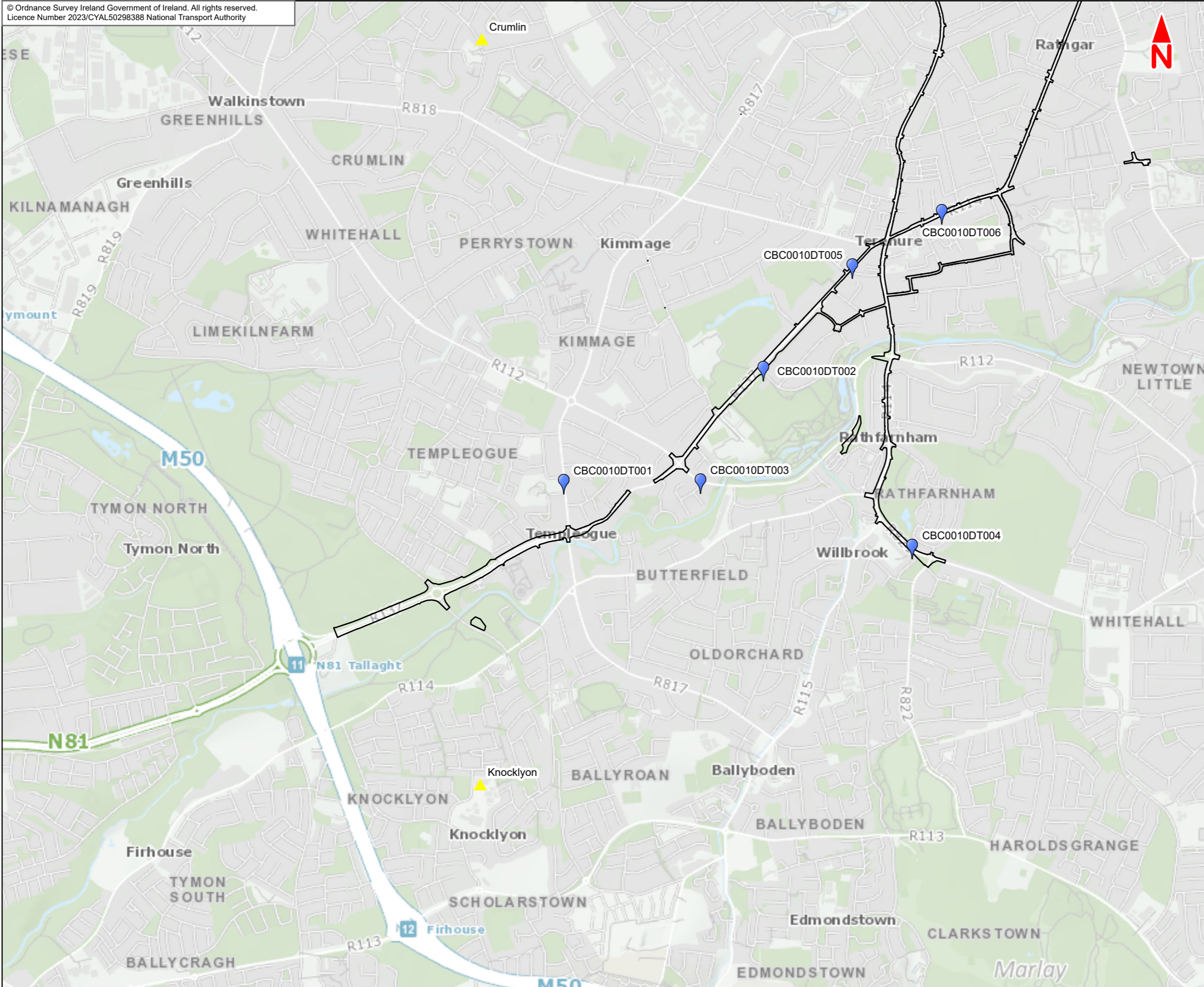




**Chapter 07**  
Air Quality Figures

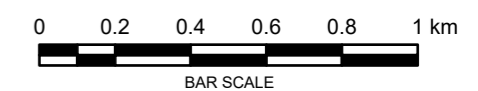
# 7.1 Monitoring Locations





- Legend :**
- Templeogue / Rathfarnham to City Centre Core Bus Corridor Scheme
  - Diffusion Tube
  - EPA Past Monitoring Site

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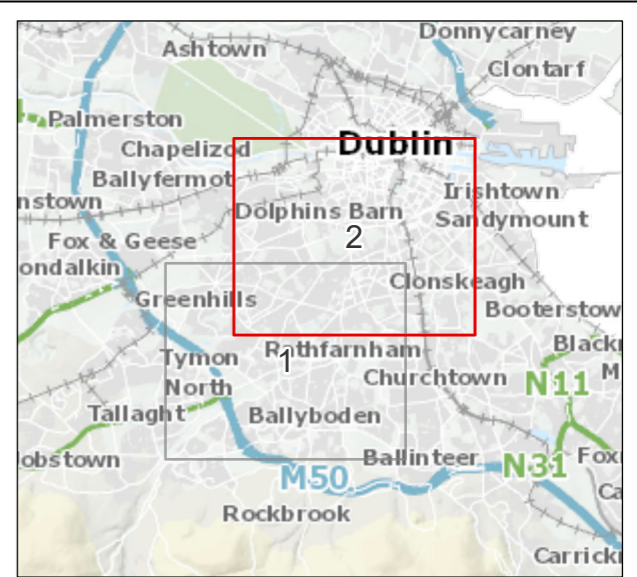
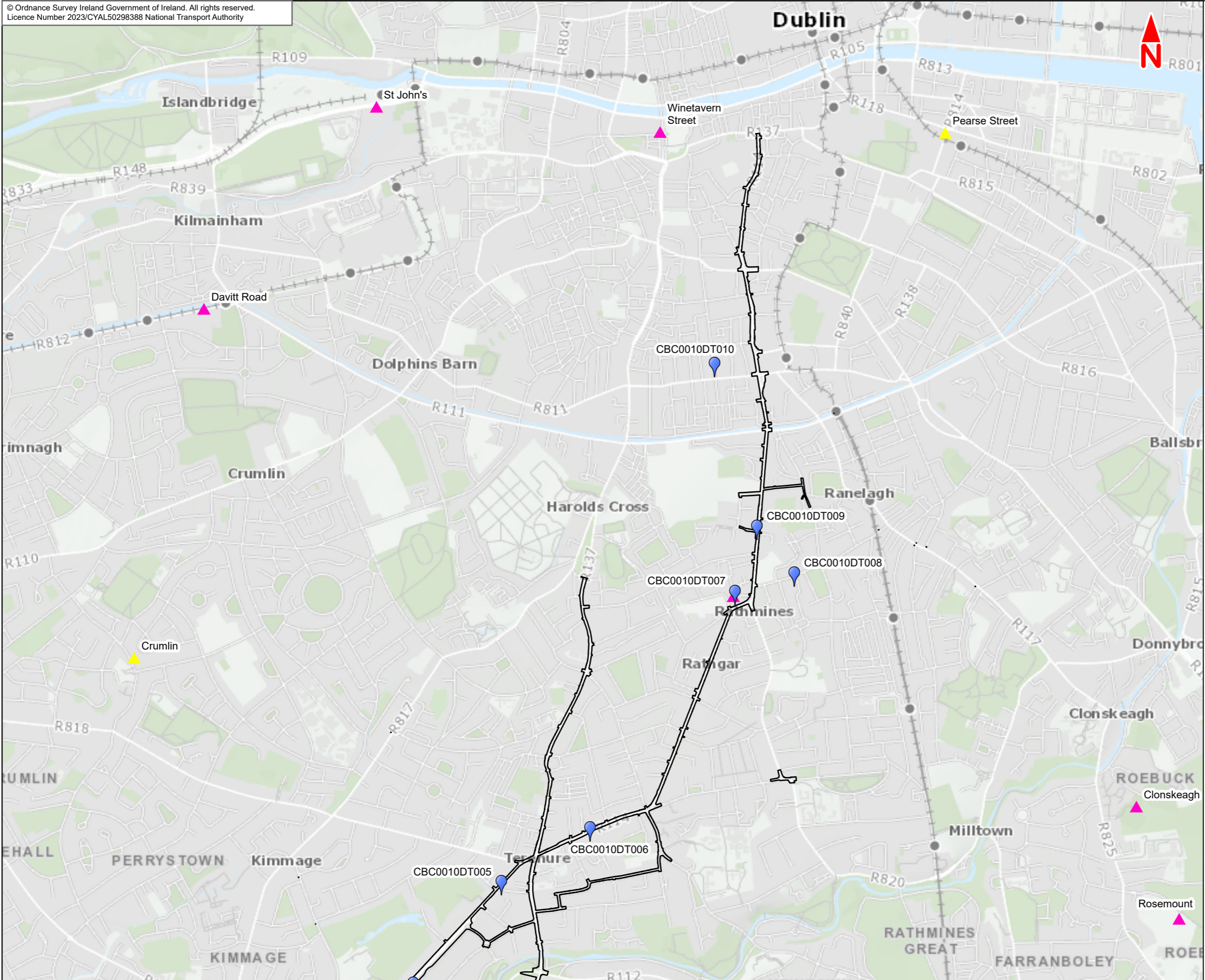
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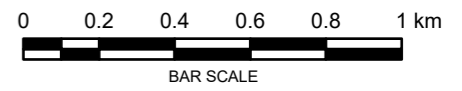
Client <b>NTA</b> Údarás Náisiúnta Iompair National Transport Authority		Consultant <b>JACOBS</b> <b>ARUP SYSTRA</b>		
Date 09/02/2023	Scale @ A3 1:20 000	Drawn LF	Checked SW	Approved DK
Project Code BCIDE	Originator Code JAC	QMS Code		

Programme Title <b>BUSCONNECTS DUBLIN</b> <b>CORE BUS CORRIDORS INFRASTRUCTURE WORKS</b>				
Drawing Title Templeogue / Rathfarnham to City Centre Core Bus Corridor Scheme Figure 7.1 Monitoring Locations				
Drawing File Name BCIDE-JAC-ENV_AQ-1012_XX_00-DR-GG-0101	Sheet Number 1 of 2	Status A	Rev M01	



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

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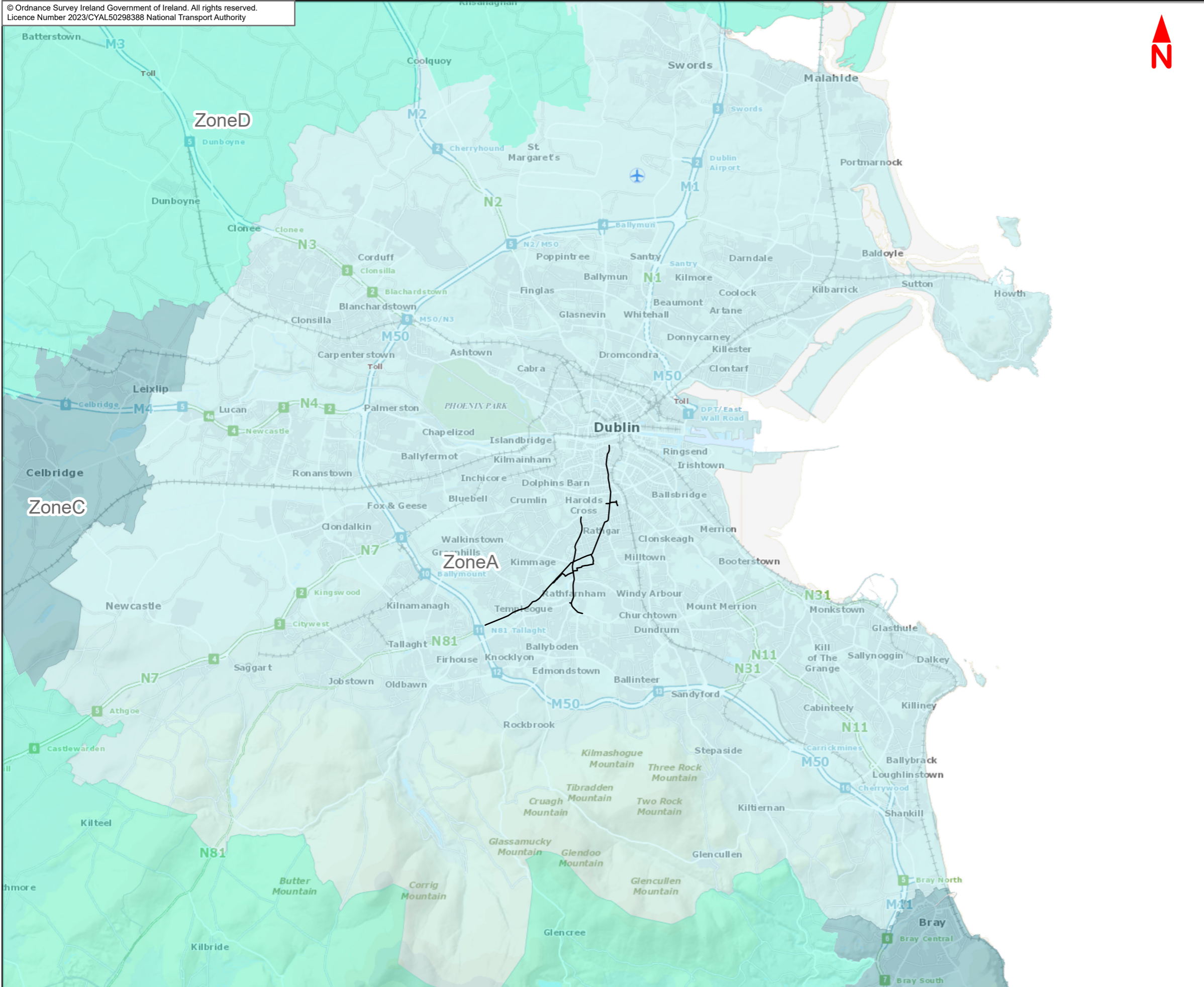
Client  
**NTA**  
Udarás Náisiúnta Iompair  
National Transport Authority

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

Programme Title <b>BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS</b>				
Drawing Title Templeogue / Rathfarnham to City Centre Core Bus Corridor Scheme Figure 7.1 Monitoring Locations				
Date 09/02/2023	Scale @ A3 1:20 000	Drawn LF	Checked SW	Approved DK
Project Code BCIDE	Originator Code JAC	QMS Code		
Drawing File Name BCIDE-JAC-ENV_AQ-1012_XX_00-DR-GG-0102	Sheet Number 2 of 2	Status A	Rev M01	

## 7.2 Air Quality Zones





- Legend :**
- Templeogue/Rathfarnham 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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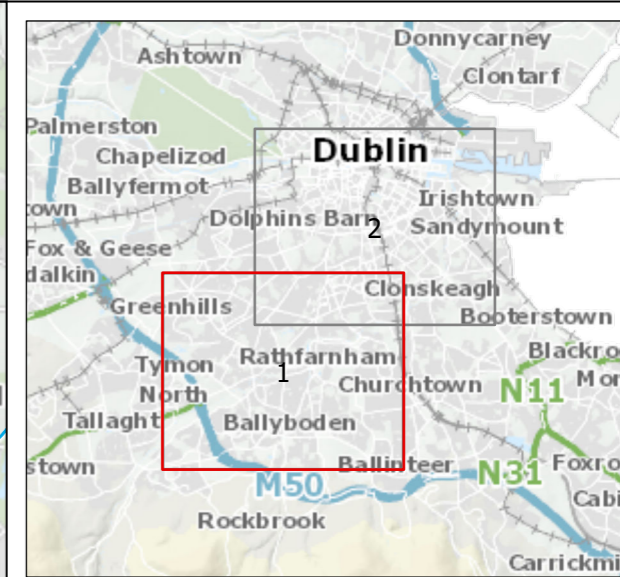
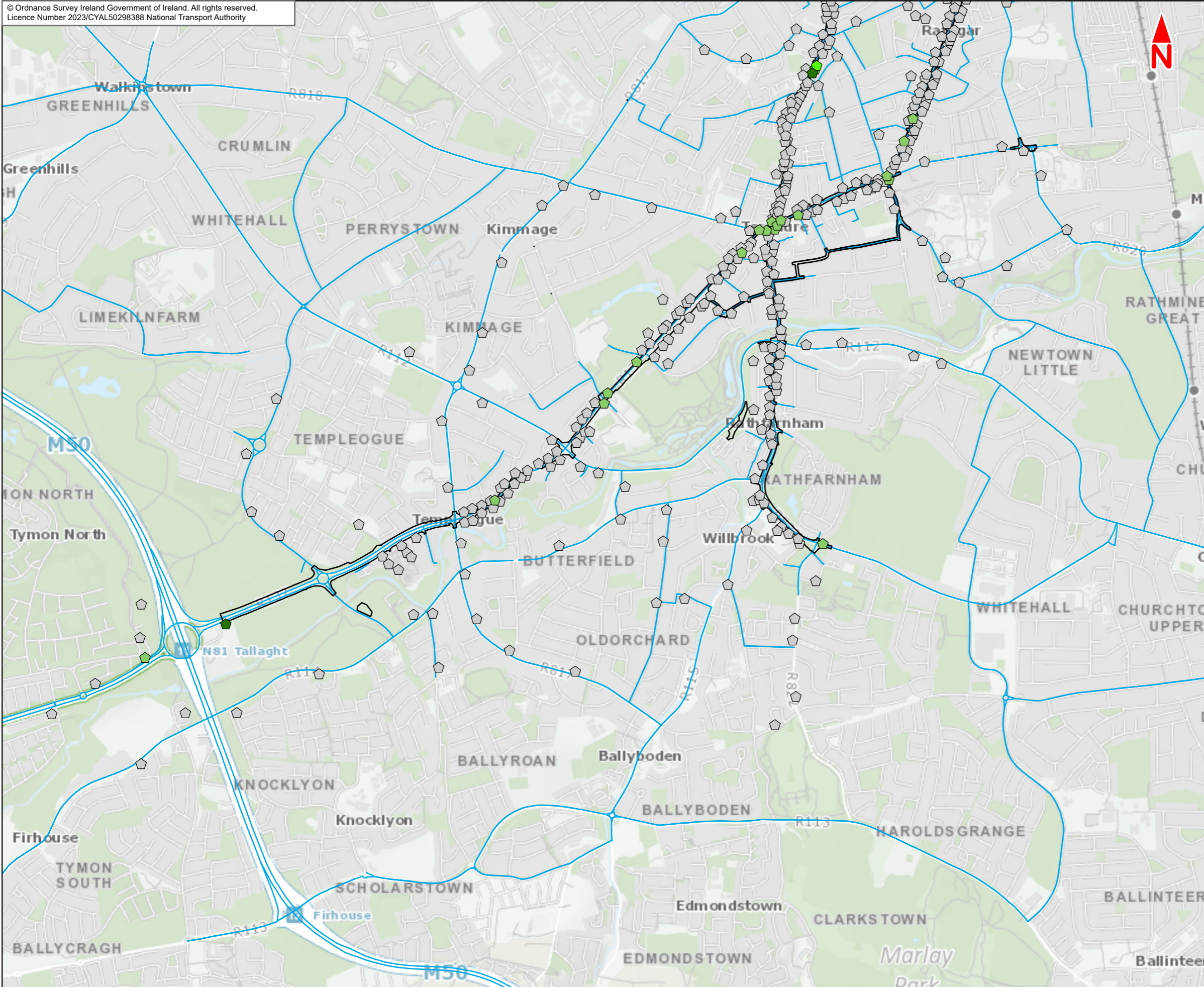
Client  
**NTA**  
Udarás Náisiúnta Iompair  
National Transport Authority

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

Programme Title <b>BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS</b>				
Drawing Title Templeogue/Rathfarnham to City Centre Core Bus Corridor Scheme Figure 7.2 Air Quality Zones				
Date 09/02/2023	Scale @ A3 1:125 000	Drawn LF	Checked SW	Approved DK
Project Code BCIDE	Originator Code JAC	QMS Code		
Drawing File Name BCIDE-JAC-ENV_AQ-1012_XX_00-DR-GG-0200	Sheet Number 1 of 1	Status A	Rev M01	

## 7.3

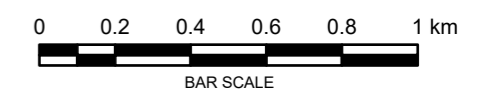
Modelled Annual Mean  
NO<sub>2</sub> Impacts (µg/m<sup>3</sup>) due to  
Templeogue/Rathfarnham to City  
Centre Core Bus Corridor Scheme  
(2028)



- Legend :**
- Templeogue/Rathfarnham to City Centre Core Bus Corridor Scheme
  - Modelled Road Network
- Significance of the modelled change in the annual mean NO<sub>2</sub> concentration due to Templeogue/Rathfarnham to City Centre Core Bus Corridor Scheme (2028)**
- Negligible
  - Slight Adverse
  - Moderate Adverse
  - Substantial Adverse
  - Slight Beneficial
  - Moderate Beneficial
  - Substantial Beneficial

NO<sub>2</sub> Annual Mean Limit Value: 40 µg/m<sup>3</sup>

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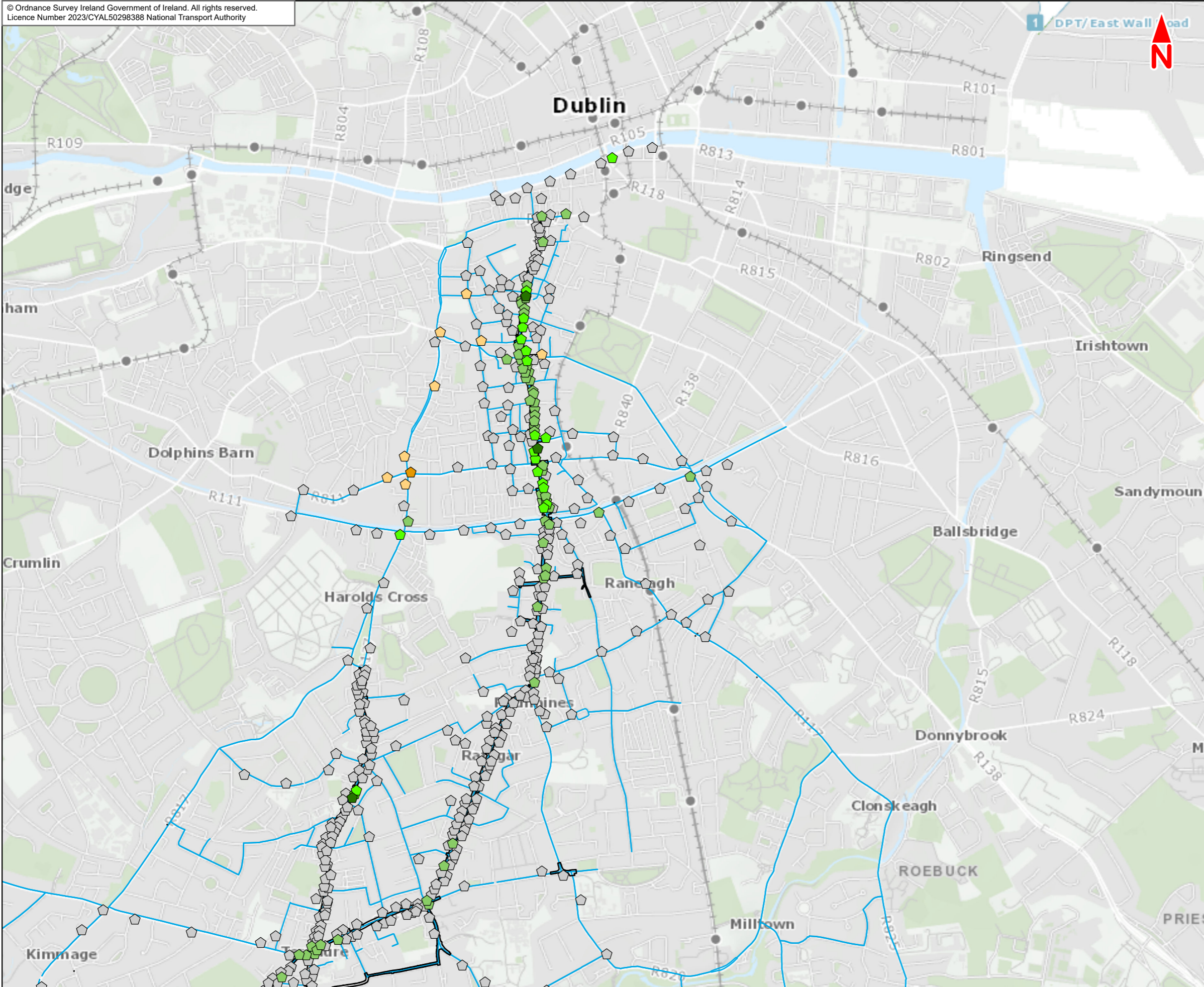
Client  
**NTA**  
Udarás Náisiúnta Iompair  
National Transport Authority

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

Programme Title <b>BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS</b>				
Drawing Title Templeogue / Rathfarnham to City Centre Core Bus Corridor Scheme Figure 7.3 Modelled Annual Mean NO <sub>2</sub> Impacts (µg/m <sup>3</sup> ) due to Templeogue/Rathfarnham to City Centre Core Bus Corridor Scheme (2028)				
Drawing File Name BCIDE-JAC-ENV_AQ-1012_XX_00-DR-GG-0301	Sheet Number 1 of 2	Status A	Rev M01	

Date 09/02/2023	Scale @ A3 1:20 000	Drawn LF	Checked SW	Approved DK
Project Code BCIDE	Originator Code JAC	QMS Code		





**Legend :**

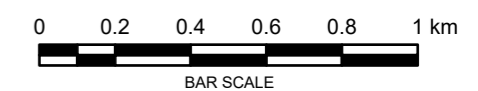
- Templeogue/Rathfarnham to City Centre Core Bus Corridor Scheme
- Modelled Road Network

**Significance of the modelled change in the annual mean NO<sub>2</sub> concentration due to Templeogue/Rathfarnham to City Centre Core Bus Corridor Scheme (2028)**

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

NO<sub>2</sub> Annual Mean Limit Value: 40 µg/m<sup>3</sup>

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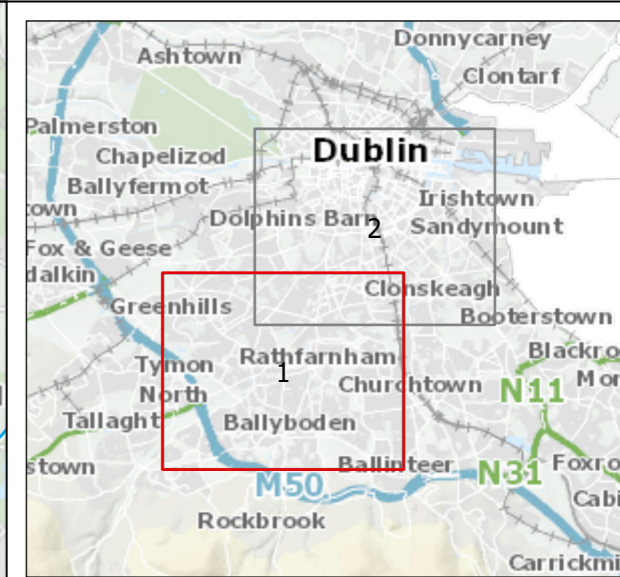
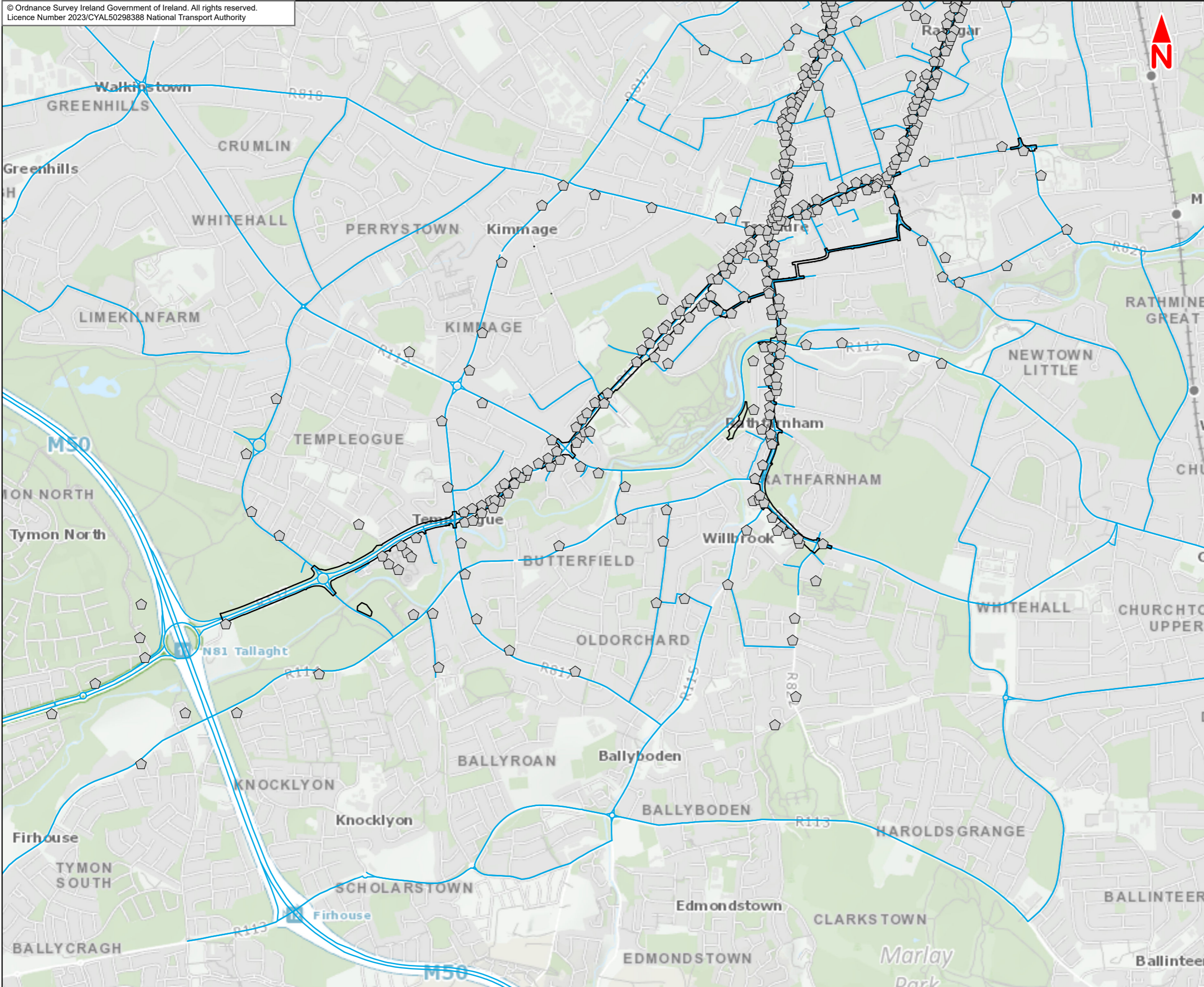
Consultant  
**JACOBS**  
**ARUP SYSTRA**

Programme Title <b>BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS</b>				
Drawing Title Templeogue / Rathfarnham to City Centre Core Bus Corridor Scheme Figure 7.3 Modelled Annual Mean NO <sub>2</sub> Impacts (µg/m <sup>3</sup> ) due to Templeogue/Rathfarnham to City Centre Core Bus Corridor Scheme (2028)				
Drawing File Name BCIDE-JAC-ENV_AQ-1012_XX_00-DR-GG-0302	Sheet Number 2 of 2	Status A	Rev M01	

Date 09/02/2023	Scale @ A3 1:20 000	Drawn LF	Checked SW	Approved DK
Project Code BCIDE	Originator Code JAC	QMS Code		



**7.4**  
Modelled Annual Mean  
PM<sub>10</sub> Impacts (µg/m<sup>3</sup>) due to  
Templeogue/Rathfarnham to City  
Centre Core Bus Corridor Scheme  
(2028)



**Legend :**

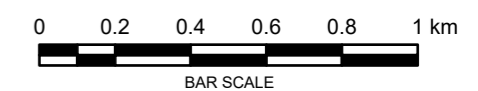
- Templeogue/Rathfarnham to City Centre Core Bus Corridor Scheme
- Modelled Road Network

**Significance of the modelled change in the annual mean PM<sub>10</sub> concentration due to Templeogue/Rathfarnham to City Centre Core Bus Corridor Scheme (2028)**

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

PM<sub>10</sub> Annual Mean Limit Value: 40 µg/m<sup>3</sup>

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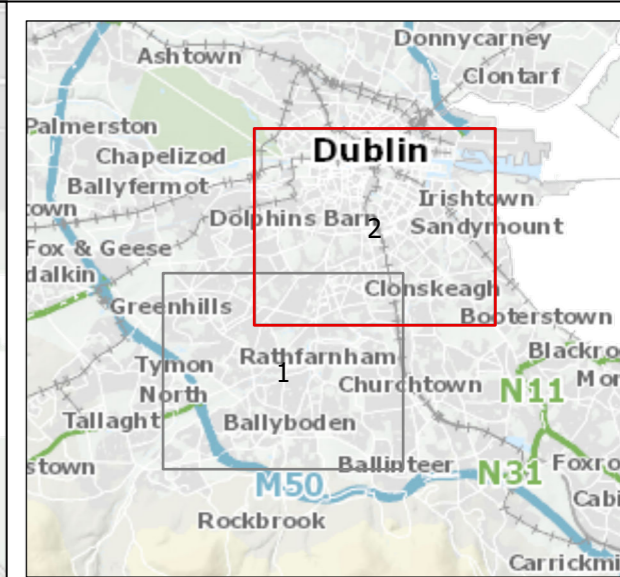
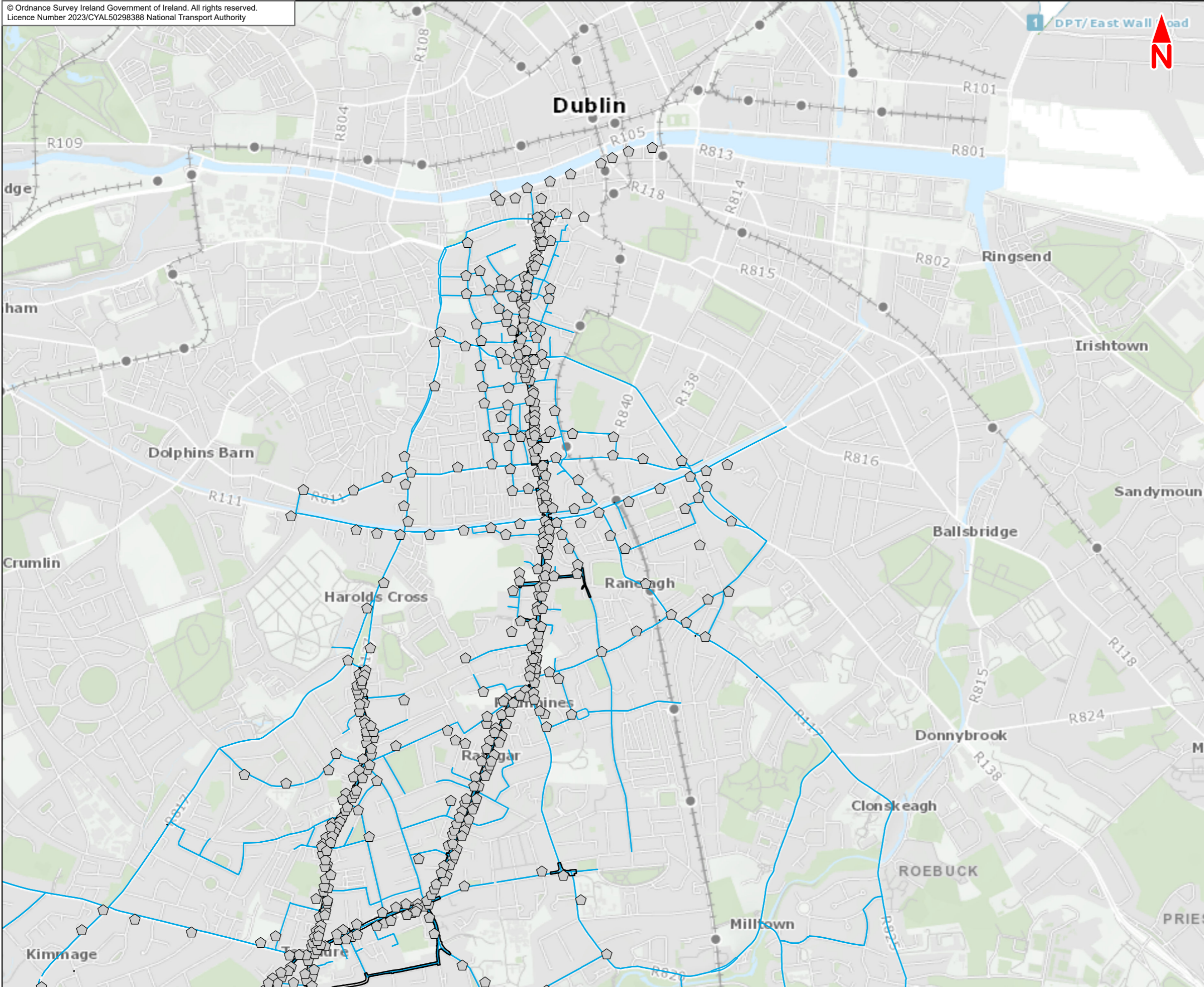
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**NTA**  
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National Transport Authority

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

Programme Title <b>BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS</b>			
Drawing Title Templeogue / Rathfarnham to City Centre Core Bus Corridor Scheme Figure 7.4			
Modelled Annual Mean PM <sub>10</sub> Impacts (µg/m <sup>3</sup> ) due to Templeogue/Rathfarnham to City Centre Core Bus Corridor Scheme (2028)			
Drawing File Name BCIDE-JAC-ENV_AQ-1012_XX_00-DR-GG-0401	Sheet Number 1 of 2	Status A	Rev M01

Date 09/02/2023	Scale @ A3 1:20 000	Drawn LF	Checked SW	Approved DK
Project Code BCIDE	Originator Code JAC	QMS Code		



**Legend :**

- Templeogue/Rathfarnham to City Centre Core Bus Corridor Scheme
- Modelled Road Network

**Significance of the modelled change in the annual mean PM<sub>10</sub> concentration due to Templeogue/Rathfarnham to City Centre Core Bus Corridor Scheme (2028)**

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

PM<sub>10</sub> Annual Mean Limit Value: 40 µg/m<sup>3</sup>

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0 0.2 0.4 0.6 0.8 1 km  
BAR SCALE

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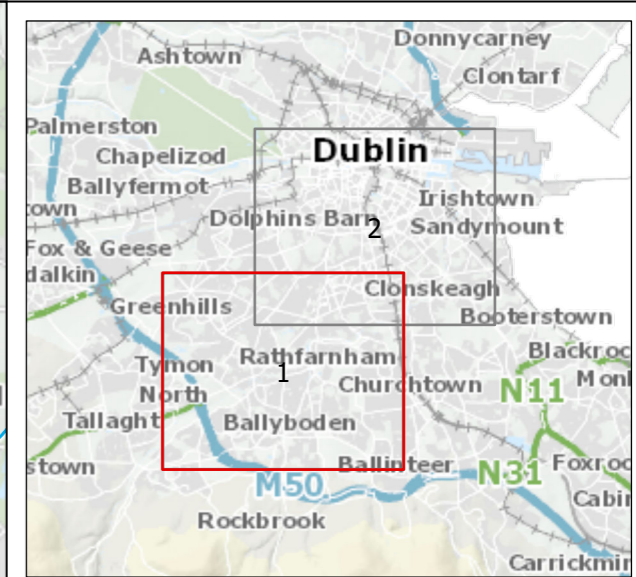
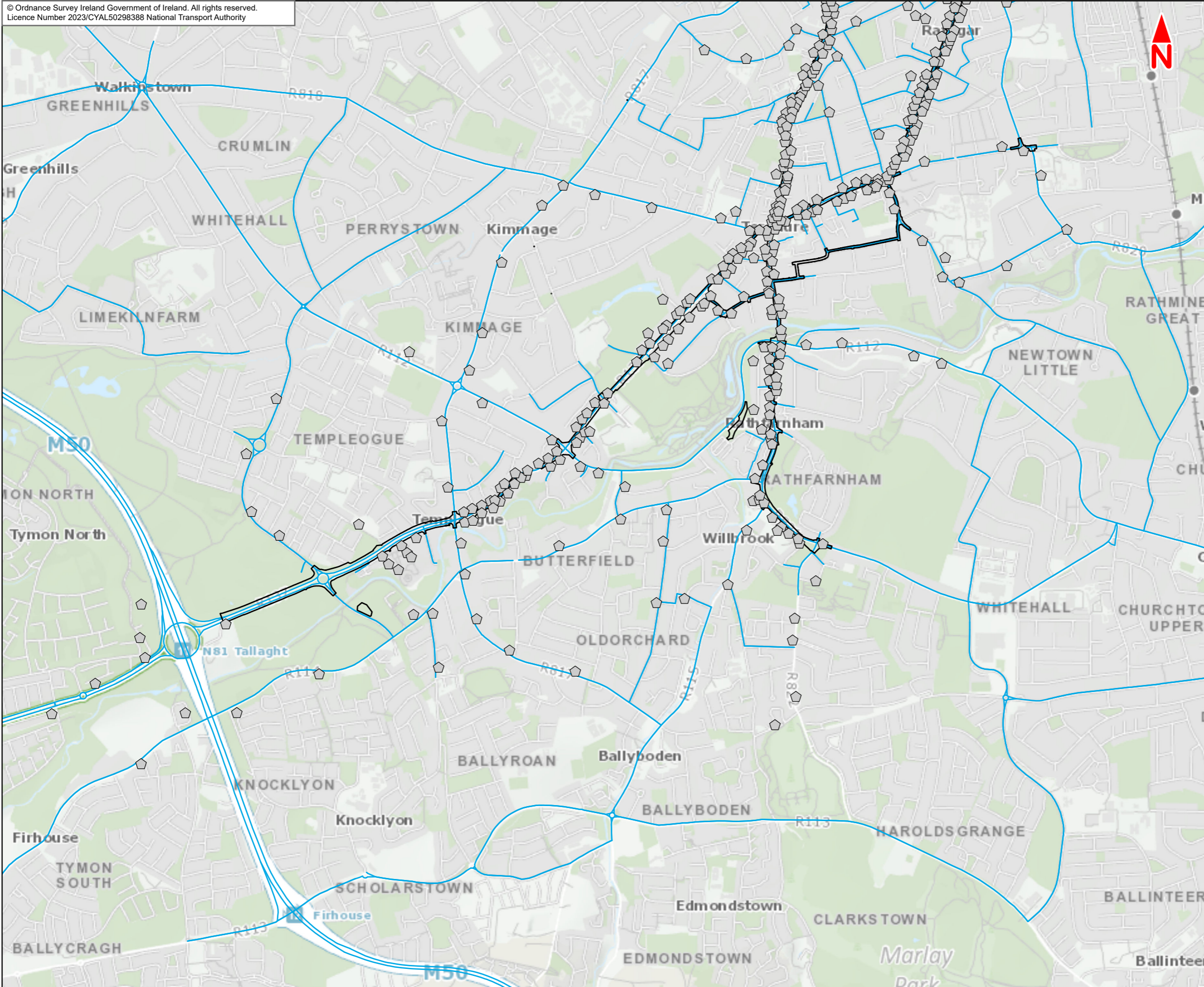
Consultant  
**JACOBS ARUP SYSTRA**

Programme Title <b>BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS</b>				
Drawing Title Templeogue / Rathfarnham to City Centre Core Bus Corridor Scheme Figure 7.4				
Modeller Annual Mean PM <sub>10</sub> Impacts (µg/m <sup>3</sup> ) due to Templeogue/Rathfarnham to City Centre Core Bus Corridor Scheme (2028)				
Drawing File Name BCIDE-JAC-ENV_AQ-1012_XX_00-DR-GG-0402	Sheet Number 2 of 2	Status A	Rev M01	

Date 09/02/2023	Scale @ A3 1:20 000	Drawn LF	Checked SW	Approved DK
Project Code BCIDE	Originator Code JAC	QMS Code		



**7.5**  
Modelled Annual Mean  
PM<sub>2.5</sub> Impacts (µg/m<sup>3</sup>) due to  
Templeogue/Rathfarnham to City  
Centre Core Bus Corridor Scheme  
(2028)



**Legend :**

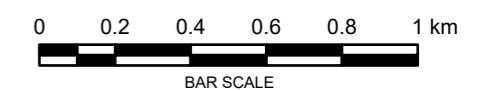
- Templeogue/Rathfarnham to City Centre Core Bus Corridor Scheme
- Modelled Road Network

**Significance of the modelled change in the annual mean PM<sub>2.5</sub> concentration due to Templeogue/Rathfarnham to City Centre Core Bus Corridor Scheme (2028)**

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

PM<sub>2.5</sub> Annual Mean Limit Value: 25 µg/m<sup>3</sup>

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**NTA**  
Udarás Náisiúnta Iompair  
National Transport Authority

Date: 09/02/2023  
Scale @ A3: 1:20 000

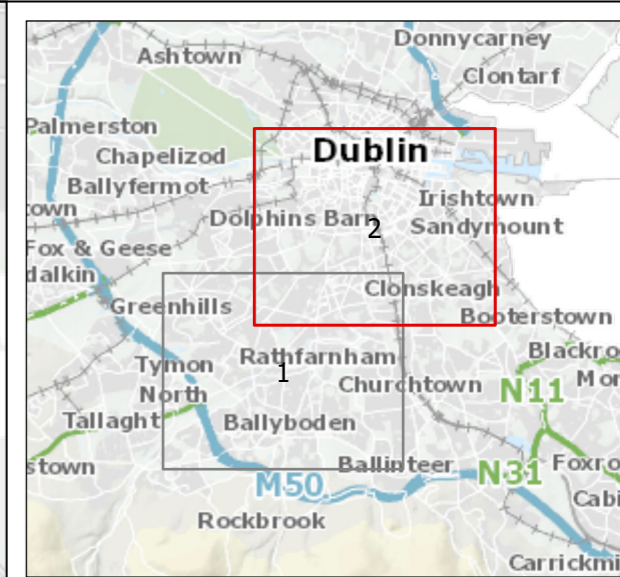
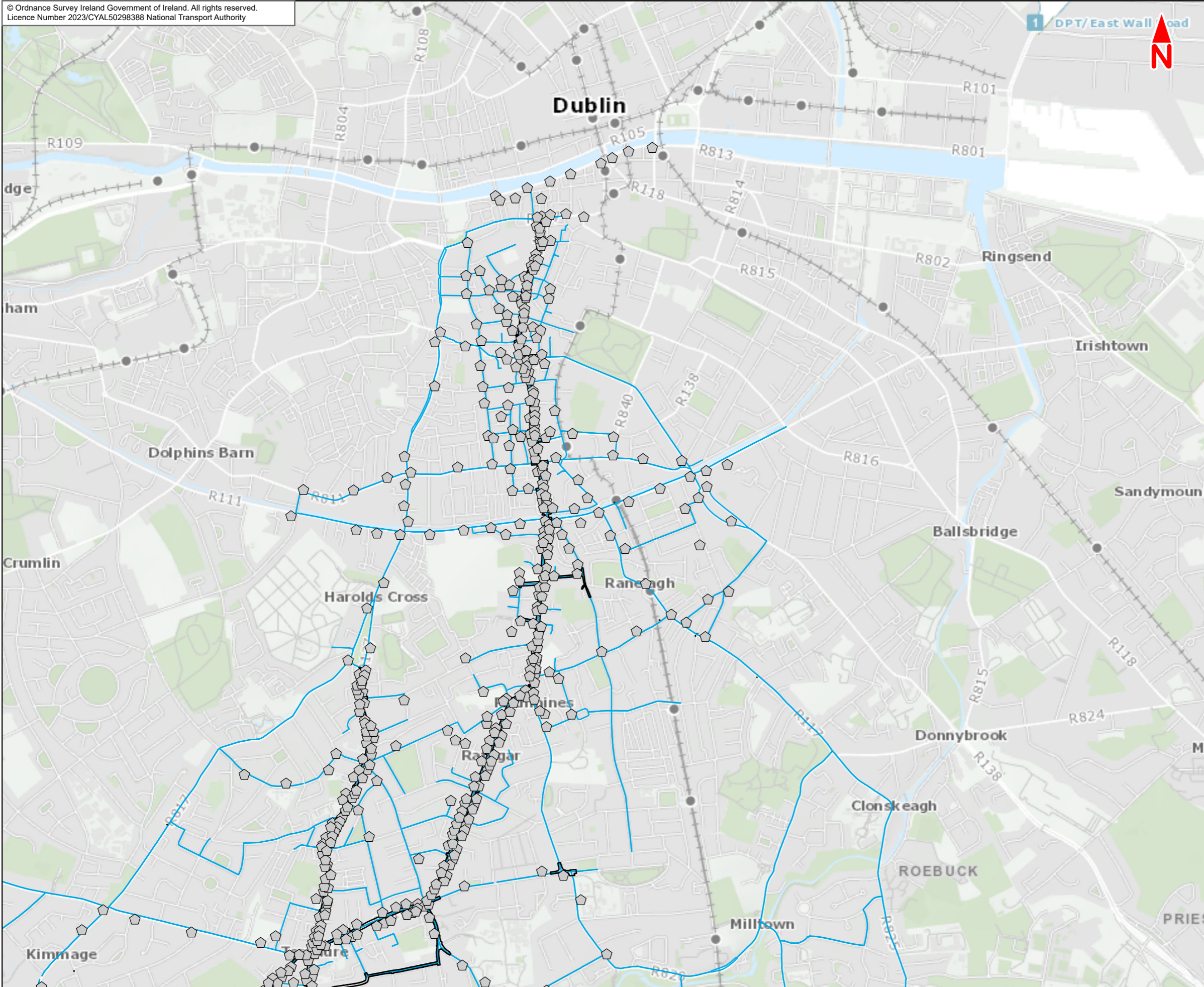
Project Code: BCIDE  
Originator Code: JAC

Consultant  
**JACOBS ARUP SYSTRA**

Drawn: LF  
Checked: SW  
Approved: DK

QMS Code

Programme Title <b>BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS</b>			
Drawing Title Templeogue / Rathfarnham to City Centre Core Bus Corridor Scheme Figure 7.5 Modelled Annual Mean PM <sub>2.5</sub> Impacts (µg/m <sup>3</sup> ) due to Templeogue/ Rathfarnham to City Centre Core Bus Corridor Scheme (2028)			
Drawing File Name BCIDE-JAC-ENV_AQ-1012_XX_00-DR-GG-0501	Sheet Number 1 of 2	Status A	Rev M01



**Legend :**

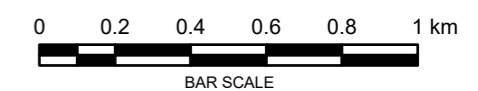
- Templeogue/Rathfarnham to City Centre Core Bus Corridor Scheme
- Modelled Road Network

**Significance of the modelled change in the annual mean PM<sub>2.5</sub> concentration due to Templeogue/Rathfarnham to City Centre Core Bus Corridor Scheme (2028)**

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

PM<sub>2.5</sub> Annual Mean Limit Value: 25 µg/m<sup>3</sup>

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

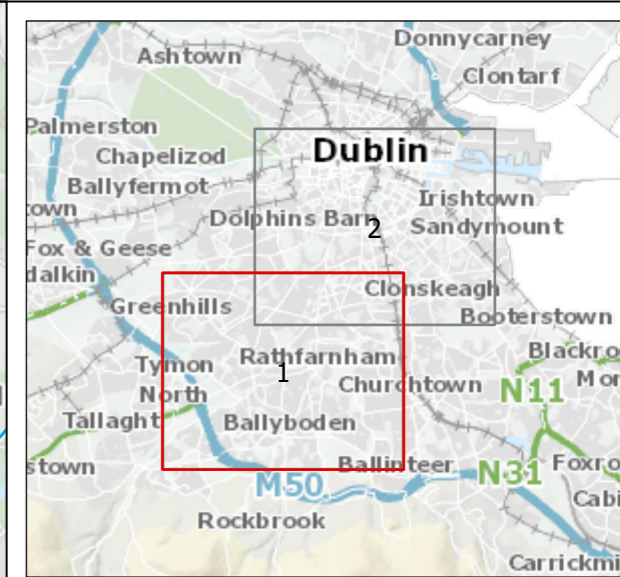
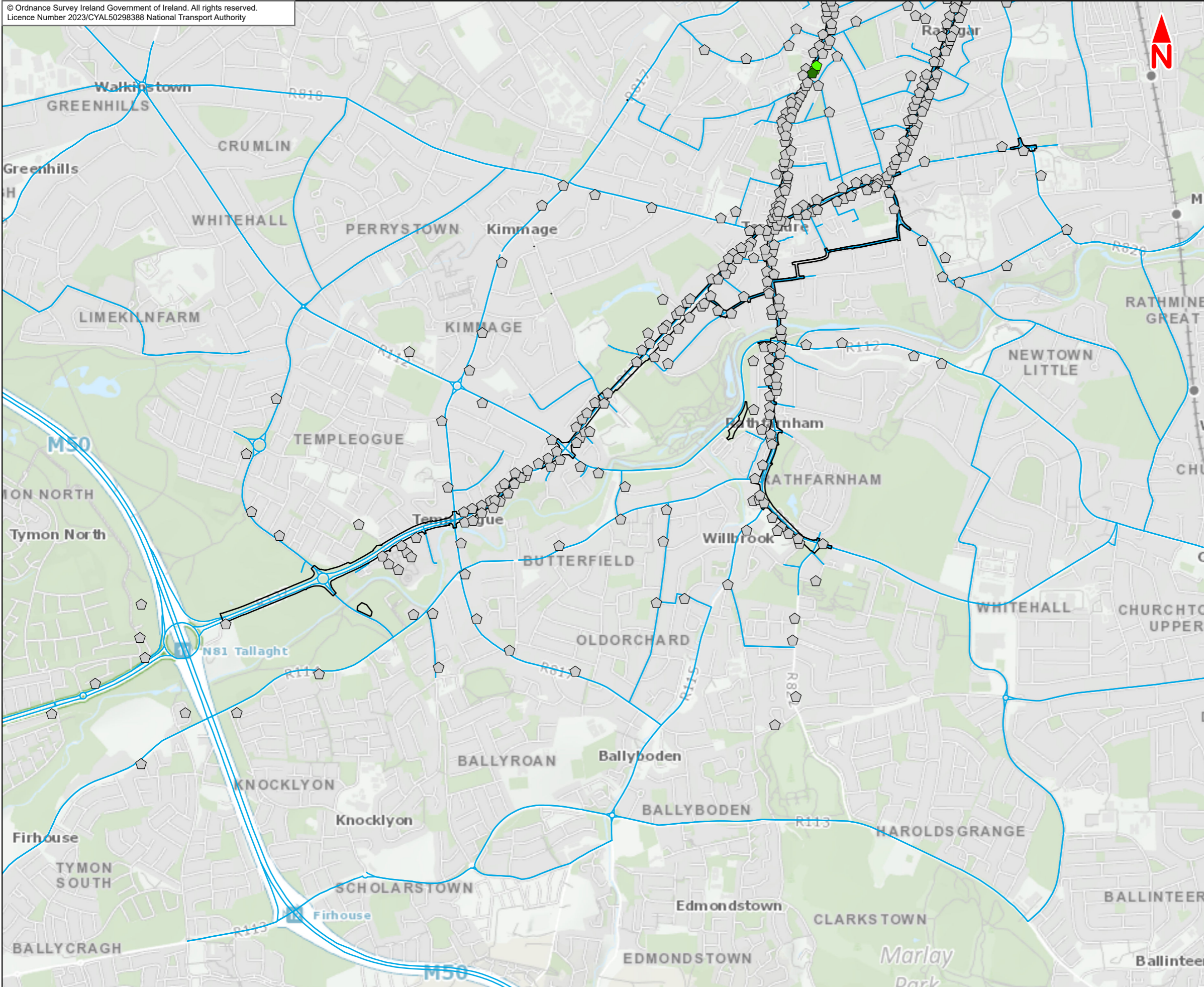
Programme Title <b>BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS</b>				
Drawing Title Templeogue / Rathfarnham to City Centre Core Bus Corridor Scheme Figure 7.5 Modelled Annual Mean PM <sub>2.5</sub> Impacts (µg/m <sup>3</sup> ) due to Templeogue/ Rathfarnham to City Centre Core Bus Corridor Scheme (2028)				
Drawing File Name BCIDE-JAC-ENV_AQ-1012_XX_00-DR-GG-0502	Sheet Number 2 of 2	Status A	Rev M01	

Date 09/02/2023	Scale @ A3 1:20 000	Drawn LF	Checked SW	Approved DK
Project Code BCIDE	Originator Code JAC	QMS Code		

## 7.6

Modelled Annual Mean NO<sub>2</sub> Impacts  
(µg/m<sup>3</sup>) due to Templeogue/  
Rathfarnham to City Centre Core Bus  
Corridor Scheme (2024)





**Legend :**

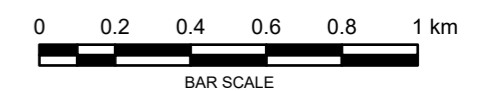
- Templeogue/Rathfarnham to City Centre Core Bus Corridor Scheme
- Modelled Road Network

**Significance of the modelled change in the annual mean NO<sub>2</sub> concentration due to Templeogue/Rathfarnham to City Centre Core Bus Corridor Scheme - Construction Phase (2024)**

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

NO<sub>2</sub> Annual Mean Limit Value: 40 µg/m<sup>3</sup>

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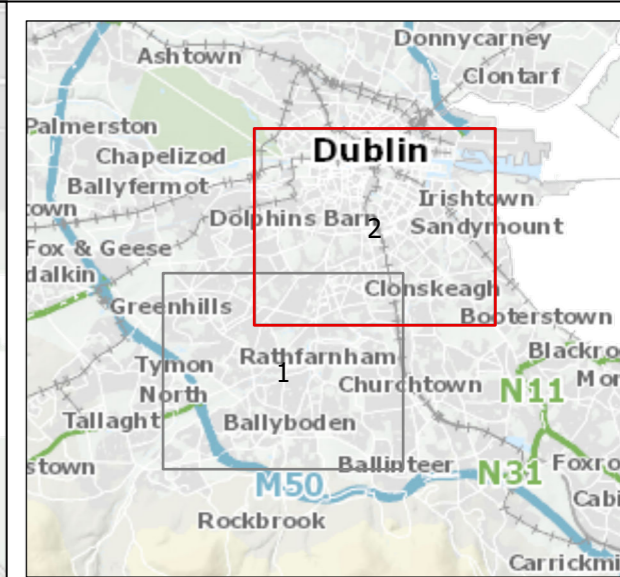
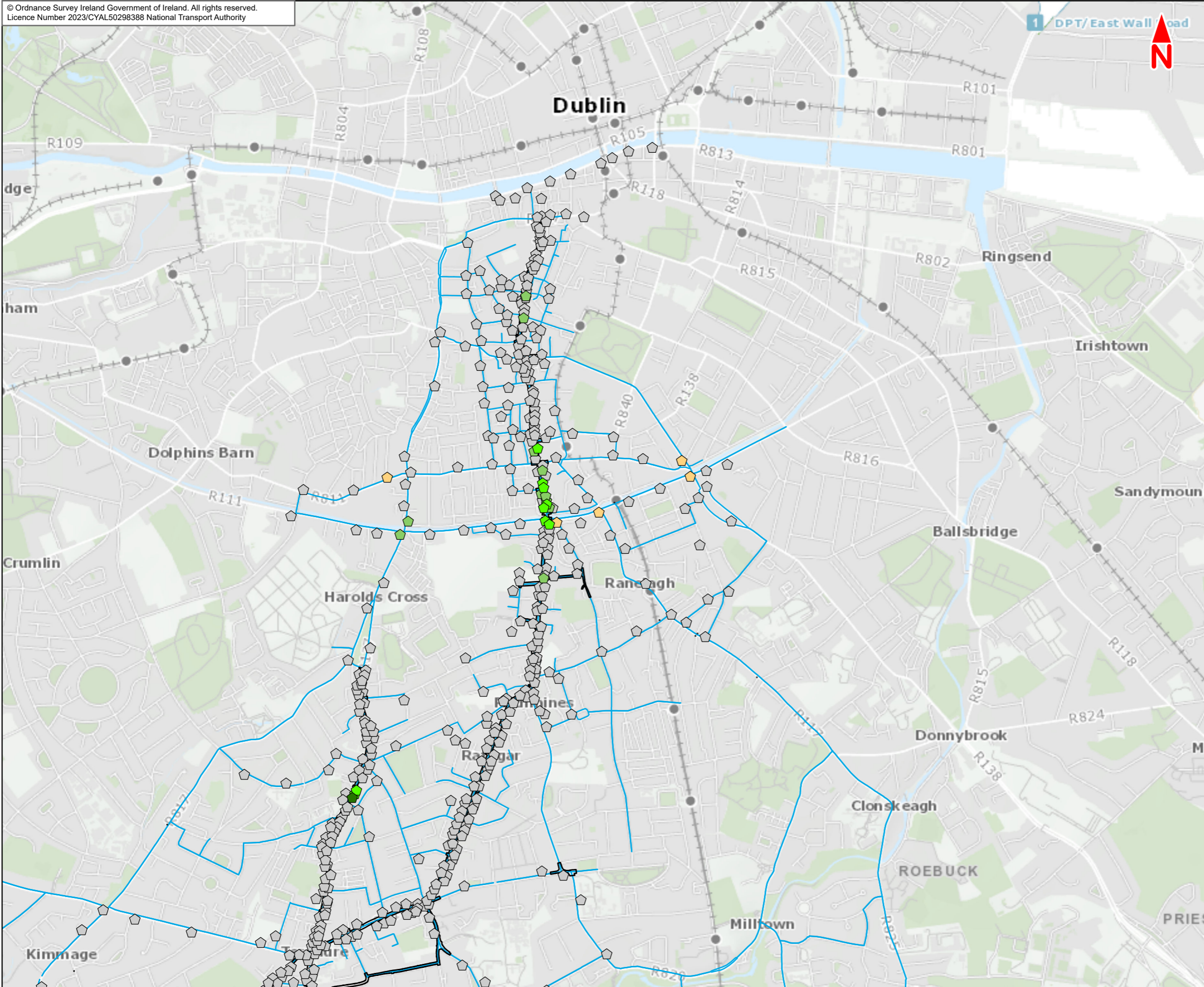
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**ARUP SYSTRA**

Programme Title <b>BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS</b>			
Drawing Title Templeogue / Rathfarnham to City Centre Core Bus Corridor Scheme Figure 7.6 Modelled Annual Mean NO <sub>2</sub> Impacts (µg/m <sup>3</sup> ) due to Templeogue/Rathfarnham to City Centre Core Bus Corridor Scheme - Construction Phase (2024)			
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Project Code BCIDE	Originator Code JAC	QMS Code		



**Legend :**

- Templeogue/Rathfarnham to City Centre Core Bus Corridor Scheme
- Modelled Road Network

**Significance of the modelled change in the annual mean NO<sub>2</sub> concentration due to Templeogue/Rathfarnham to City Centre Core Bus Corridor Scheme - Construction Phase (2024)**

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

NO<sub>2</sub> Annual Mean Limit Value: 40 µg/m<sup>3</sup>

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0 0.2 0.4 0.6 0.8 1 km  
BAR SCALE

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Consultant: **JACOBS ARUP SYSTRA**


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Project Code: BCIDE  
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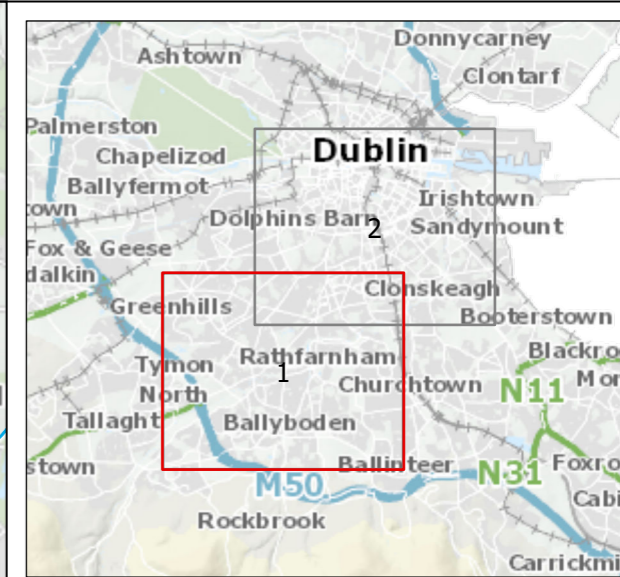
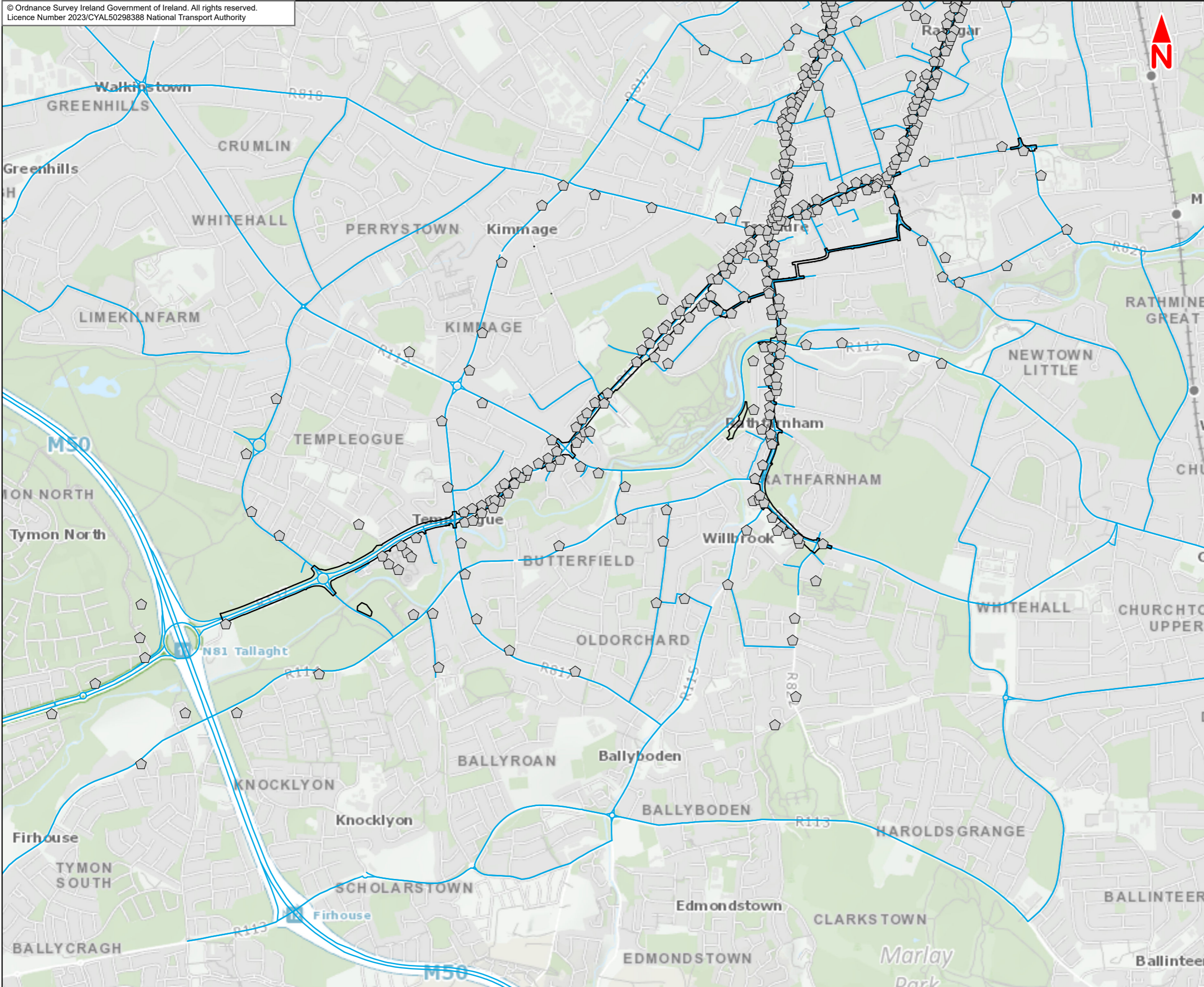
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Checked: SW  
Approved: DK

QMS Code:

Programme Title: <b>BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS</b>			
Drawing Title: Templeogue / Rathfarnham to City Centre Core Bus Corridor Scheme Figure 7.6			
Modelled Annual Mean NO <sub>2</sub> Impacts (µg/m <sup>3</sup> ) due to Templeogue/Rathfarnham to City Centre Core Bus Corridor Scheme - Construction Phase (2024)			
Drawing File Name: BCIDE-JAC-ENV_AQ-1012_XX_00-DR-GG-0602	Sheet Number: 2 of 2	Status: A	Rev: M01



**7.7**  
Modelled Annual Mean PM<sub>10</sub>  
Impacts (µg/m<sup>3</sup>) due to  
Templeogue/Rathfarnham to City  
Centre Core Bus Corridor Scheme  
(2024)



**Legend :**

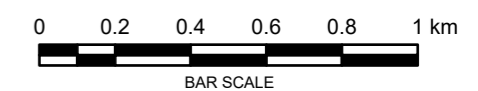
- Templeogue/Rathfarnham to City Centre Core Bus Corridor Scheme
- Modelled Road Network

**Significance of the modelled change in the annual mean PM<sub>10</sub> concentration due to Templeogue/Rathfarnham to City Centre Core Bus Corridor Scheme - Construction Phase (2024)**

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

PM<sub>10</sub> Annual Mean Limit Value: 40 µg/m<sup>3</sup>

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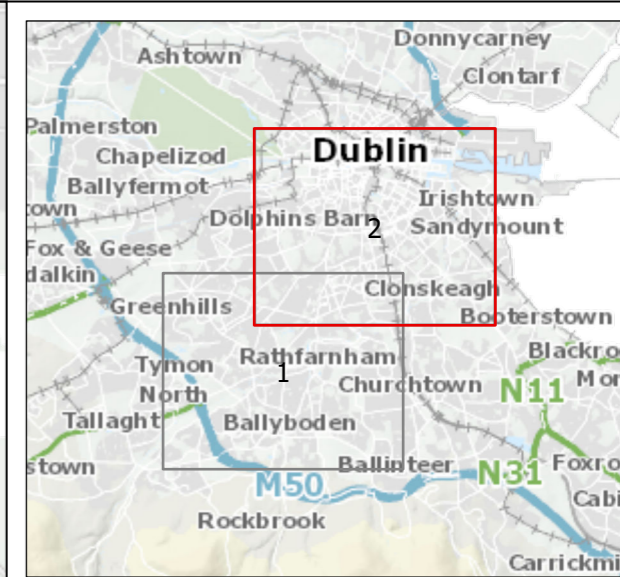
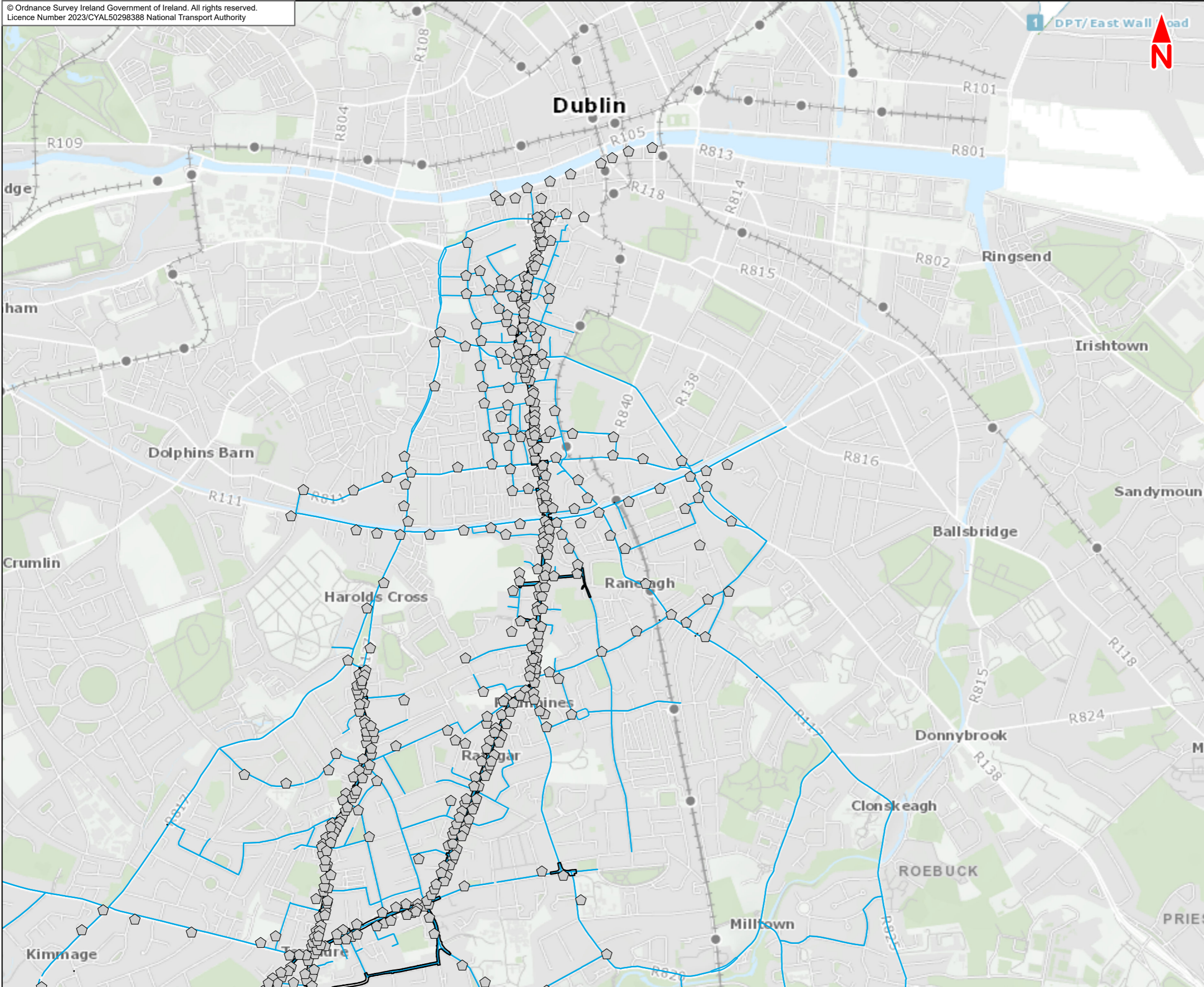
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**ARUP SYSTRA**

Programme Title <b>BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS</b>			
Drawing Title Templeogue / Rathfarnham to City Centre Core Bus Corridor Scheme Figure 7.7 Modelled Annual Mean PM <sub>10</sub> Impacts (µg/m <sup>3</sup> ) due to Templeogue/Rathfarnham to City Centre Core Bus Corridor Scheme- Construction Phase (2024)			
Drawing File Name BCIDE-JAC-ENV_AQ-1012_XX_00-DR-GG-0701	Sheet Number 1 of 2	Status S3	Rev M01

Date 09/02/2023	Scale @ A3 1:20 000	Drawn LF	Checked SW	Approved DK
Project Code BCIDE	Originator Code JAC	QMS Code		



**Legend :**

- Templeogue/Rathfarnham to City Centre Core Bus Corridor Scheme
- Modelled Road Network

**Significance of the modeled change in the annual mean PM<sub>10</sub> concentration due to Templeogue/Rathfarnham to City Centre Core Bus Corridor Scheme - Construction Phase (2024)**

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

PM<sub>10</sub> Annual Mean Limit Value: 40 µg/m<sup>3</sup>

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National Transport Authority

Consultant: **JACOBS ARUP SYSTRA**

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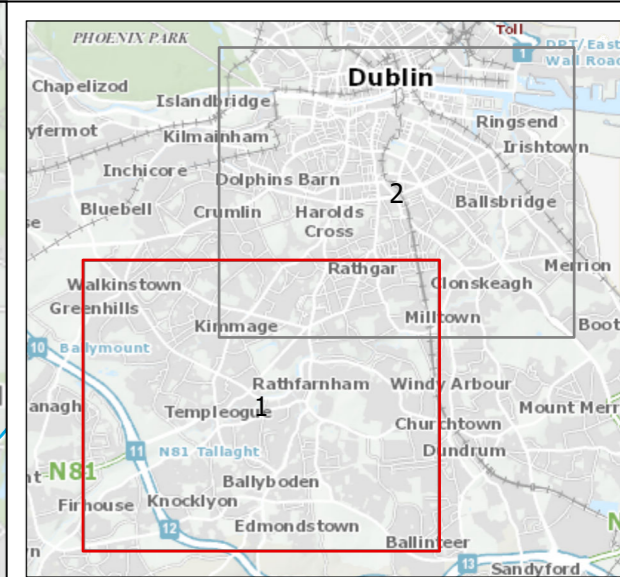
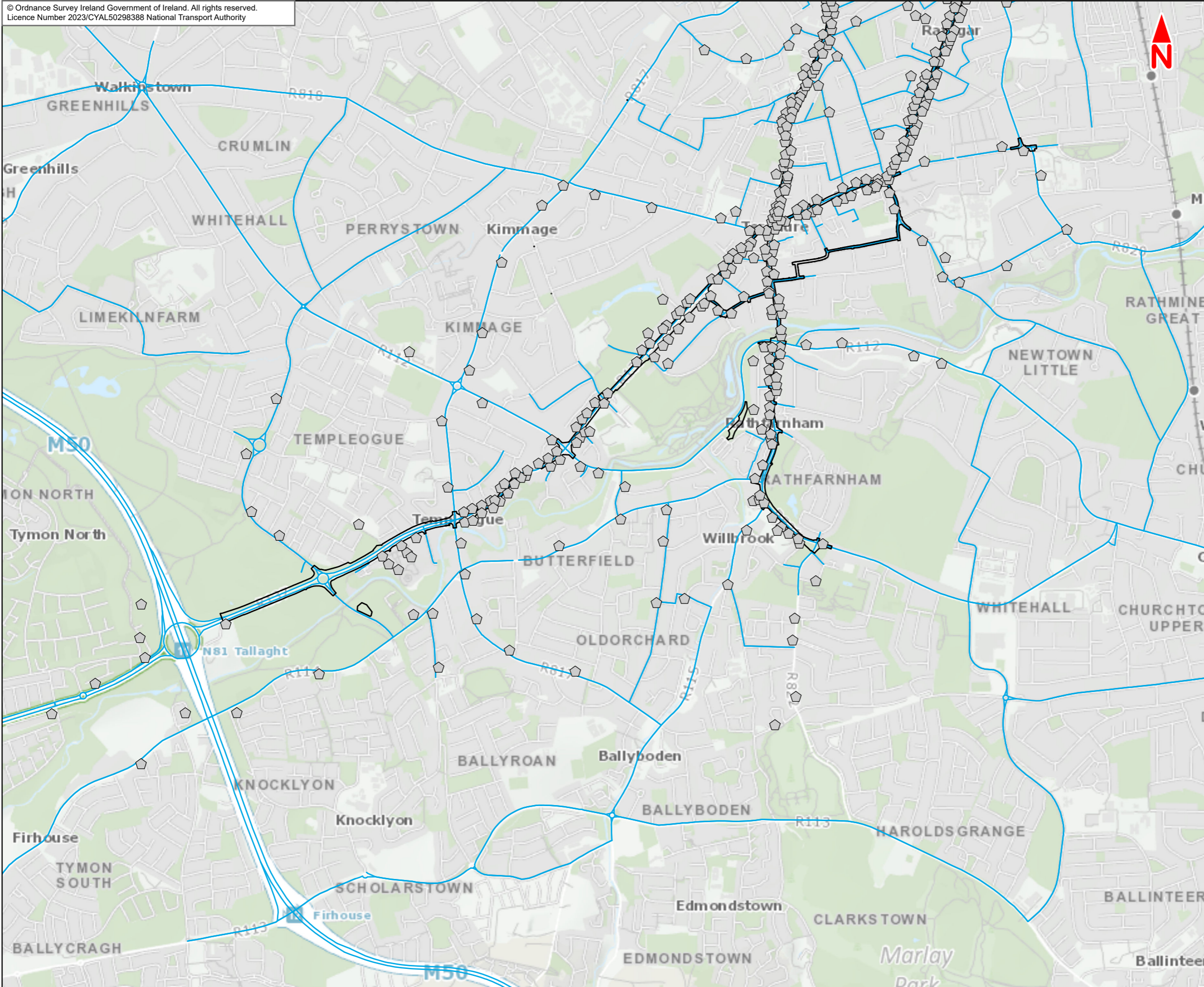
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Approved: DK

QMS Code:

Programme Title: <b>BUSCONNECTS DUBLIN</b>			
CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title: Templeogue / Rathfarnham to City Centre Core Bus Corridor Scheme			
Figure 7.7			
Modeller Annual Mean PM <sub>10</sub> Impacts (µg/m <sup>3</sup> ) due to Templeogue/Rathfarnham to City Centre Core Bus Corridor Scheme- Construction Phase (2024)			
Drawing File Name: BCIDE-JAC-ENV_AQ-1012_XX_00-DR-GG-0702	Sheet Number: 2 of 2	Status: S3	Rev: M01

## 7.8

Modelled Annual Mean PM<sub>2.5</sub>  
Impacts ( $\mu\text{g}/\text{m}^3$ ) due to Templeogue/  
Rathfarnham to City Centre Core  
Bus Corridor Scheme (2024)



**Legend :**

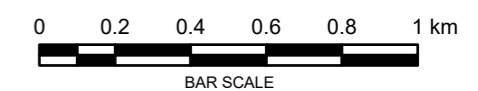
- Templeogue/Rathfarnham to City Centre Core Bus Corridor Scheme
- Modelled Road Network

**Significance of the modelled change in the annual mean PM<sub>2.5</sub> concentration due to Templeogue/Rathfarnham to City Centre Core Bus Corridor Scheme - Construction Phase (2024)**

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

PM<sub>2.5</sub> Annual Mean Limit Value: 25 µg/m<sup>3</sup>

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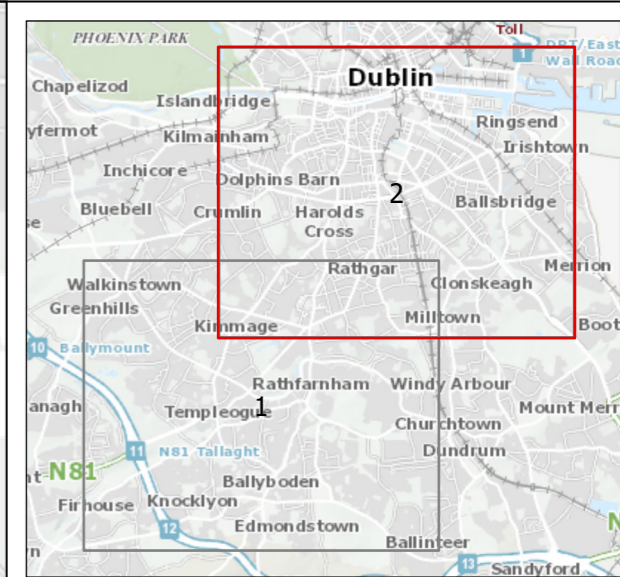
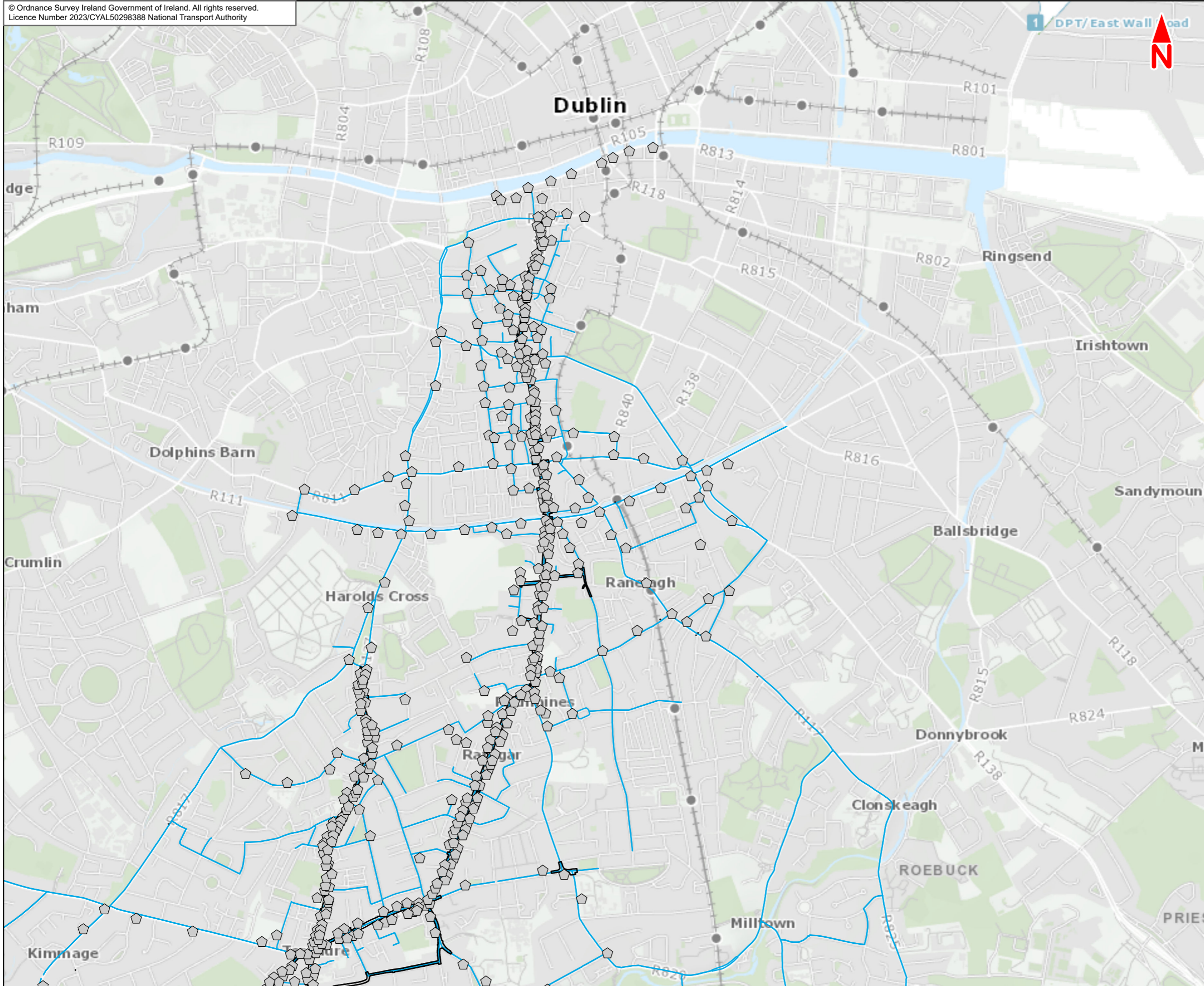
Rev	Date	Drn	Chk'd	App'd	Description
M01	Feb 2023	LF	SW	DK	ISSUE FOR PHASE 4 : PLANNING

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 Templeogue / Rathfarnham to City Centre Core Bus Corridor Scheme Figure 7.8 Modelled Annual Mean PM <sub>2.5</sub> Impacts (µg/m <sup>3</sup> ) due to Templeogue/Rathfarnham to City Centre Core Bus Corridor Scheme - Construction Phase (2024)				
Drawing File Name BCIDE-JAC-ENV_AQ-1012_XX_00-DR-GG-0801	Sheet Number 1 of 2	Status A	Rev M01	

Date 09/02/2023	Scale @ A3 1:20 000	Drawn LF	Checked SW	Approved DK
Project Code BCIDE	Originator Code JAC	QMS Code		



**Legend :**

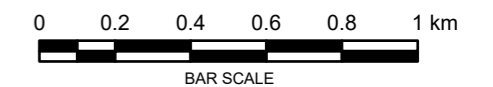
- Templeogue/Rathfarnham to City Centre Core Bus Corridor Scheme
- Modelled Road Network

**Significance of the modelled change in the annual mean PM<sub>2.5</sub> concentration due to Templeogue/Rathfarnham to City Centre Core Bus Corridor Scheme - Construction Phase (2024)**

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

PM<sub>2.5</sub> Annual Mean Limit Value: 25 µg/m<sup>3</sup>

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Drawing File Name BCIDE-JAC-ENV_AQ-1012_XX_00-DR-GG-0802	Sheet Number 2 of 2	Status A	Rev M01	

Date 09/02/2023	Scale @ A3 1:20 000	Drawn LF	Checked SW	Approved DK
Project Code BCIDE	Originator Code JAC	QMS Code		