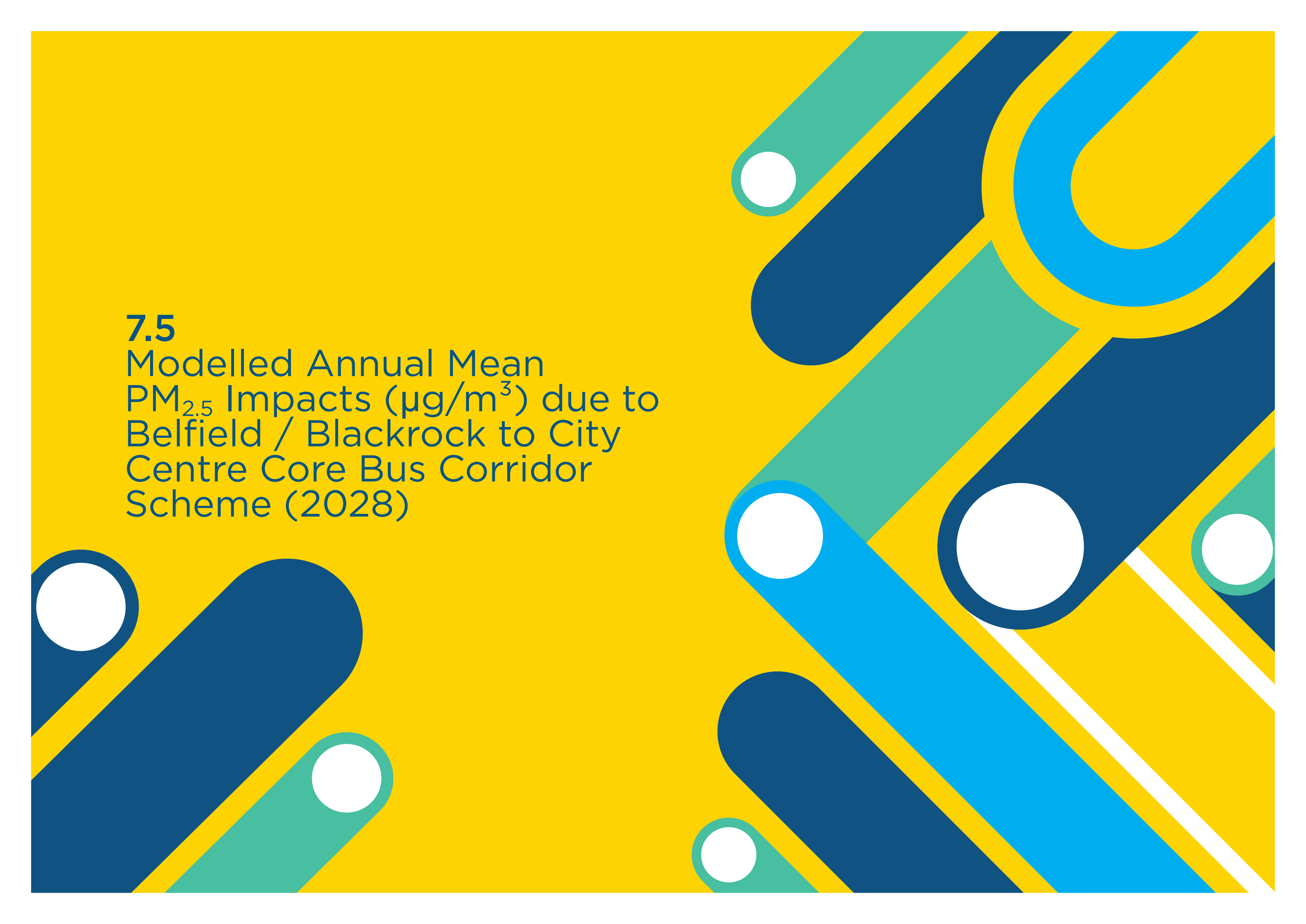
Consultant: **JACOBS ARUP SYSTRA**

Date: 02/02/2022 Scale @ A3: 1:20 000

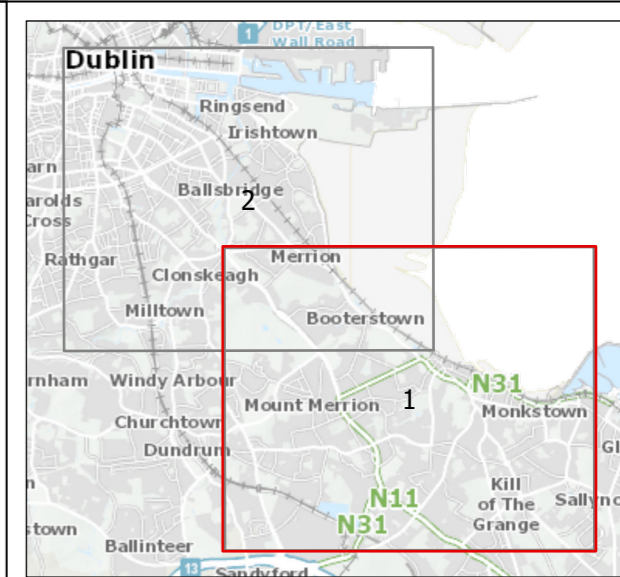
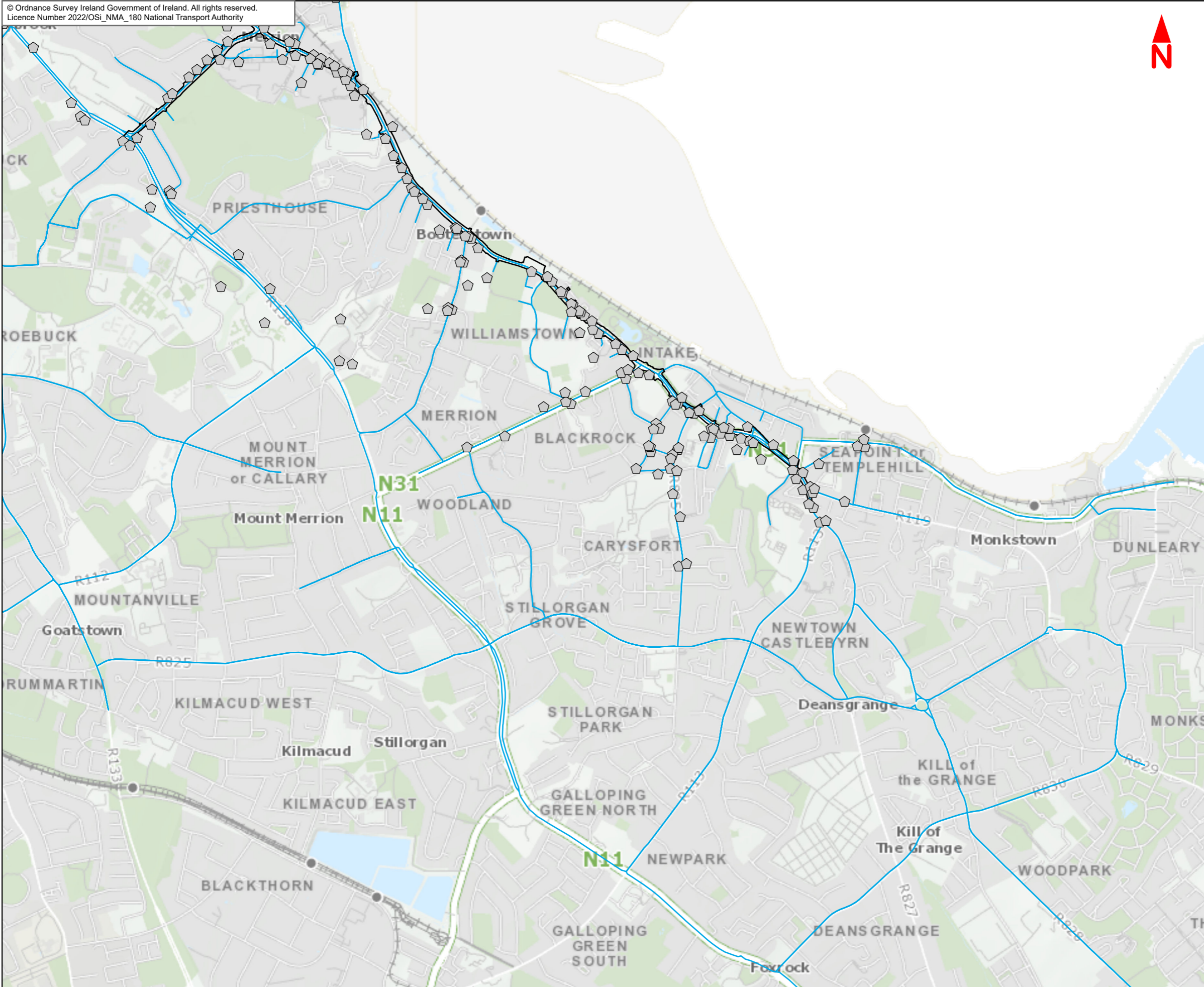
Project Code: BCIDE Originator Code: JAC

Drawn: LF Checked: SW Approved: DK

Programme Title: BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title: Belfield / Blackrock to City Centre Core Bus Corridor Scheme Figure 7.4			
Modeller Annual Mean PM ₁₀ Impacts (µg/m ³) due to Belfield/Blackrock to City Centre Core Bus Corridor Scheme (2028)			
Drawing File Name: BCIDE-JAC-ENV_AQ-1415_XX_00-DR-GG-0402	Sheet Number: 2 of 2	Status: A	Rev: M01



7.5
Modelled Annual Mean
PM_{2.5} Impacts ($\mu\text{g}/\text{m}^3$) due to
Belfield / Blackrock to City
Centre Core Bus Corridor
Scheme (2028)

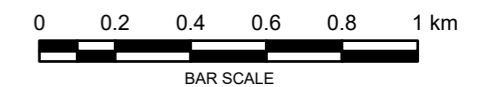


Legend :

- Belfield/Blackrock to City Centre Core Bus Corridor Scheme
 - Modelled Road Network
- Significance of the modelled change in the annual mean PM_{2.5} concentration due to Belfield/Blackrock to City Centre Core Bus Corridor Scheme (2028)**
- Negligible
 - Slight Adverse
 - Moderate Adverse
 - Substantial Adverse
 - Slight Beneficial
 - Moderate Beneficial
 - Substantial Beneficial

PM_{2.5} Annual Mean Limit Value: 25 µg/m³

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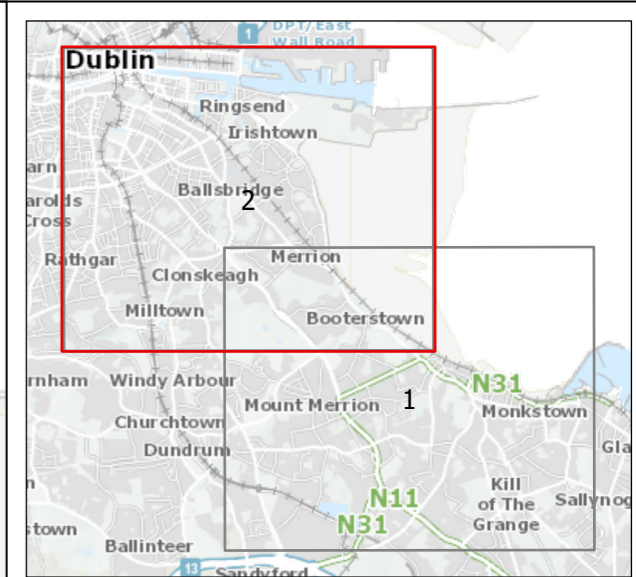
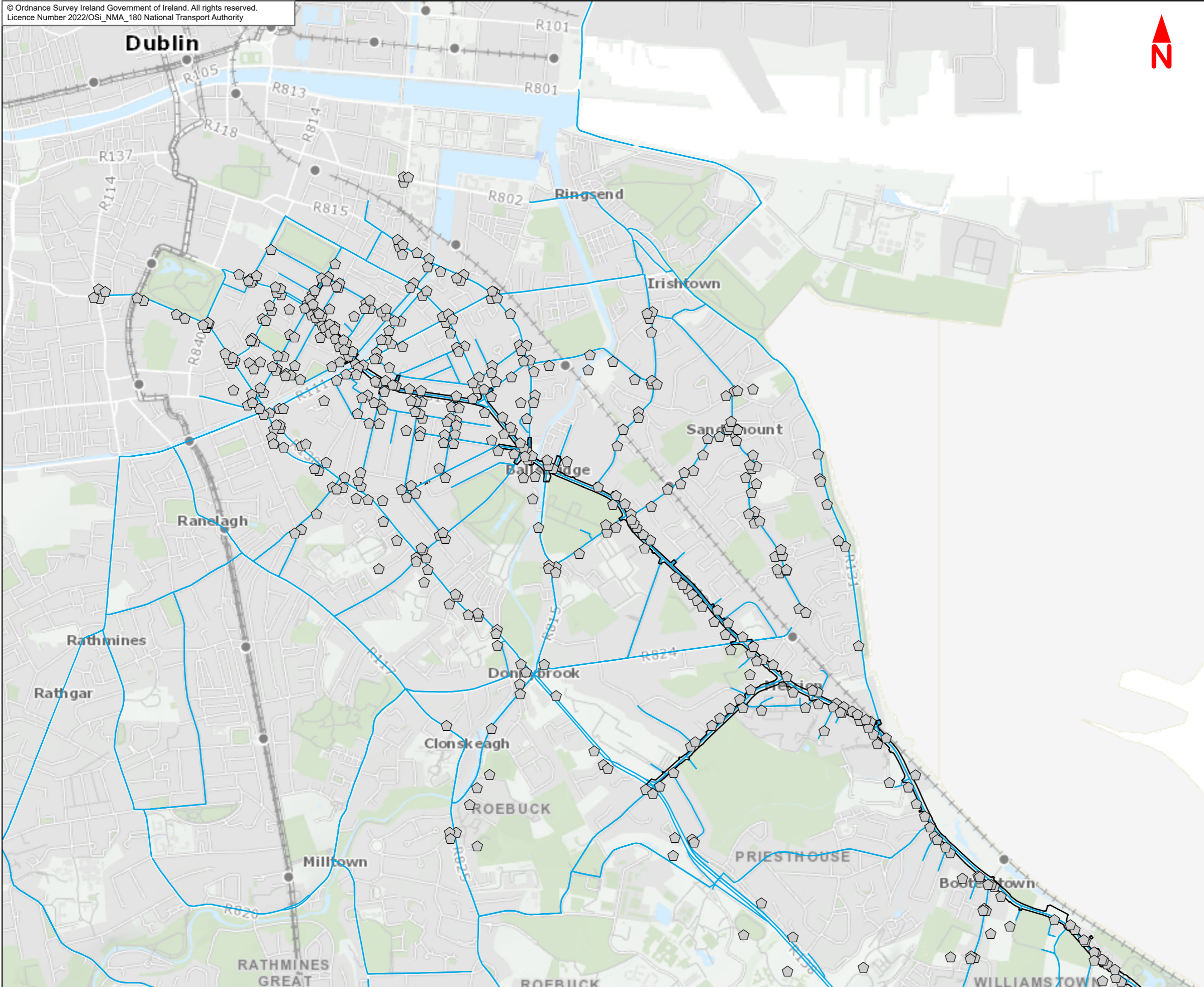
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

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Client NTA Udarás Náisiúnta Iompair National Transport Authority		Consultant JACOBS ARUP SYSTRA		
Date 02/02/2022	Scale @ A3 1:20 000	Drawn LF	Checked SW	Approved DK
Project Code BCIDE	Originator Code JAC	QMS Code		








Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS				
Drawing Title Belfield / Blackrock to City Centre Core Bus Corridor Scheme Figure 7.5 Modelled Annual Mean PM _{2.5} Impacts (µg/m ³) due to Belfield/Blackrock to City Centre Core Bus Corridor Scheme (2028)				
Drawing File Name BCIDE-JAC-ENV_AQ-1415_XX_00-DR-GG-0501	Sheet Number 1 of 2	Status A	Rev M01	



Legend :

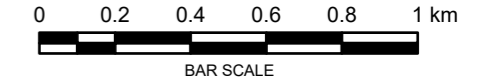
-  Belfield/Blackrock to City Centre Core Bus Corridor Scheme
-  Modelled Road Network

Significance of the modelled change in the annual mean PM_{2.5} concentration due to Belfield/Blackrock to City Centre Core Bus Corridor Scheme (2028)

-  Negligible
-  Slight Adverse
-  Moderate Adverse
-  Substantial Adverse
-  Slight Beneficial
-  Moderate Beneficial
-  Substantial Beneficial

PM_{2.5} Annual Mean Limit Value: 25 µg/m³

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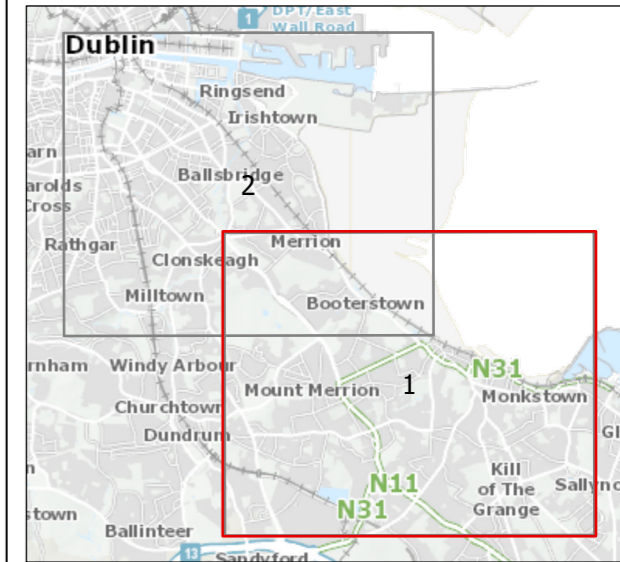
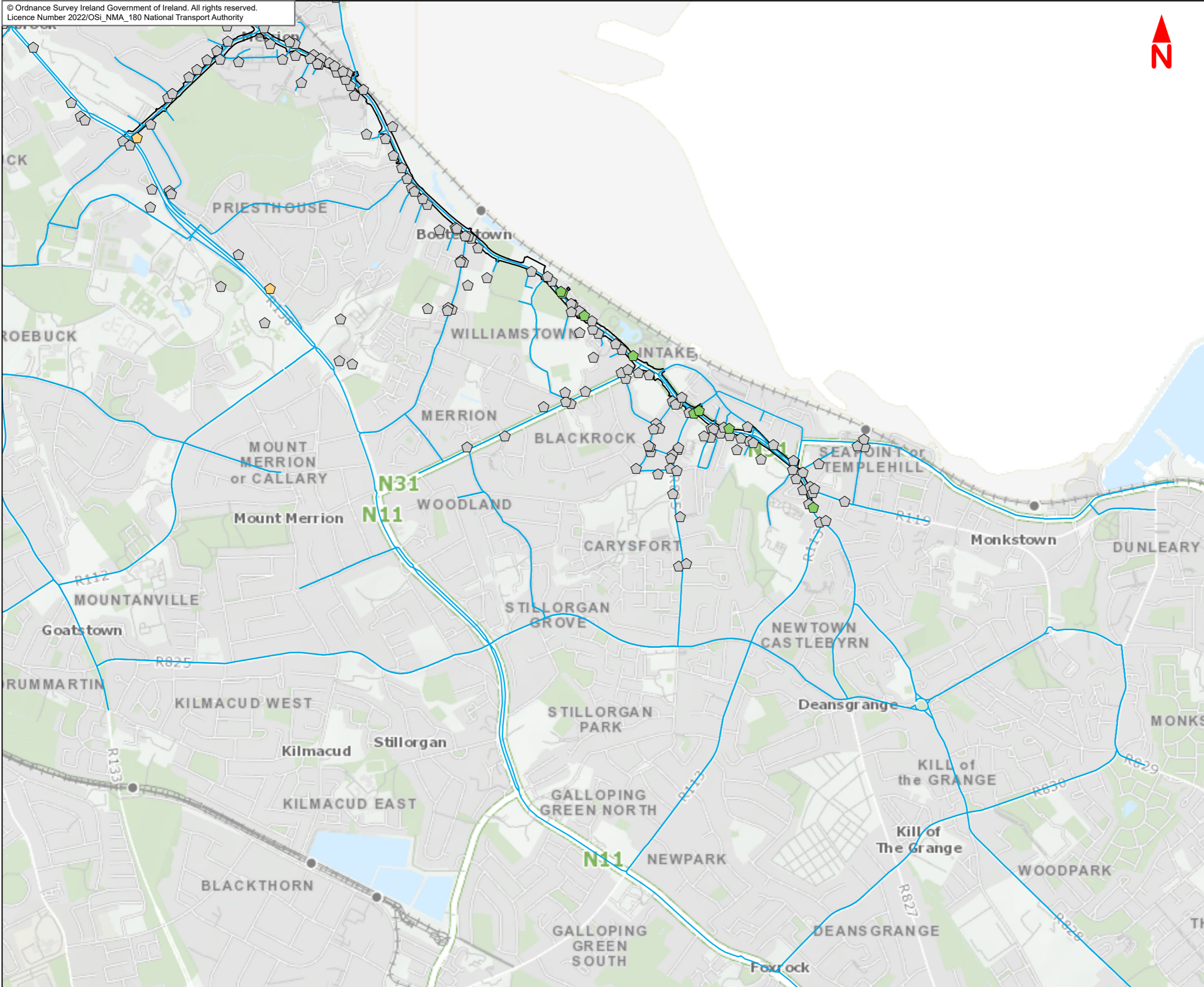
Rev	Date	Drn	Chk'd	App'd	Description
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Client NTA Udarás Náisiúnta Iompair National Transport Authority		Consultant JACOBS ARUP SYSTRA		
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Project Code BCIDE	Originator Code JAC	QMS Code		

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS				
Drawing Title Belfield / Blackrock to City Centre Core Bus Corridor Scheme Figure 7.5 Modelled Annual Mean PM _{2.5} Impacts (µg/m ³) due to Belfield/Blackrock to City Centre Core Bus Corridor Scheme (2028)				
Drawing File Name BCIDE-JAC-ENV_AQ-1415_XX_00-DR-GG-0502	Sheet Number 2 of 2	Status A	Rev M01	



7.6
Modelled Annual Mean
NO₂ Impacts (µg/m³) due to
Belfield / Blackrock to City Centre
Core Bus Corridor Scheme -
Construction Phase (2024)



Legend :

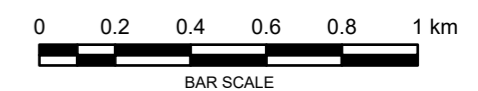
- Belfield/Blackrock to City Centre Core Bus Corridor Scheme
- Modelled Road Network

Significance of the modelled change in the annual mean NO₂ concentration due to Belfield/Blackrock to City Centre Core Bus Corridor Scheme - Construction Phase (2024)

- Negligible
- Slight Adverse
- Moderate Adverse
- Substantial Adverse
- Slight Beneficial
- Moderate Beneficial
- Substantial Beneficial

NO₂ Annual Mean Limit Value: 40 µg/m³

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

Consultant: **JACOBS ARUP SYSTRA**

Date: 02/02/2022 | Scale @ A3: 1:20 000

Project Code: BCIDE | Originator Code: JAC

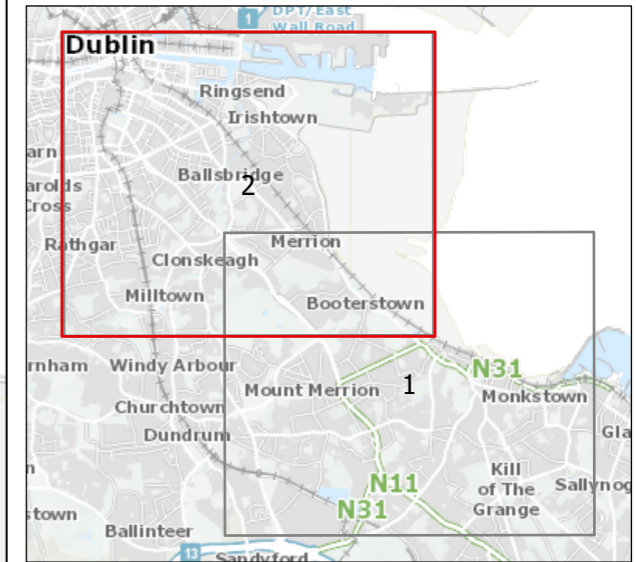
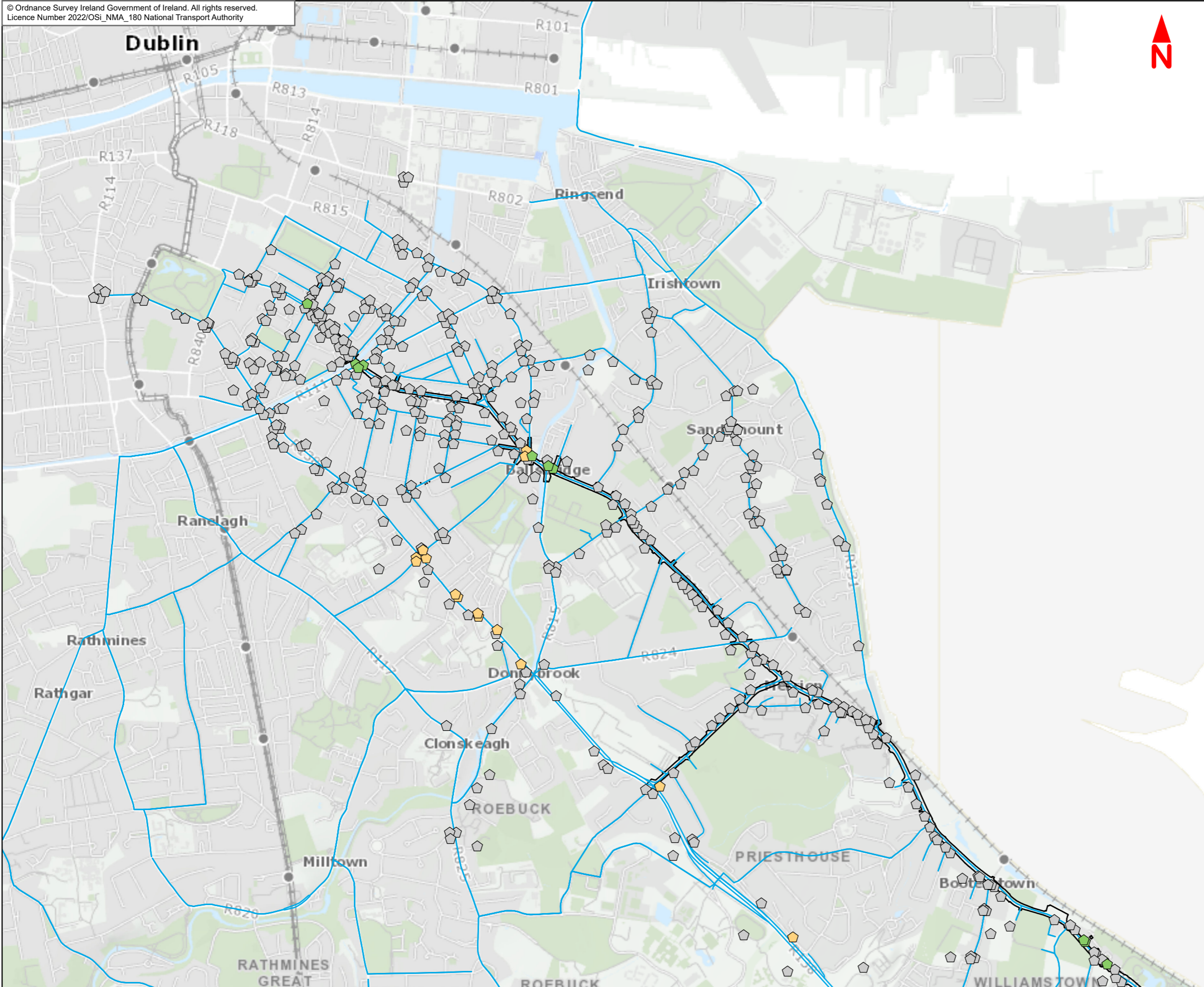
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QMS Code: _____

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

Drawing Title: **Belfield/Blackrock to City Centre Core Bus Corridor Scheme**
Figure 7.6
Modelled Annual Mean NO₂ Impacts (µg/m³) due to Belfield/Blackrock to City Centre Core Bus Corridor Scheme - Construction Phase (2024)

Drawing File Name: BCIDE-JAC-ENV_AQ-1415_XX_00-DR-GG-0601 | Sheet Number: 1 of 2 | Status: A | Rev: M01



Legend :

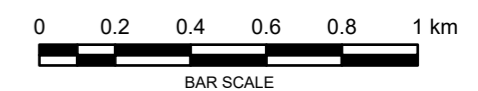
- Belfield/Blackrock to City Centre Core Bus Corridor Scheme
- Modelled Road Network

Significance of the modelled change in the annual mean NO₂ concentration due to Belfield/Blackrock to City Centre Core Bus Corridor Scheme - Construction Phase (2024)

- Negligible
- Slight Adverse
- Moderate Adverse
- Substantial Adverse
- Slight Beneficial
- Moderate Beneficial
- Substantial Beneficial

NO₂ Annual Mean Limit Value: 40 µg/m³

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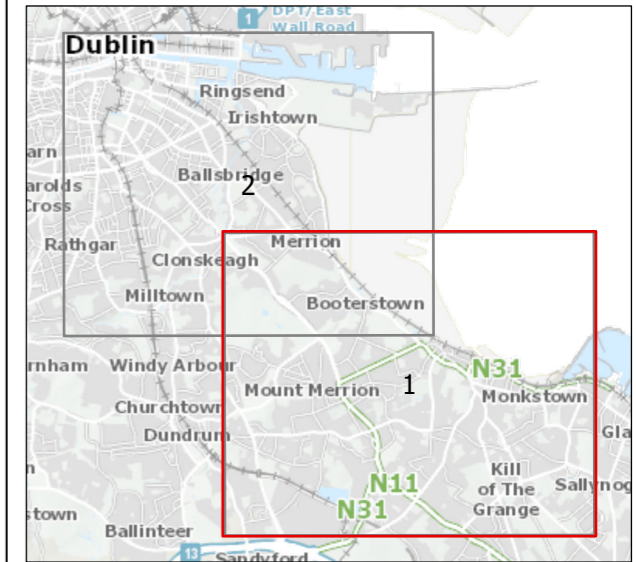
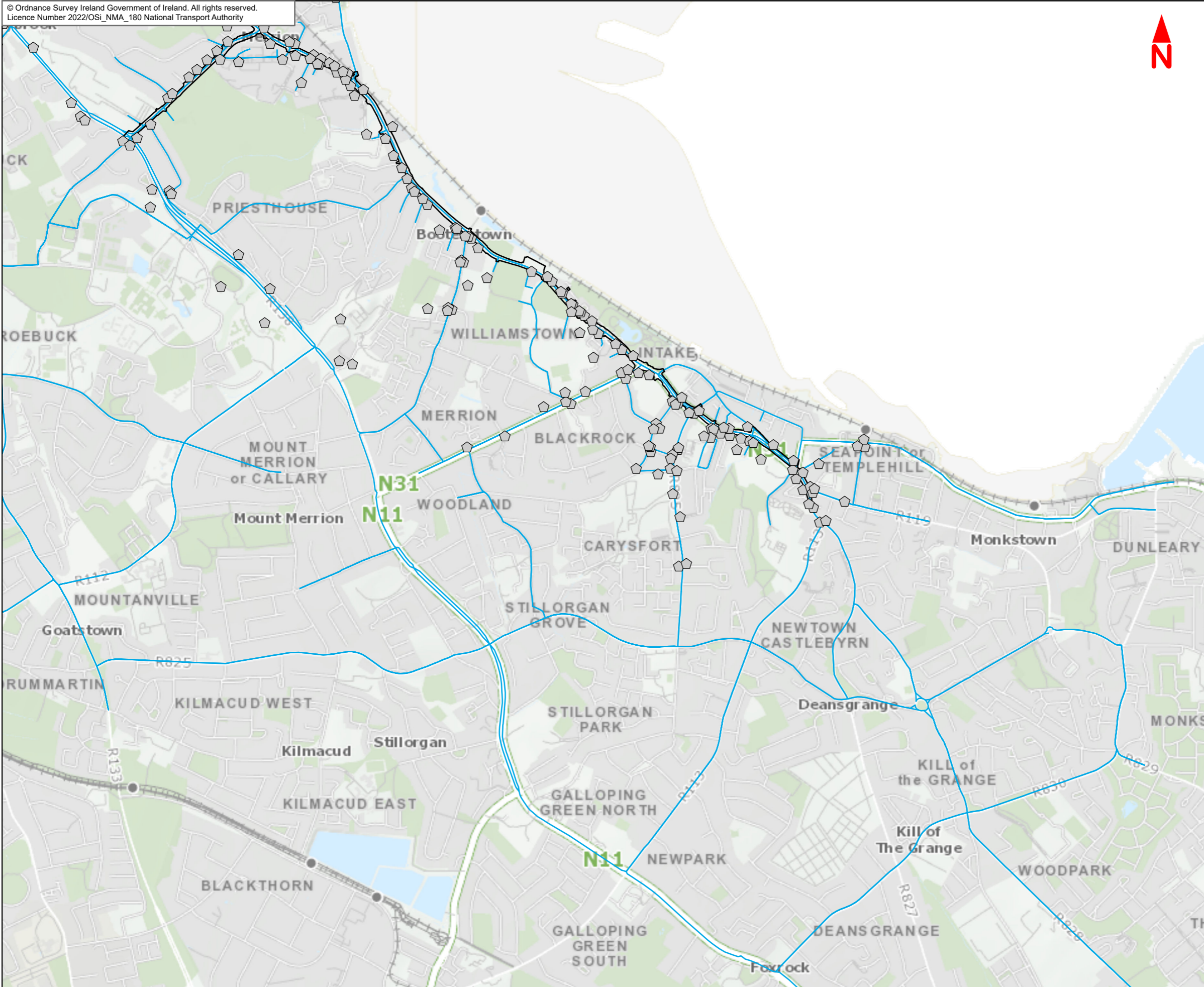
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Client NTA Udarás Náisiúnta Iompair National Transport Authority		Consultant JACOBS ARUP SYSTRA		
Date 02/02/2022	Scale @ A3 1:20 000	Drawn LF	Checked SW	Approved DK
Project Code BCIDE	Originator Code JAC	QMS Code		

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS				
Drawing Title Belfield/Blackrock to City Centre Core Bus Corridor Scheme Figure 7.6 Modelled Annual Mean NO ₂ Impacts (µg/m ³) due to Belfield/Blackrock to City Centre Core Bus Corridor Scheme - Construction Phase (2024)				
Drawing File Name BCIDE-JAC-ENV_AQ-1415_XX_00-DR-GG-0602	Sheet Number 2 of 2	Status A	Rev M01	



7.7
Modelled Annual Mean
PM₁₀ Impacts ($\mu\text{g}/\text{m}^3$) due to
Belfield / Blackrock to City Centre
Core Bus Corridor Scheme -
Construction Phase (2024)



Legend :

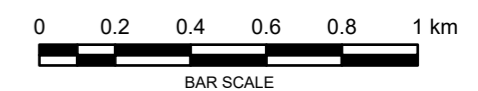
- Belfield/Blackrock to City Centre Core Bus Corridor Scheme
- Modelled Road Network

Significance of the modelled change in the annual mean PM₁₀ concentration due to Belfield/Blackrock to City Centre Core Bus Corridor Scheme - Construction Phase (2024)

- Negligible
- Slight Adverse
- Moderate Adverse
- Substantial Adverse
- Slight Beneficial
- Moderate Beneficial
- Substantial Beneficial

PM₁₀ Annual Mean Limit Value: 40 µg/m³

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National Transport Authority

Consultant: **JACOBS ARUP SYSTRA**

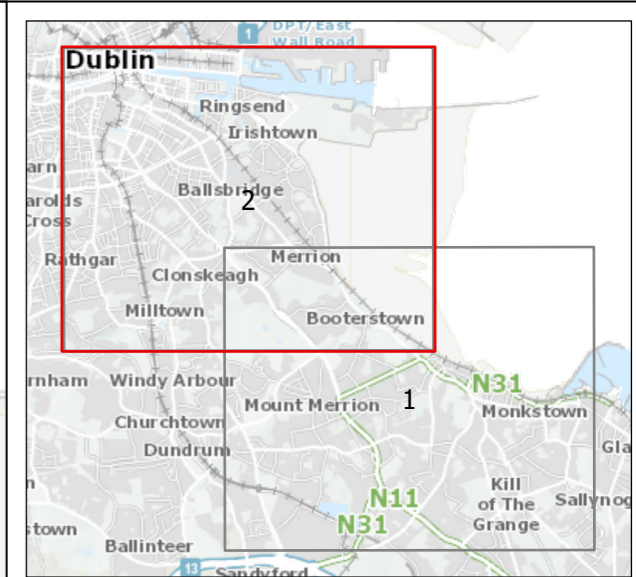
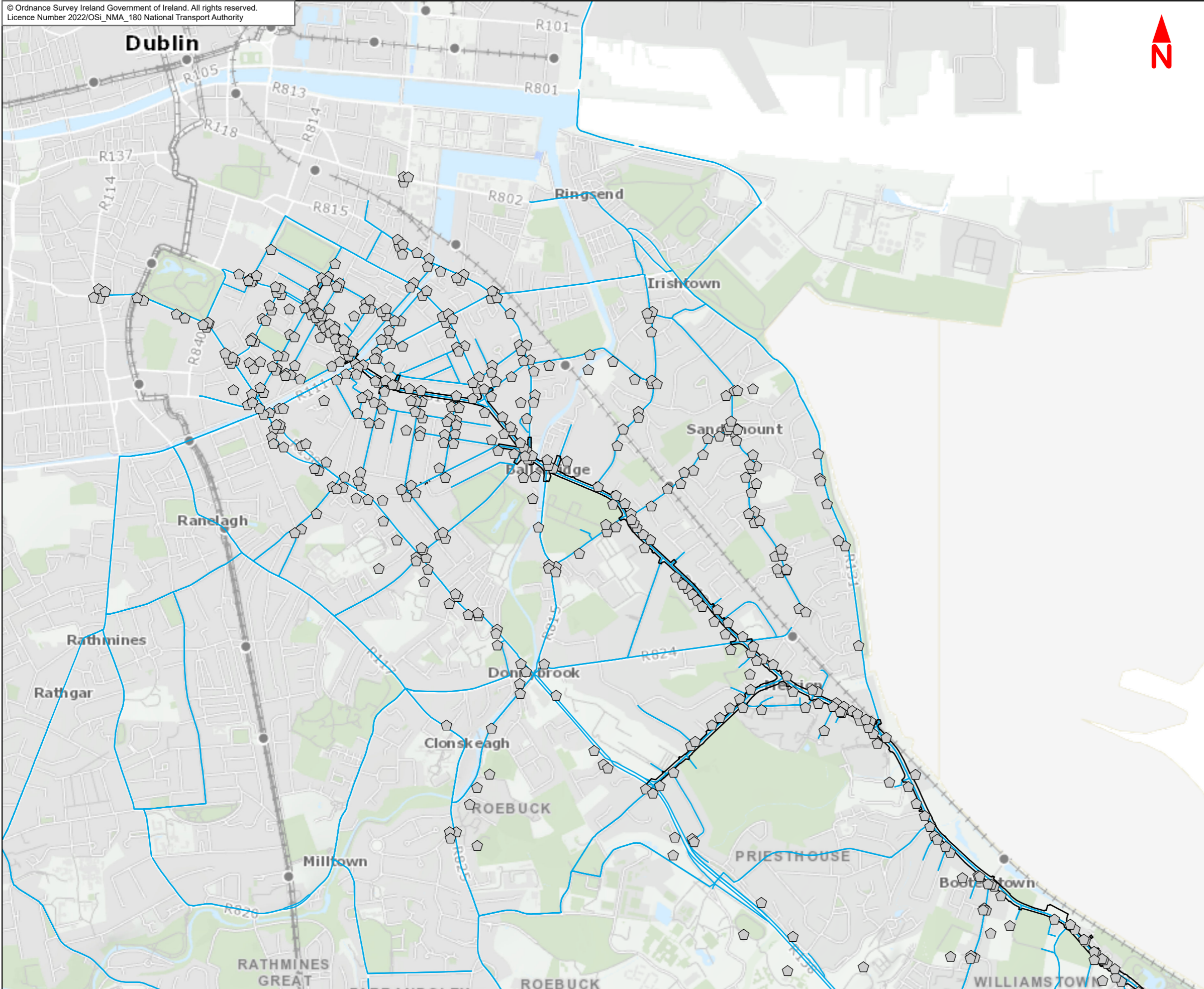
Date: 02/02/2022 | Scale @ A3: 1:20 000

Project Code: BCIDE | Originator Code: JAC

Drawn: LF | Checked: SW | Approved: DK

QMS Code: _____

Programme Title: BUSCONNECTS DUBLIN			
CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title: Belfield/Blackrock to City Centre Core Bus Corridor Scheme			
Figure 7.7			
Modelled Annual Mean PM ₁₀ Impacts (µg/m ³) due to Belfield/Blackrock to City Centre Core Bus Corridor Scheme - Construction Phase (2024)			
Drawing File Name: BCIDE-JAC-ENV_AQ-0304_XX_00-DR-GG-0701	Sheet Number: 1 of 2	Status: S3	Rev: L01



Legend :

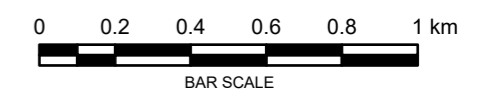
- Belfield/Blackrock to City Centre Core Bus Corridor Scheme
- Modelled Road Network

Significance of the modelled change in the annual mean PM₁₀ concentration due to Belfield/Blackrock to City Centre Core Bus Corridor Scheme - Construction Phase (2024)

- Negligible
- Slight Adverse
- Moderate Adverse
- Substantial Adverse
- Slight Beneficial
- Moderate Beneficial
- Substantial Beneficial

PM₁₀ Annual Mean Limit Value: 40 µg/m³

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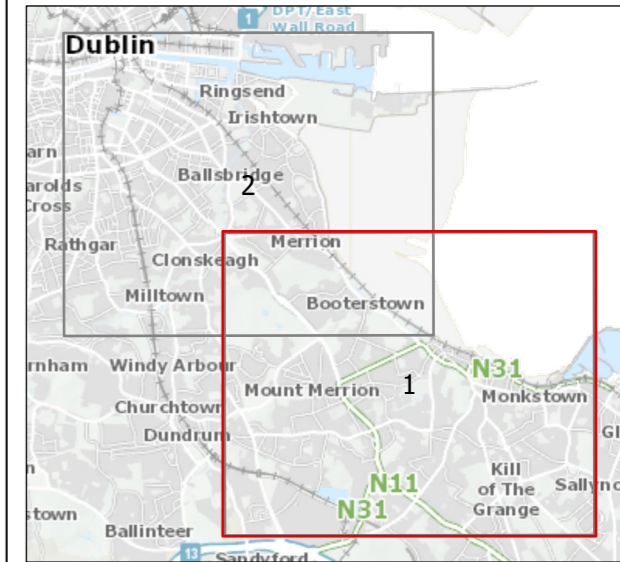
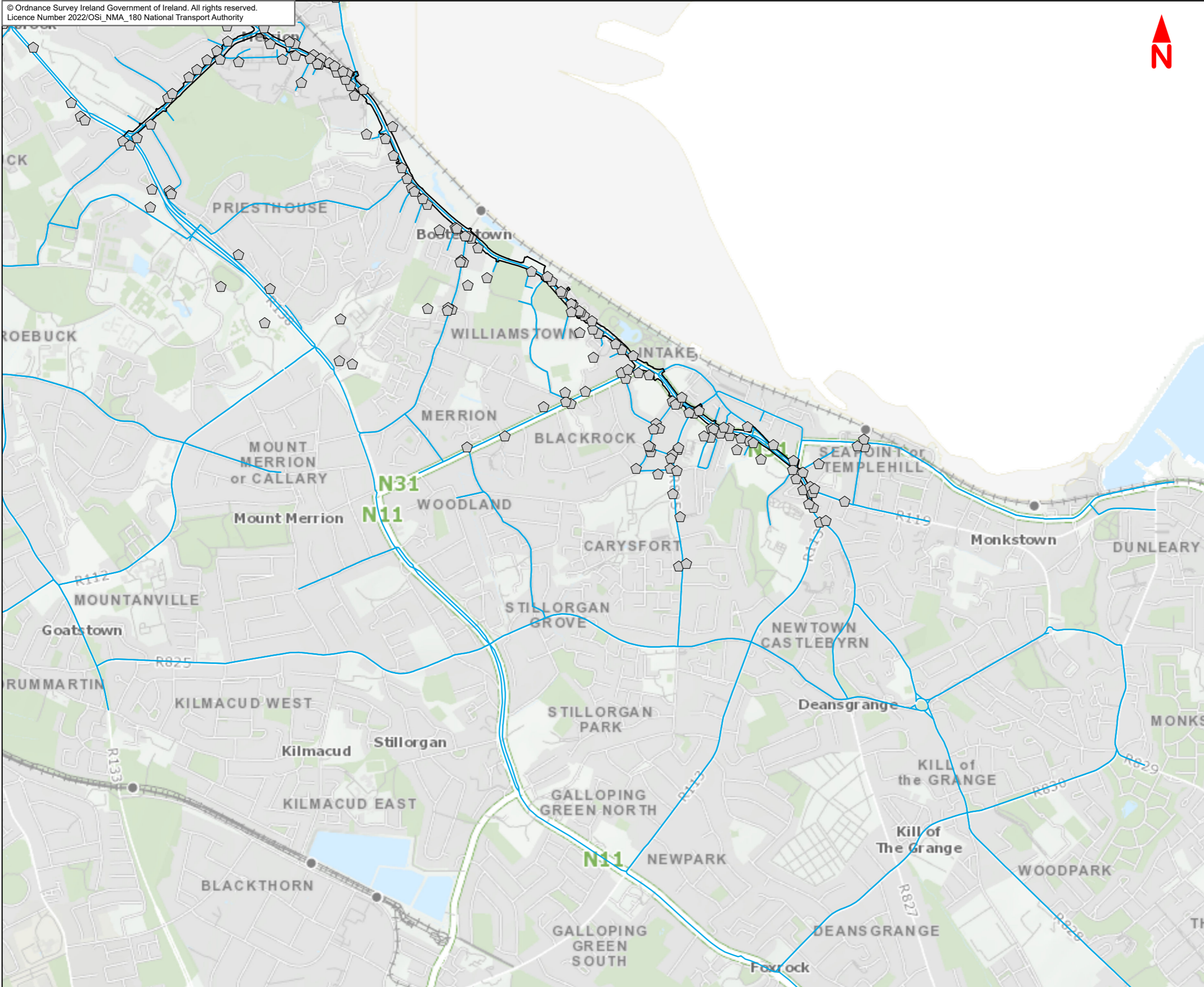
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Client NTA Udarás Náisiúnta Iompair National Transport Authority		Consultant JACOBS ARUP SYSTRA		
Date 02/02/2022	Scale @ A3 1:20 000	Drawn LF	Checked SW	Approved DK
Project Code BCIDE	Originator Code JAC	QMS Code		

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS				
Drawing Title Belfield/Blackrock to City Centre Core Bus Corridor Scheme Figure 7.7 Modelled Annual Mean PM ₁₀ Impacts (µg/m ³) due to Belfield/Blackrock to City Centre Core Bus Corridor Scheme - Construction Phase (2024)				
Drawing File Name BCIDE-JAC-ENV_AQ-0304_XX_00-DR-GG-0702	Sheet Number 2 of 2	Status S3	Rev L01	



7.8
Modelled Annual Mean
PM_{2.5} Impacts ($\mu\text{g}/\text{m}^3$) due to
Belfield / Blackrock to City Centre
Core Bus Corridor Scheme -
Construction Phase (2024)



Legend :

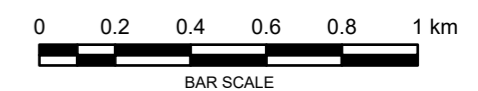
- Belfield/Blackrock to City Centre Core Bus Corridor Scheme
- Modelled Road Network

Significance of the modelled change in the annual mean PM_{2.5} concentration due to Belfield/Blackrock to City Centre Core Bus Corridor Scheme (2024)

- Negligible
- Slight Adverse
- Moderate Adverse
- Substantial Adverse
- Slight Beneficial
- Moderate Beneficial
- Substantial Beneficial

PM_{2.5} Annual Mean Limit Value: 25 µg/m³

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Rev	Date	Drn	Chk'd	App'd	Description
M01	Feb 2022	LF	SW	DK	ISSUE FOR PHASE 4 : PLANNING

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

Consultant: **JACOBS ARUP SYSTRA**

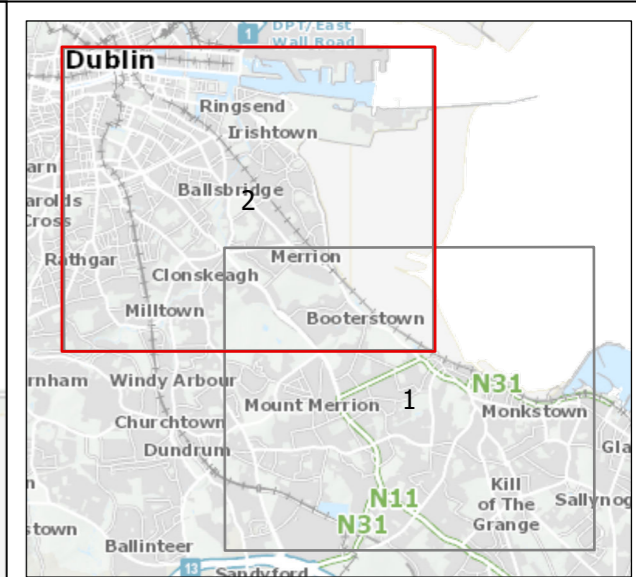
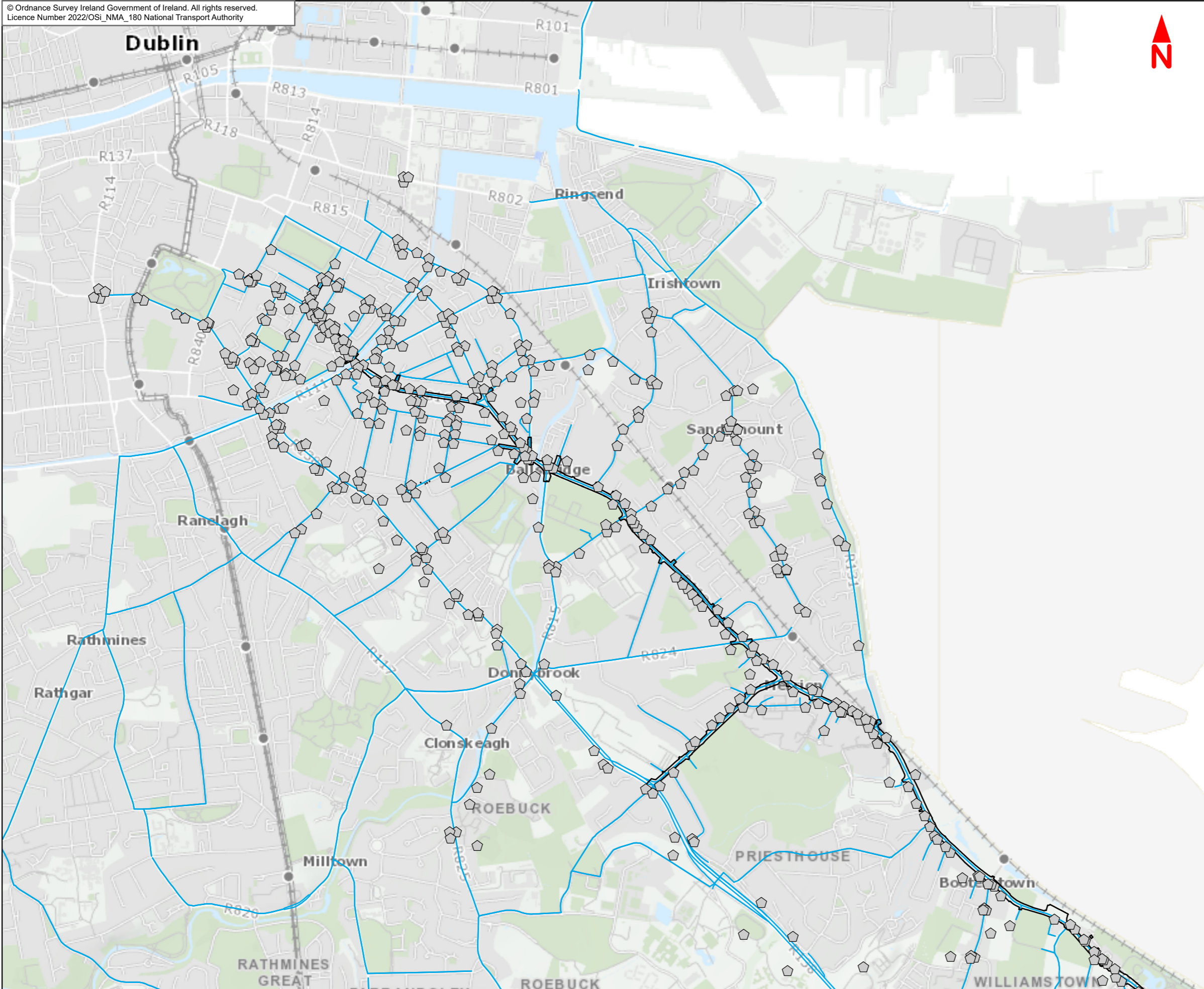
Date: 02/02/2022 | Scale @ A3: 1:20 000

Project Code: BCIDE | Originator Code: JAC

Drawn: LF | Checked: SW | Approved: DK

QMS Code: _____

Programme Title: BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title: Belfield / Blackrock to City Centre Core Bus Corridor Scheme			
Figure 7.8: Modelled Annual Mean PM_{2.5} Impacts (µg/m³) due to Belfield/Blackrock to City Centre Core Bus Corridor Scheme - Construction Phase (2024)			
Drawing File Name: BCIDE-JAC-ENV_AQ-1415_XX_00-DR-GG-0801	Sheet Number: 1 of 2	Status: A	Rev: M01



Legend :

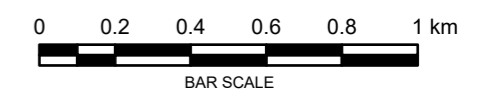
- Belfield/Blackrock to City Centre Core Bus Corridor Scheme
- Modelled Road Network

Significance of the modelled change in the annual mean PM_{2.5} concentration due to Belfield/Blackrock to City Centre Core Bus Corridor Scheme (2024)

- Negligible
- Slight Adverse
- Moderate Adverse
- Substantial Adverse
- Slight Beneficial
- Moderate Beneficial
- Substantial Beneficial

PM_{2.5} Annual Mean Limit Value: 25 µg/m³

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Client NTA Udarás Náisiúnta Iompair National Transport Authority		Consultant JACOBS ARUP SYSTRA		
Date 02/02/2022	Scale @ A3 1:20 000	Drawn LF	Checked SW	Approved DK
Project Code BCIDE	Originator Code JAC	QMS Code		

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS				
Drawing Title Belfield / Blackrock to City Centre Core Bus Corridor Scheme Figure 7.8 Modelled Annual Mean PM _{2.5} Impacts (µg/m ³) due to Belfield/Blackrock to City Centre Core Bus Corridor Scheme - Construction Phase (2024)				
Drawing File Name BCIDE-JAC-ENV_AQ-1415_XX_00-DR-GG-0802	Sheet Number 2 of 2	Status A	Rev M01	