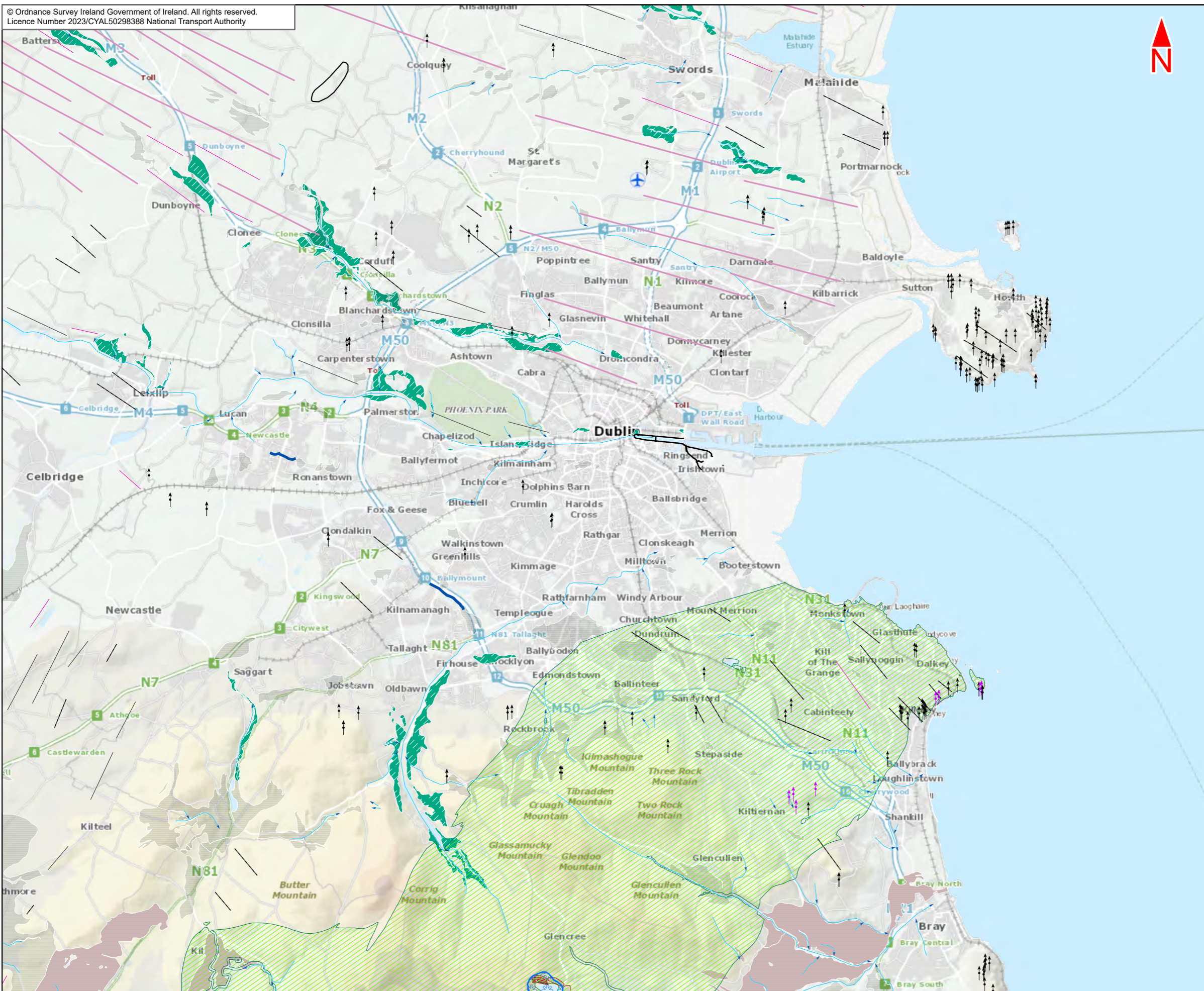




14.1
Regional Geomorphology



- Legend :**
- Ringsend to City Centre Core Bus Corridor Scheme
 - Landform**
 - ↑ Striae
 - ↑ Roche Moutonnee
 - LANDFORM**
 - Crag-and-Tail
 - Drumlin
 - Mega scale glacial lineation
 - Streamlined Bedrock
 - LANDFORM**
 - Esker ridge
 - Meltwater channel
 - Description**
 - Composite Thrust Block Moraine
 - Landform**
 - Corries
 - Landform**
 - Indicator erratic source area
 - Deglacial Landforms**
 - Delta
 - Glaciofluvial Terrace
 - Hummocky Sand and Gravel
 - Moraine Ridge

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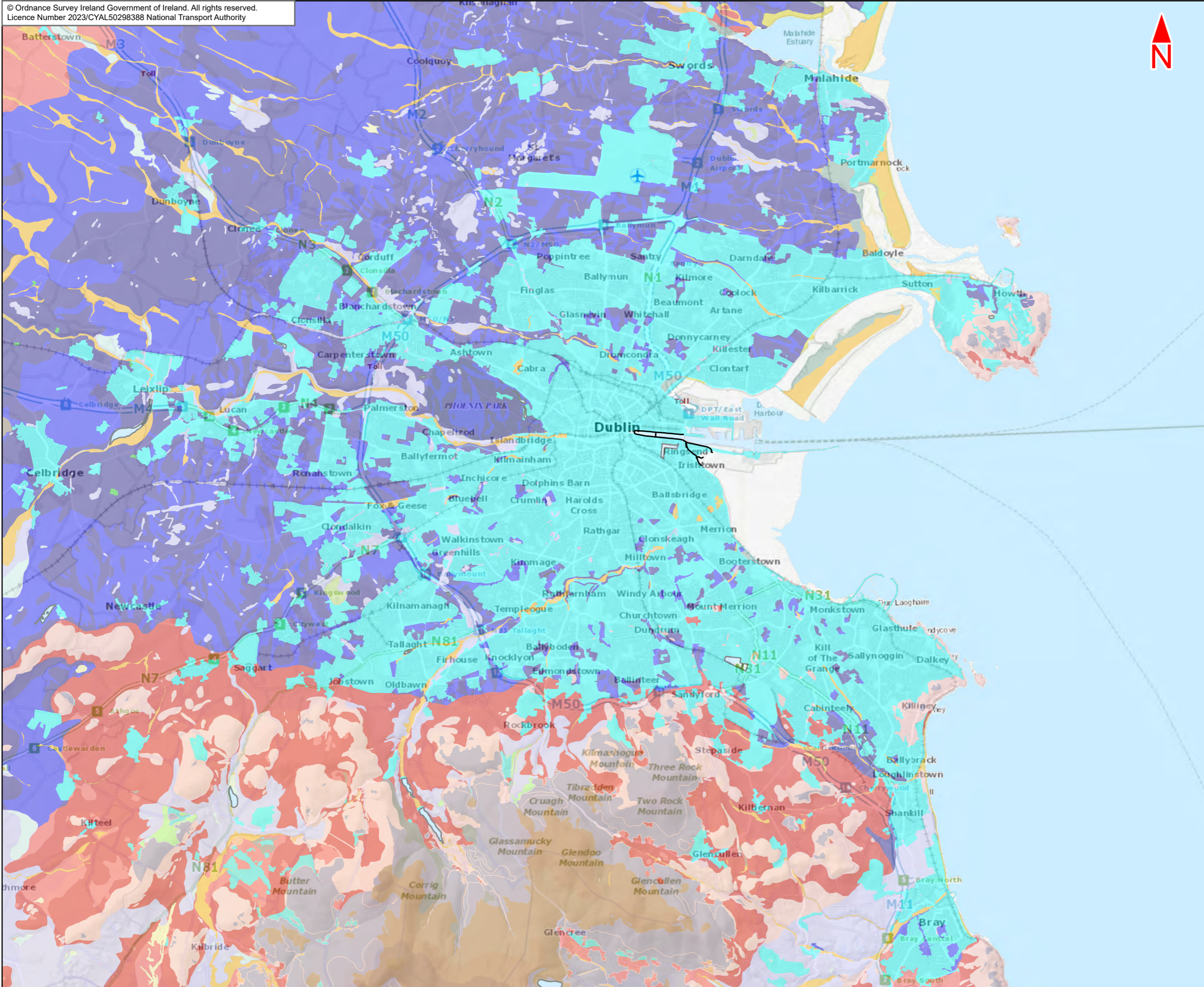
Client
NTA
Udarás Náisiúnta Iompair
National Transport Authority

Consultant
JACOBS
ARUP SYSTRA

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS				
Drawing Title Ringsend to City Centre Core Bus Corridor Scheme Figure 14.1 Regional Geomorphology				
Date 06/04/2023	Scale @ A3 1:125 000	Drawn FG	Checked PW	Approved DK
Project Code BCIDE	Originator Code JAC	QMS Code		
Drawing File Name BCIDE-JAC-ENV_GT-0016_XX_00-DR-GG-0001	Sheet Number 1 of 1	Status A	Rev M01	

14.2 Regional Soils





Legend :

Ringsend to City Centre Core Bus Corridor Scheme	BminPD - Surface water Gleys / Ground water Gleys Basic
Teagasc Soils	BminPDPT - Peaty Gleys Basic Parent Materials Basic
AeOUND - Aeolian Undifferentiated	BminSP - Surface water Gleys / Ground water Gleys Shallow
AlluvMIN - Mineral alluvium	BminSPPT - Peaty Gleys Shallow
AminDW - Acid Brown Earths / Brown Podzolics	BminSRPT - Lithosols Peats
AminPD - Surface water Gleys / Ground water Gleys Acidic	BminSW - Renzinas / Lithosols
AminPDPT - Peaty Gleys Acidic	Cut - Raised Bog cutaway/cutover
AminSP - Surface water Gleys / Ground water Gleys Shallow	FenPT - Fen peat
AminSRPT - Podzols Peaty	Lac
AminSW - Lithosols / Regosols	Made
BktPT - Blanket peat	MarSands
BminDW - Grey Brown Podzolics / Brown Earths Basic	MarSed
	Scree
	Water

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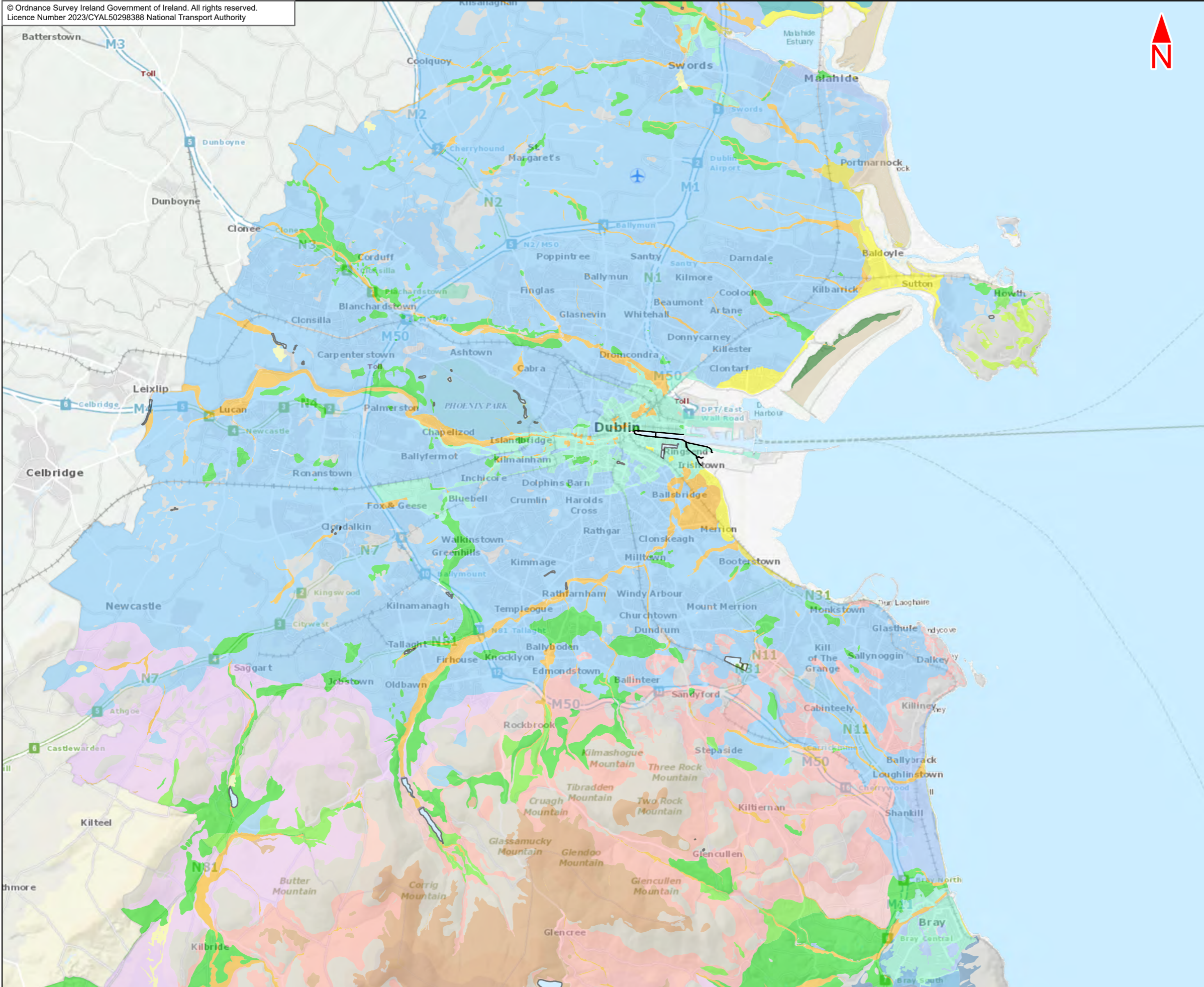
Client
NTA
Udarás Náisiúnta Iompair
National Transport Authority

Consultant
JACOBS ARUP SYSTRA

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS				
Drawing Title Ringsend to City Centre Core Bus Corridor Scheme Figure 14.2 Regional Soils				
Date 06/04/2023	Scale @ A3 1:125 000	Drawn FG	Checked PW	Approved DK
Project Code BCIDE	Originator Code JAC	QMS Code		Drawing File Name BCIDE-JAC-ENV_GT-0016_XX_00-DR-GG-0002
Sheet Number 1 of 1	Status A	Rev M01		

14.3 Regional Subsoils





Legend :

— Ringsend to City Centre Core Bus Corridor Scheme	IrSTCSs, Irish Sea Till derived from Cambrian sandstones and shales
Quaternary Sediments - 1:50,000	IrSTLPSs, Irish Sea Till derived from Lower Palaeozoic sandstones and shales
A, Alluvium	IrSTLs, Irish Sea Till derived from Limestones
Ag, Alluvium (gravelly)	TCSs, Till derived from Cambrian sandstones and shales
As, Alluvium (sandy)	TGR, Till derived from granites
Asi, Alluvium (silty)	TLPSs, Till derived from Lower Palaeozoic sandstones and shales
BktPt, Blanket Peat	TLs, Till derived from limestones
Cut, Cut over raised peat	TMp, Till derived from Metamorphic rocks
GCh, Gravels derived from chert	TQz, Till derived from quartzites
GLPSs, Gravels derived from Lower Palaeozoic sandstones and shales	Ws, Windblown sands
GLs, Gravels derived from Limestones	Wsd, Windblown sands and dunes
GMP, Gravels derived from Metamorphic rocks	Dam
GGr, Gravels derived from granite	Embankment
Rck, Bedrock outcrop or subcrop	Landfill
Scree, Scree	Urban
L, Lacustrine sediments	Water
Lsi, Lacustrine silts	
Mbs, Marine beach sands	
Mesc, Estuarine silts and clays	
TdIMr, Tidal Marsh	

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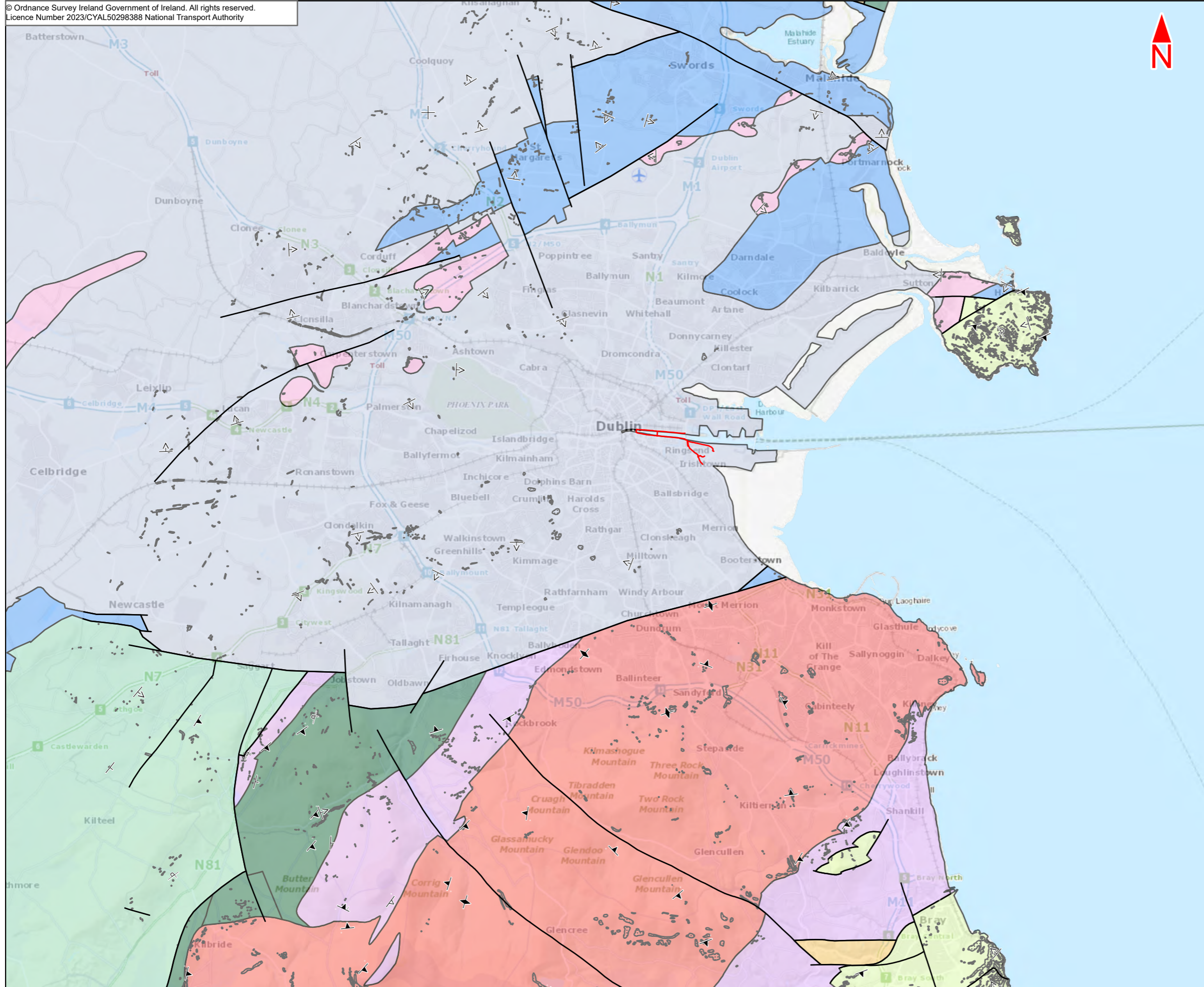
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Client NTA Udarás Náisiúnta Iompair National Transport Authority		Consultant JACOBS ARUP SYSTRA		
Date 06/04/2023	Scale @ A3 1:125 000	Drawn FG	Checked PW	Approved DK
Project Code BCIDE	Originator Code JAC	QMS Code		

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS				
Drawing Title Ringsend to City Centre Core Bus Corridor Scheme Figure 14.3 Regional Subsoils				
Drawing File Name BCIDE-JAC-ENV_GT-0016_XX_00-DR-GG-0003	Sheet Number 1 of 1	Status A	Rev M01	

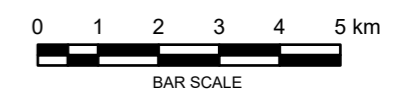
14.4
Regional Bedrock





- Legend :**
- Ringsend to City Centre Core Bus Corridor Scheme
 - GSI Bedrock Geological Faults - 1:500,000
 - GSI Bedrock Structural Symbols - 1:100,000**
 - First foliation parallel to bedding
 - Horizontal Bedding
 - Strike and dip of bedding, right way up
 - Strike and dip of bedding, way up unknown
 - Strike and dip of first foliation
 - Strike and dip of overturned bedding
 - Strike and dip of second foliation
 - Strike of vertical first foliation
 - GSI Bedrock Outcrop - 1:100,000**
 - GSI Bedrock Outcrop - 1:100,000
 - GSI Bedrock Geology - 1:500,000**
 - Visean basinal limestone "Calp"
 - Waulsortian mudbank
 - Courcean limestone
 - Up Dev-Lr Carb ORS
 - Caledonian granite
 - Silurian sandstone, g'wacke, shale
 - Mid-Up Ordovician basic volcanics
 - Lr-Mid Ordovician slate
 - Lr-Mid Ordovician acid volcanics
 - Lr-Mid Ordovician basic volcanics
 - Cambrian greywacke, sandst, qtzite

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National Transport Authority

Date: 06/04/2023
Scale @ A3: 1:125 000

Project Code: BCIDE
Originator Code: JAC

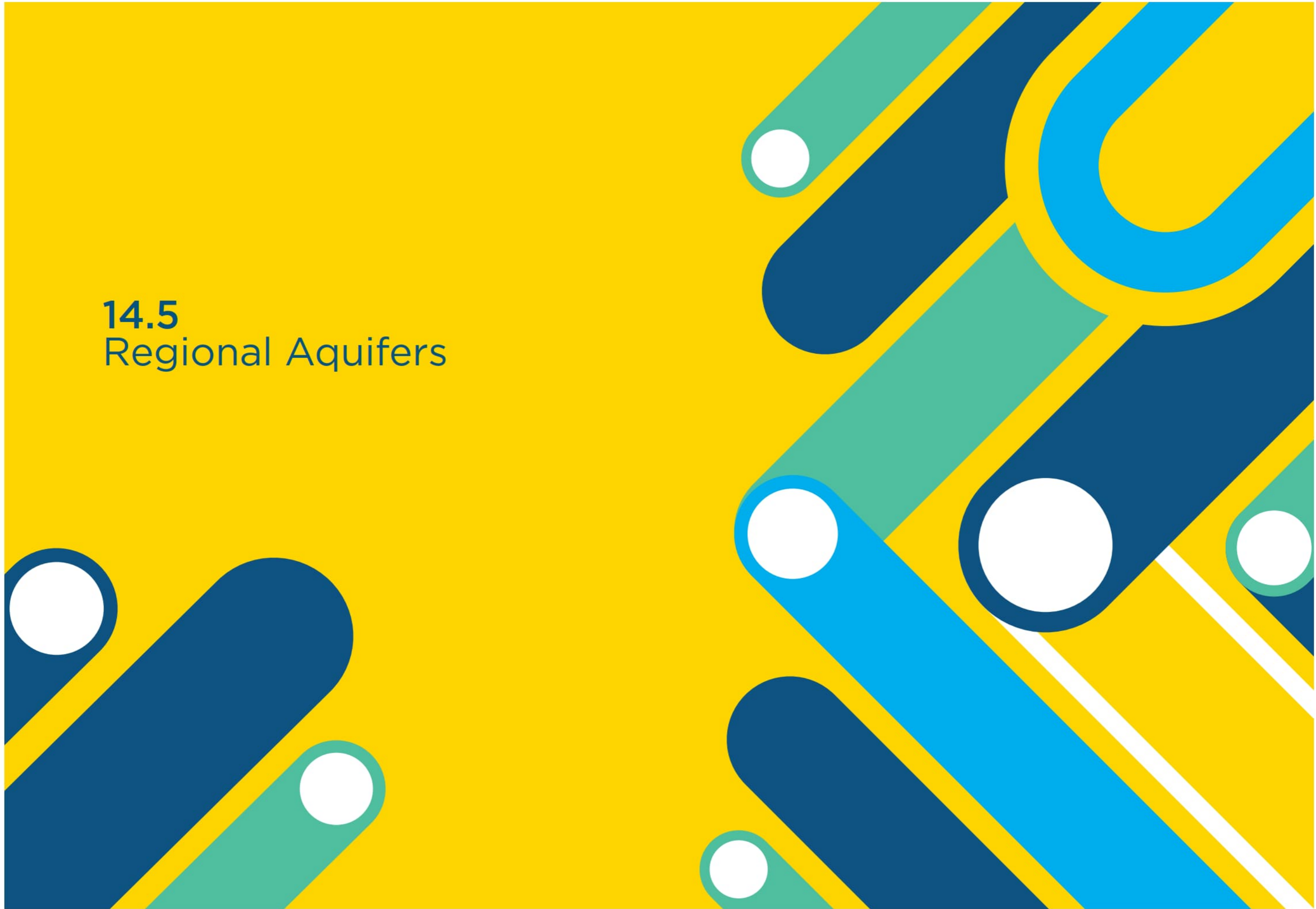
Consultant
JACOBS ARUP SYSTRA

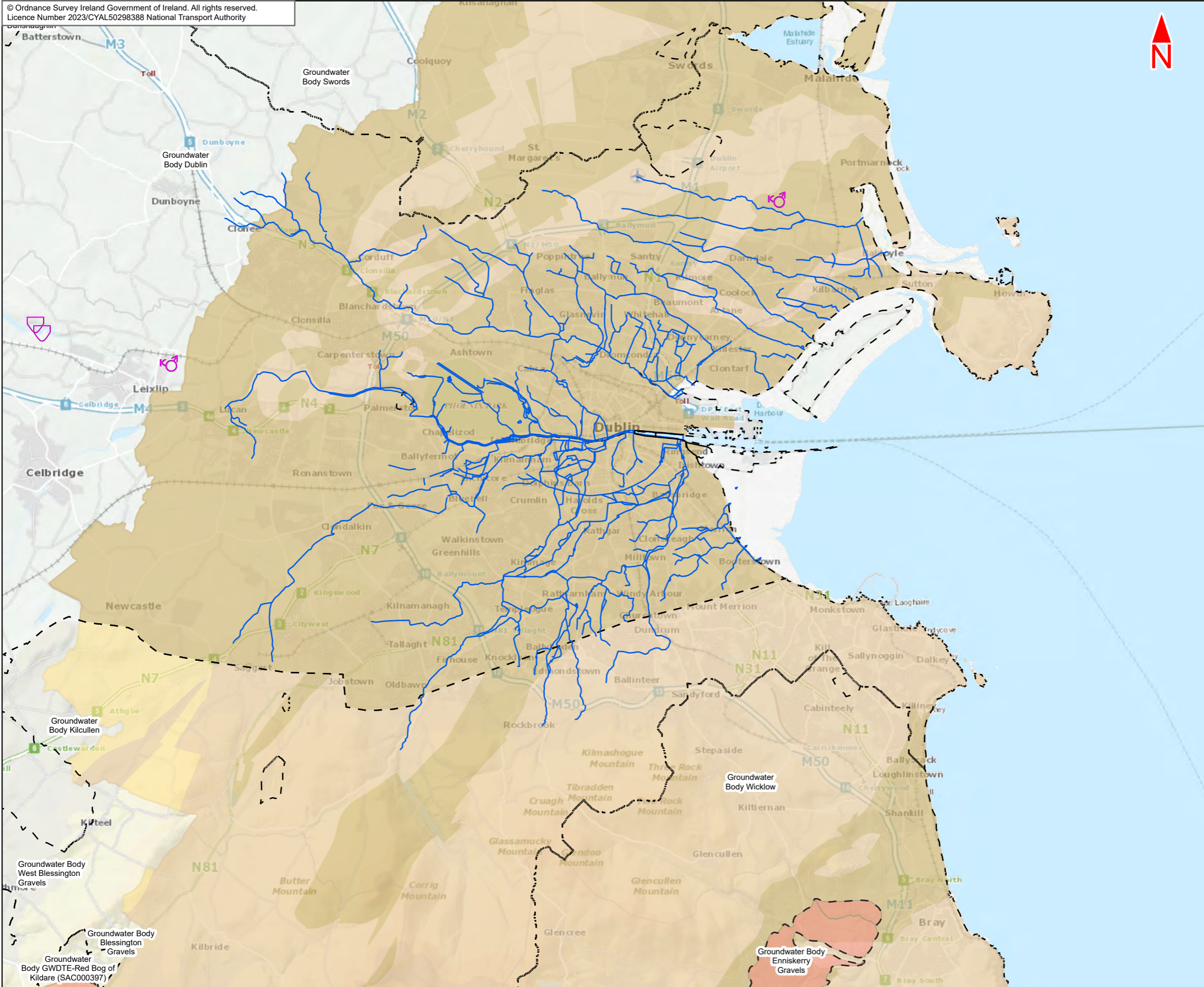
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Approved: DK

QMS Code

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS				
Drawing Title Ringsend to City Centre Core Bus Corridor Scheme Figure 14.4 Regional Bedrock				
Drawing File Name BCIDE-JAC-ENV_GT-0016_XX_00-DR-GG-0004	Sheet Number 1 of 1	Status A	Rev M01	

14.5 Regional Aquifers





- Legend :**
- Ringsend to City Centre Core Bus Corridor Scheme
 - Rivers Of Dublin
 - GSI Sand And Gravel Aquifers
 - - - Groundwater Bodies - Water Framework Directive
 - GSI Karst**
 - ☞ CAVE
 - ☞ SPRING
 - GSI Bedrock Aquifer**
 - Locally Important Aquifer - Bedrock which is Moderately Productive only in Local Zones (LI)
 - Locally Important Aquifer - Bedrock which is Generally Moderately Productive (Lm)
 - Poor Aquifer - Bedrock which is Generally Unproductive except for Local Zones (PI)
 - Poor Aquifer - Bedrock which is Generally Unproductive (Pu)

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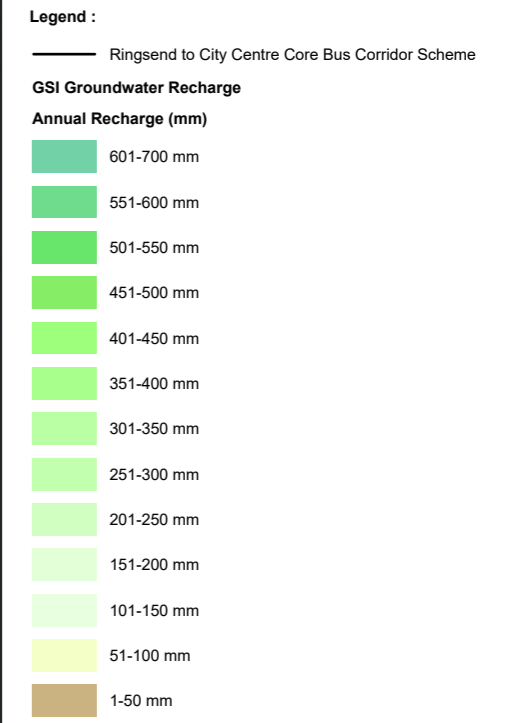
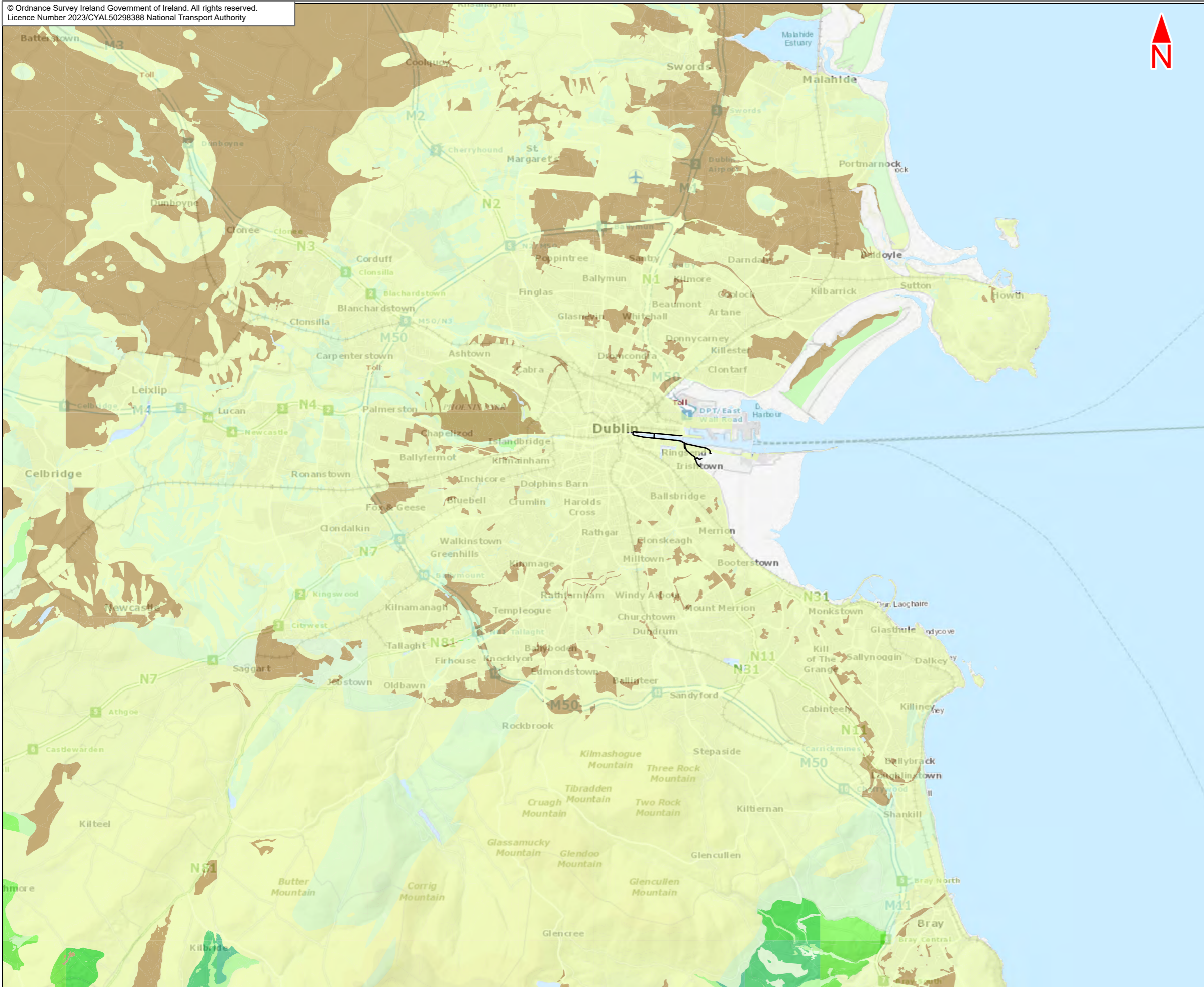
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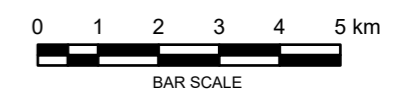
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Drawing Title Ringsend to City Centre Core Bus Corridor Scheme Figure 14.5 Regional Aquifers				
Date 06/04/2023	Scale @ A3 1:125 000	Drawn FG	Checked PW	Approved DK
Project Code BCIDE	Originator Code JAC	QMS Code		
Drawing File Name BCIDE-JAC-ENV_GT-0016_XX_00-DR-GG-0005	Sheet Number 1 of 1	Status A	Rev M01	

14.6
Regional Groundwater
Recharge





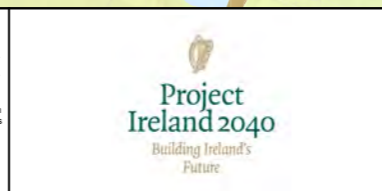
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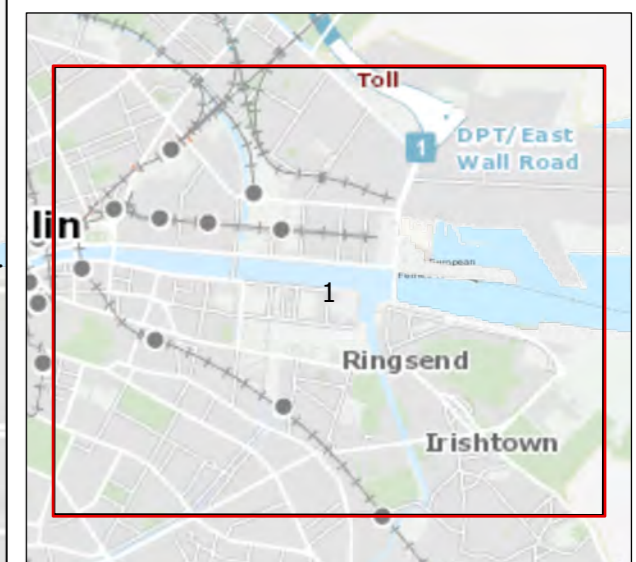
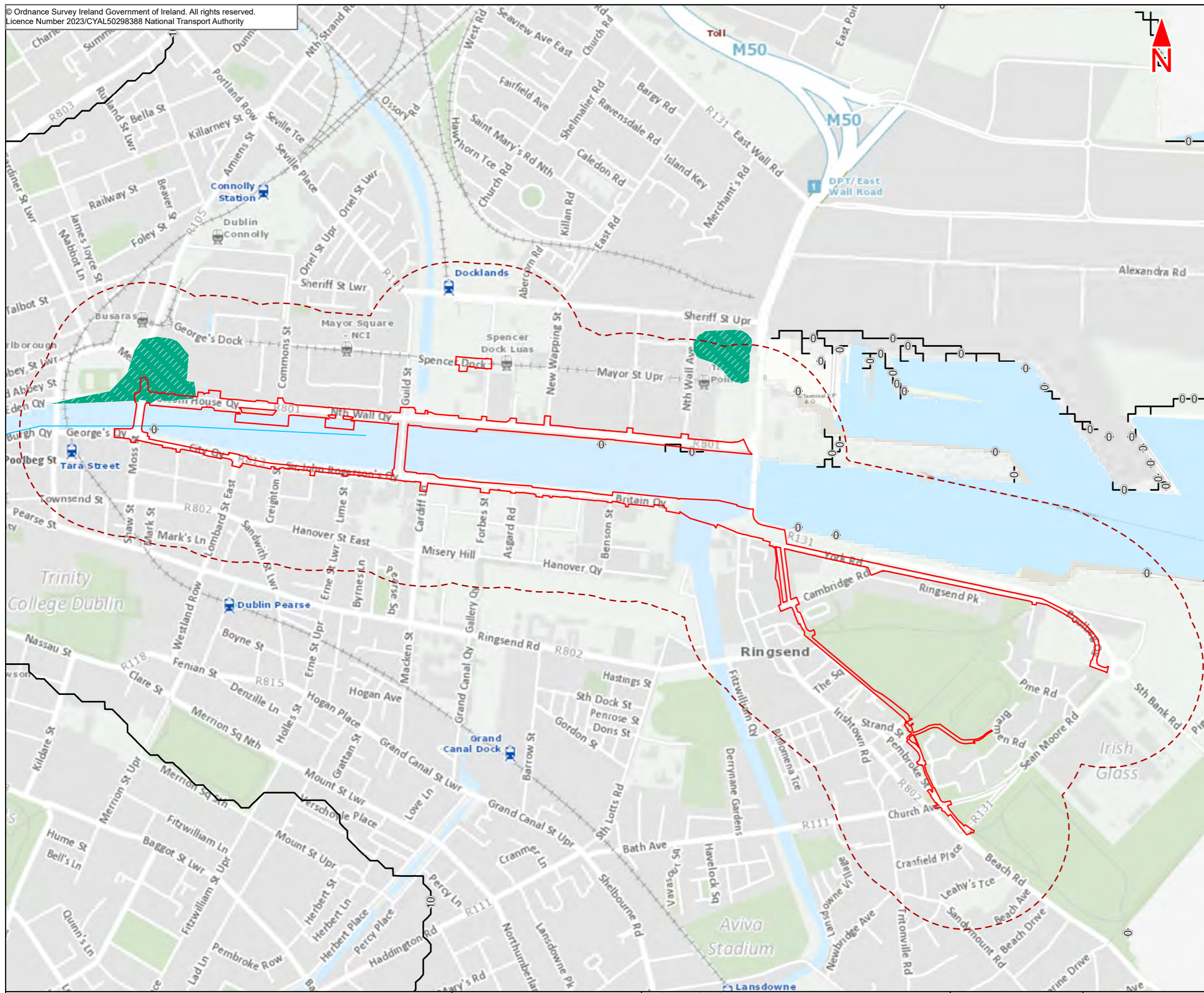
Client

Consultant

Programme Title					BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS				
Drawing Title					Ringsend to City Centre Core Bus Corridor Scheme Figure 14.6 Regional Groundwater Recharge				
Date	06/04/2023	Scale @ A3	1:125 000	Drawn	FG	Checked	PW	Approved	DK
Project Code	BCIDE	Originator Code	JAC	QMS Code					
Drawing File Name	BCIDE-JAC-ENV_GT-0016_XX_00-DR-GG-0006	Sheet Number	1 of 1	Status	A	Rev	M01		

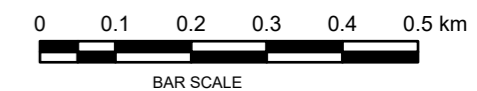
14.7
Topography and
Geomorphology





- Legend :**
- Ringsend to City Centre Core Bus Corridor Scheme
 - - - 250m Study Area
 - EPA Contours
 - Meltwater Landforms**
 - LANDFORM
 - Meltwater channel
 - Deglacial Landforms**
 - Landform
 - ▨ Glaciofluvial Terrace

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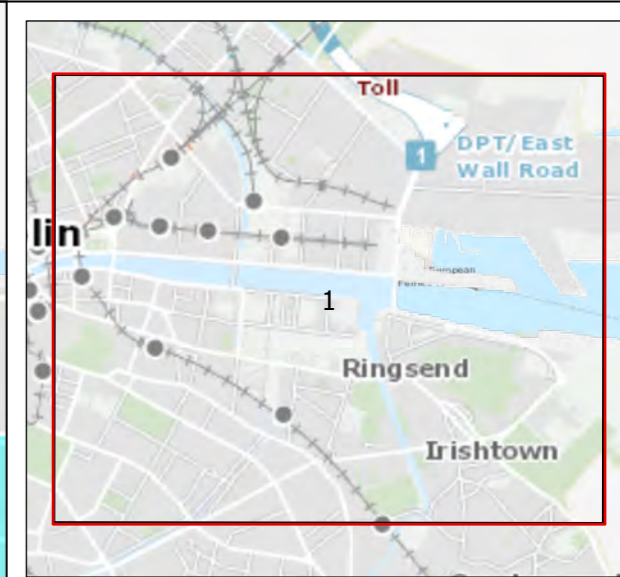
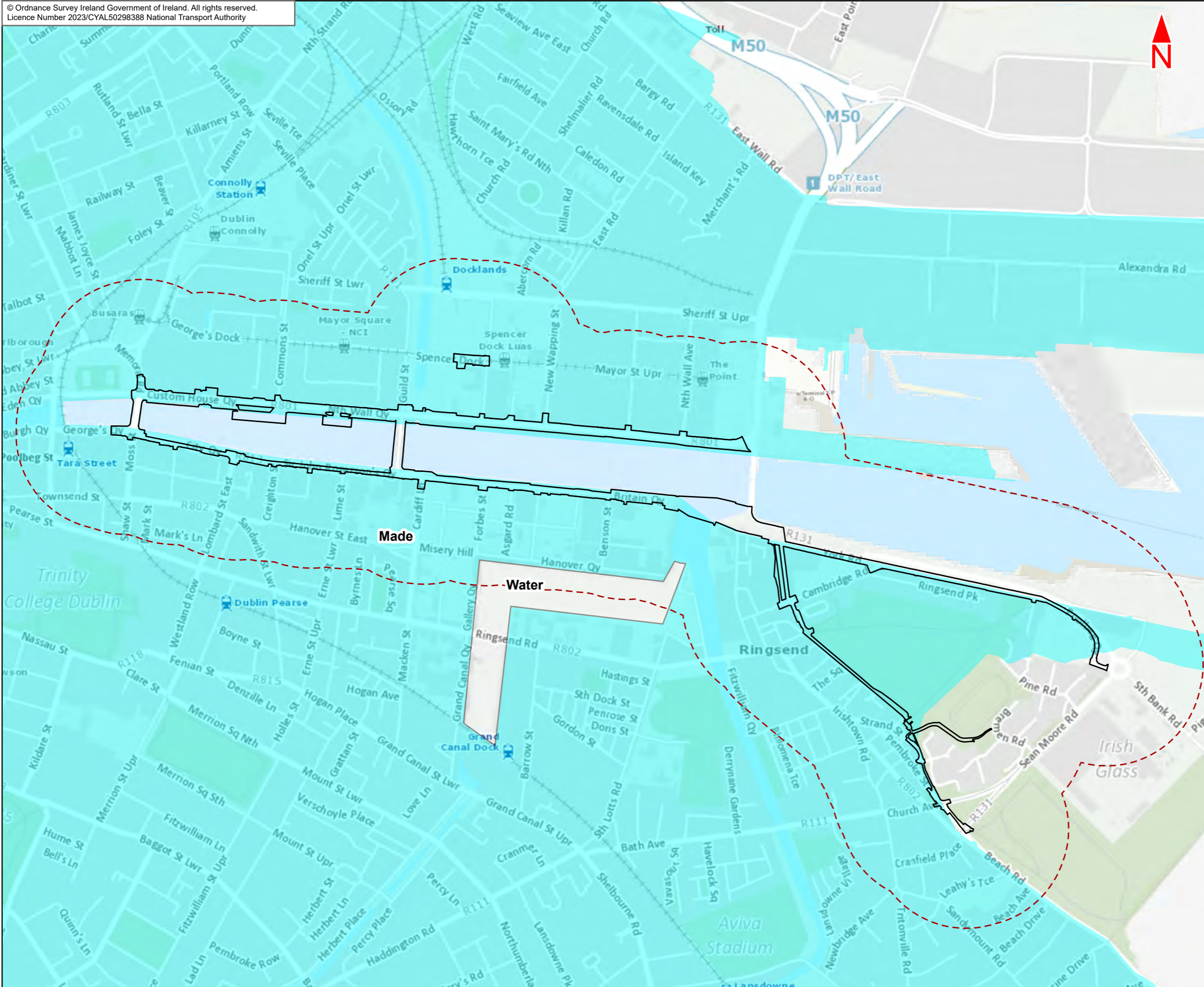
Client		Consultant	
 Udarás Náisiúnta Iompair National Transport Authority			
Date	06/04/2023	Scale @ A3	1:10000
Project Code	BCIDE	Originator Code	JAC
		QMS Code	

Drawn	FG	Checked	PW	Approved	DK
Drawing File Name	BCIDE-JAC-ENV_GT-0016_XX_00-DR-GG-0101	Sheet Number	1 of 1	Status	A
Rev	M01				

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS					
Drawing Title Ringsend to City Centre Core Bus Corridor Scheme Figure 14.7 Topography and Geomorphology					
Drawing File Name	BCIDE-JAC-ENV_GT-0016_XX_00-DR-GG-0101	Sheet Number	1 of 1	Status	A
Rev	M01				

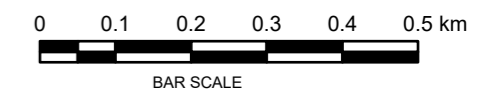
14.8
Soil Deposits





- Legend :**
- Ringsend to City Centre Core Bus Corridor Scheme
 - - - 250m Study Area
- Teagasc Soils**
- Made
 - Water

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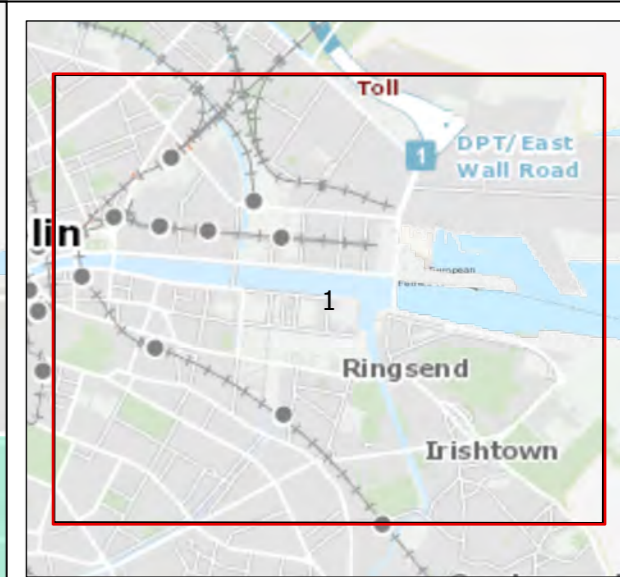
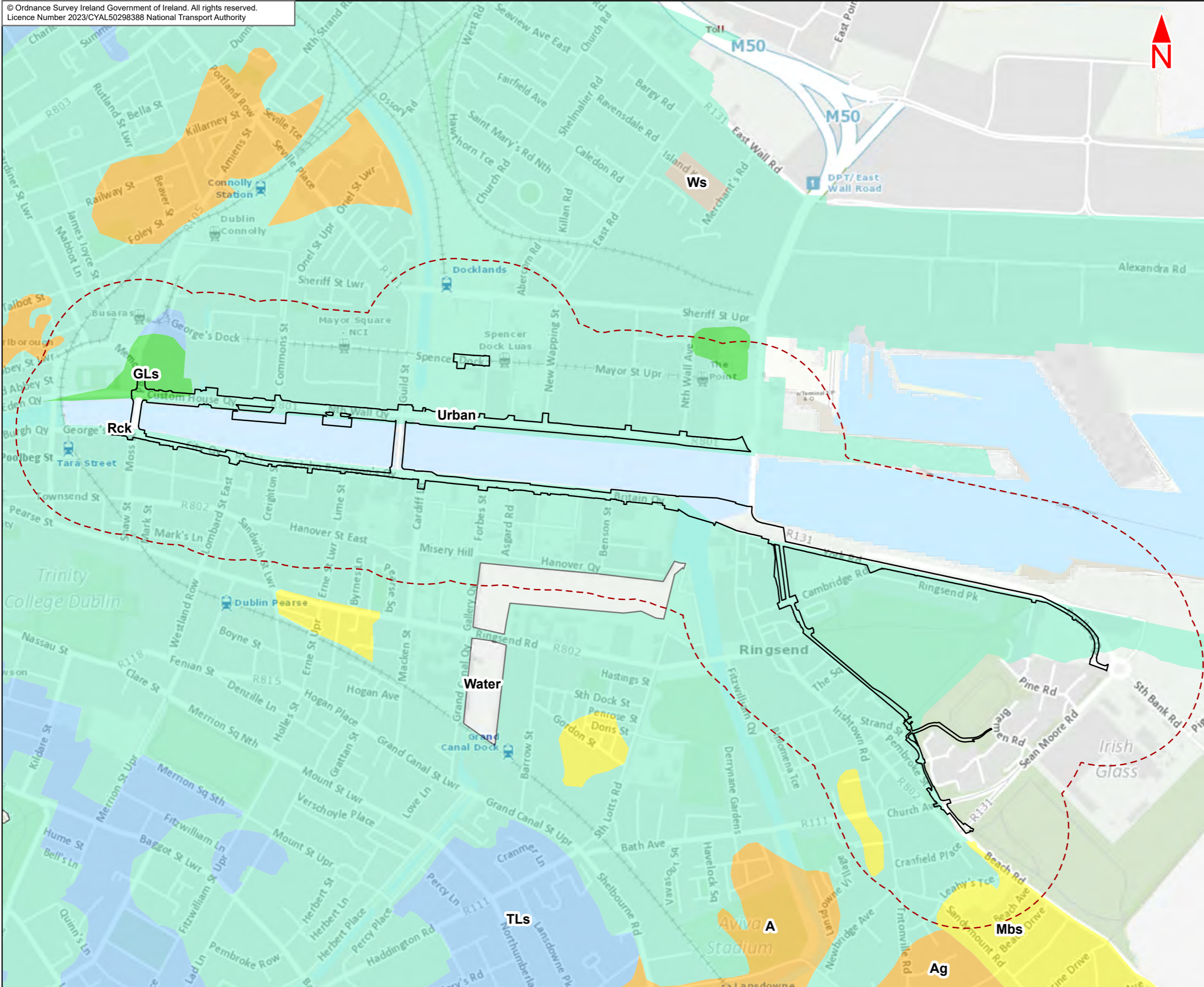
Client
NTA
Udarás Náisiúnta Iompair
National Transport Authority

Consultant
JACOBS ARUP SYSTRA

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS				
Drawing Title Ringsend to City Centre Core Bus Corridor Scheme Figure 14.8 Soil Deposits				
Date 06/04/2023	Scale @ A3 1:10000	Drawn FG	Checked PW	Approved DK
Project Code BCIDE	Originator Code JAC	QMS Code		Drawing File Name BCIDE-JAC-ENV_GT-0016_XX_00-DR-GG-0201
Sheet Number 1 of 1	Status A	Rev M01		

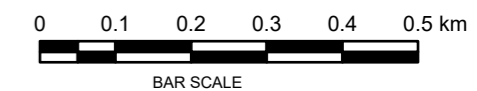
14.9
Subsoil Deposits





- Legend :**
- Ringsend to City Centre Core Bus Corridor Scheme
 - 250m Study Area
 - Quaternary Sediments - 1:50,000
 - A, Alluvium
 - Ag, Alluvium (gravelly)
 - GLs, Gravels derived from Limestones
 - Rck, Bedrock outcrop or subcrop
 - Mbs, Marine beach sands
 - TLs, Till derived from limestones
 - Ws, Windblown sands
 - Urban
 - Water

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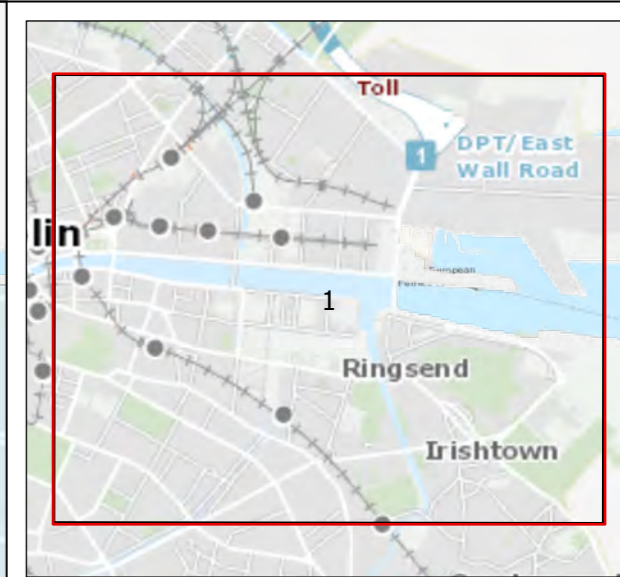
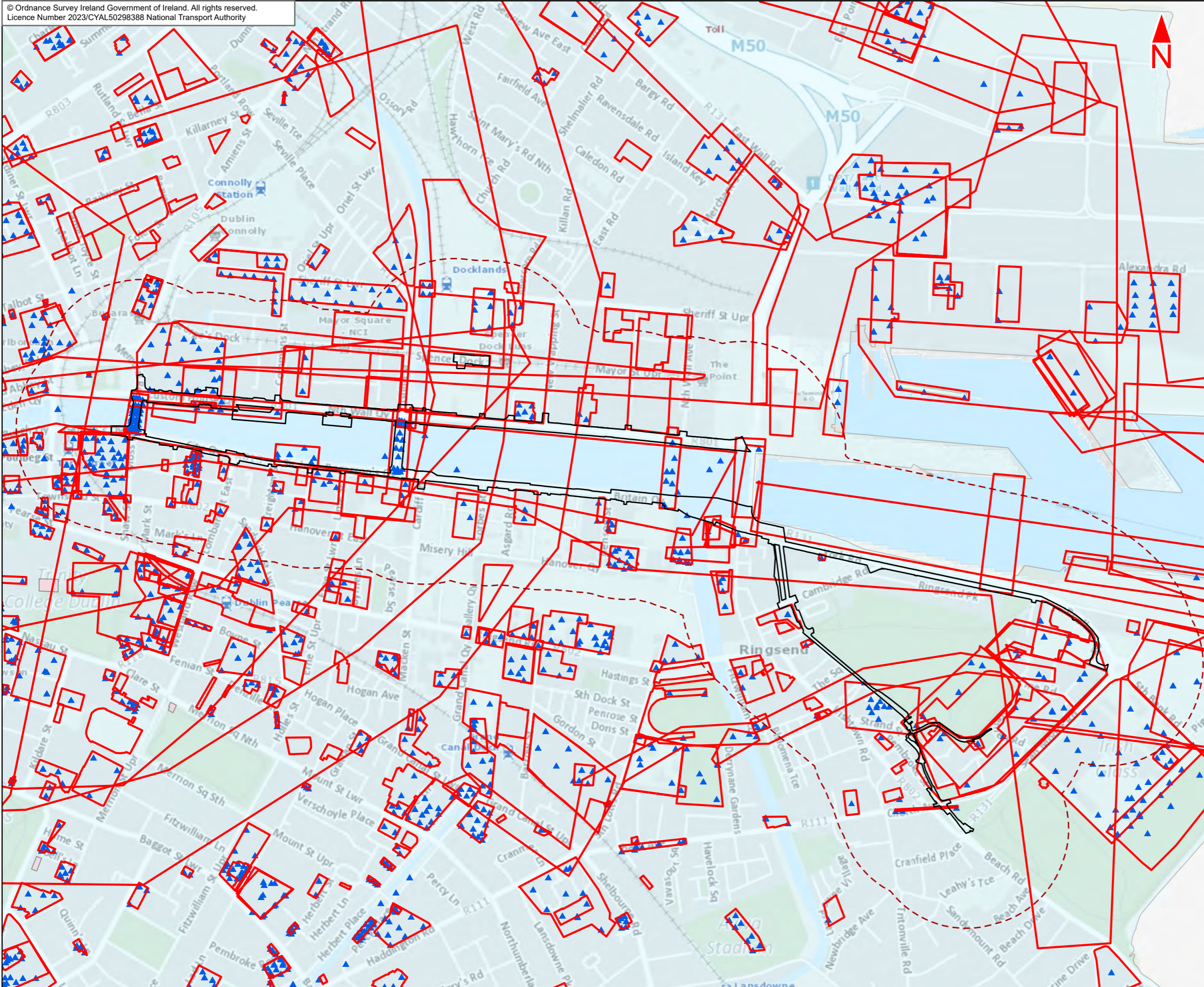
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National Transport Authority

Consultant
JACOBS ARUP SYSTRA

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS				
Drawing Title Ringsend to City Centre Core Bus Corridor Scheme Figure 14.9 Subsoil Deposits				
Date 06/04/2023	Scale @ A3 1:10000	Drawn FG	Checked PW	Approved DK
Project Code BCIDE	Originator Code JAC	QMS Code		
Drawing File Name BCIDE-JAC-ENV_GT-0016_XX_00-DR-GG-0301	Sheet Number 1 of 1	Status A	Rev M01	

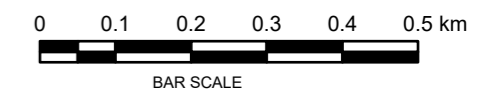
14.10
Bedrock Geology





- Legend :**
- Ringsend to City Centre Core Bus Corridor Scheme
 - 250m Study Area
 - GSI Geotechnical Sites
 - Geological Heritage Site
 - GSI Geotechnical Boreholes
- GSI Bedrock Geology - 1:100,000**
- Lucan Formation

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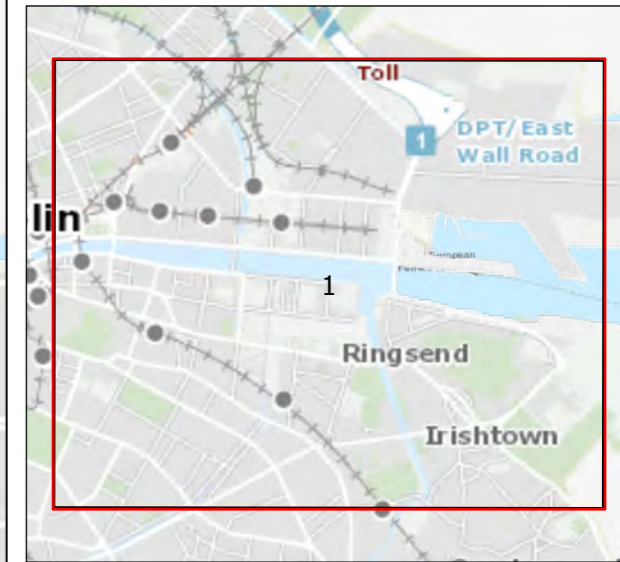
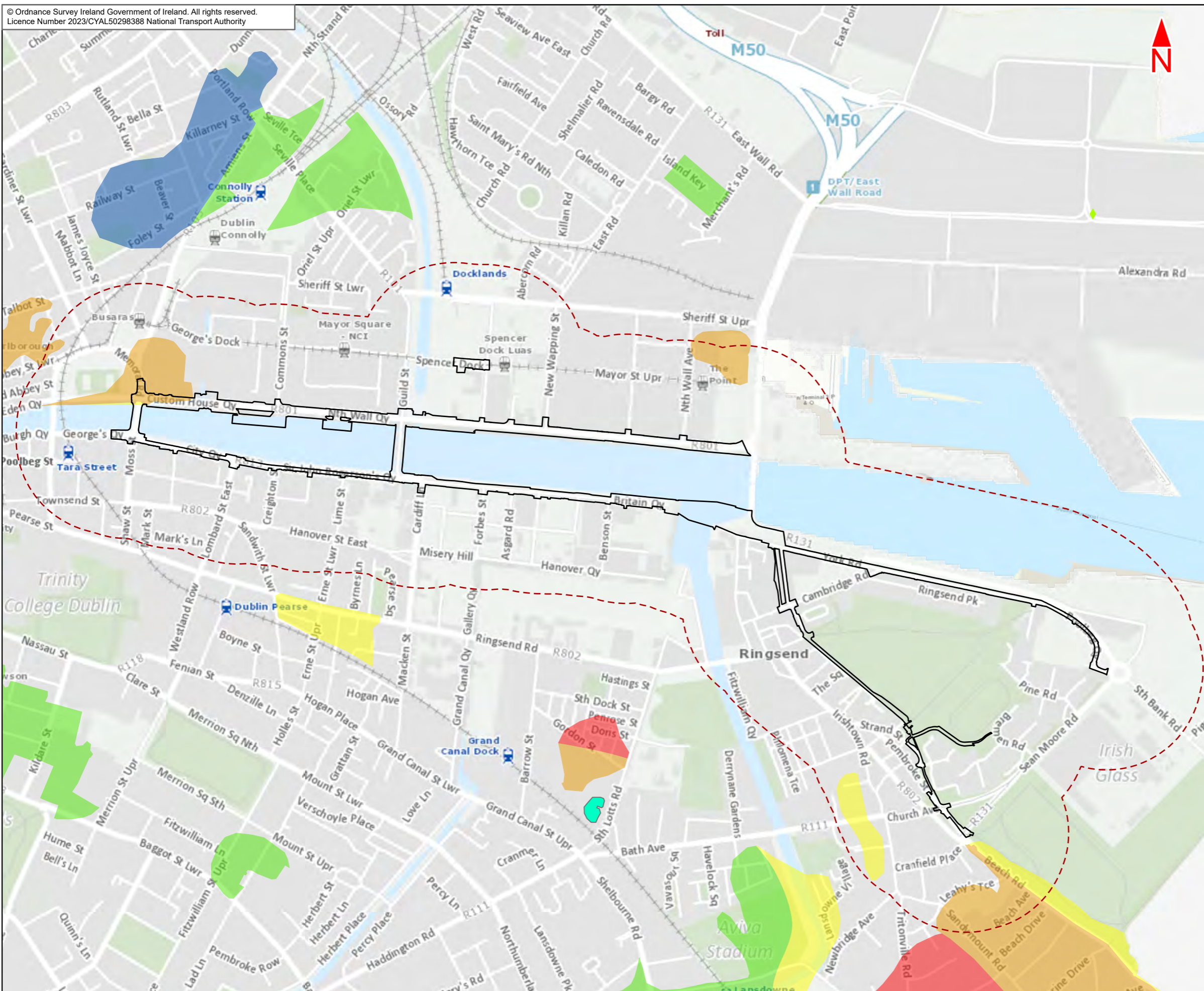
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National Transport Authority

Consultant
JACOBS
ARUP SYSTRA

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS				
Drawing Title Ringsend to City Centre Core Bus Corridor Scheme Figure 14.10 Bedrock Geology				
Date 06/04/2023	Scale @ A3 1:10000	Drawn FG	Checked PW	Approved DK
Project Code BCIDE-JAC-ENV	Originator Code JAC	QMS Code		Drawing File Name BCIDE-JAC-ENV_GT-0016_XX_00-DR-GG-0401
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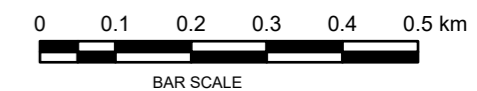
14.11
Granular Aggregate Potential





- Legend :**
- Ringsend to City Centre Core Bus Corridor Scheme
 - - - 250m Study Area
 - Mineral Locations**
 - ◆ Metallic
 - Pits and Quarries Areas
 - GSI Aggregate Potential Mapping - Granular Aggregate Potential**
 - Very High potential
 - High potential
 - Moderate potential
 - Low potential
 - Very Low potential

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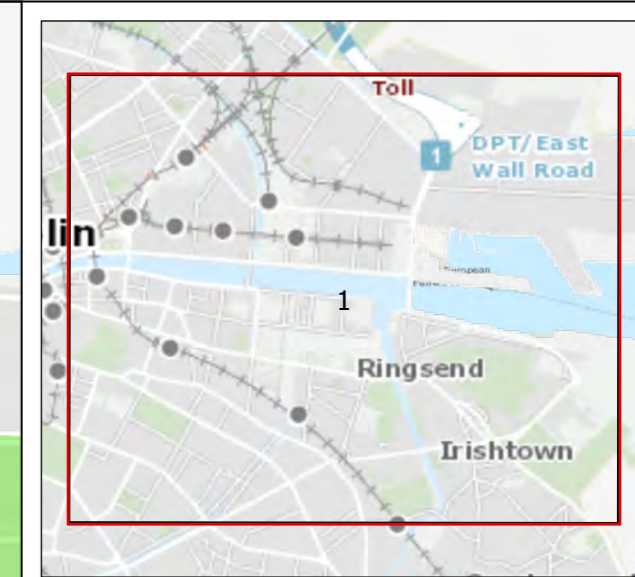
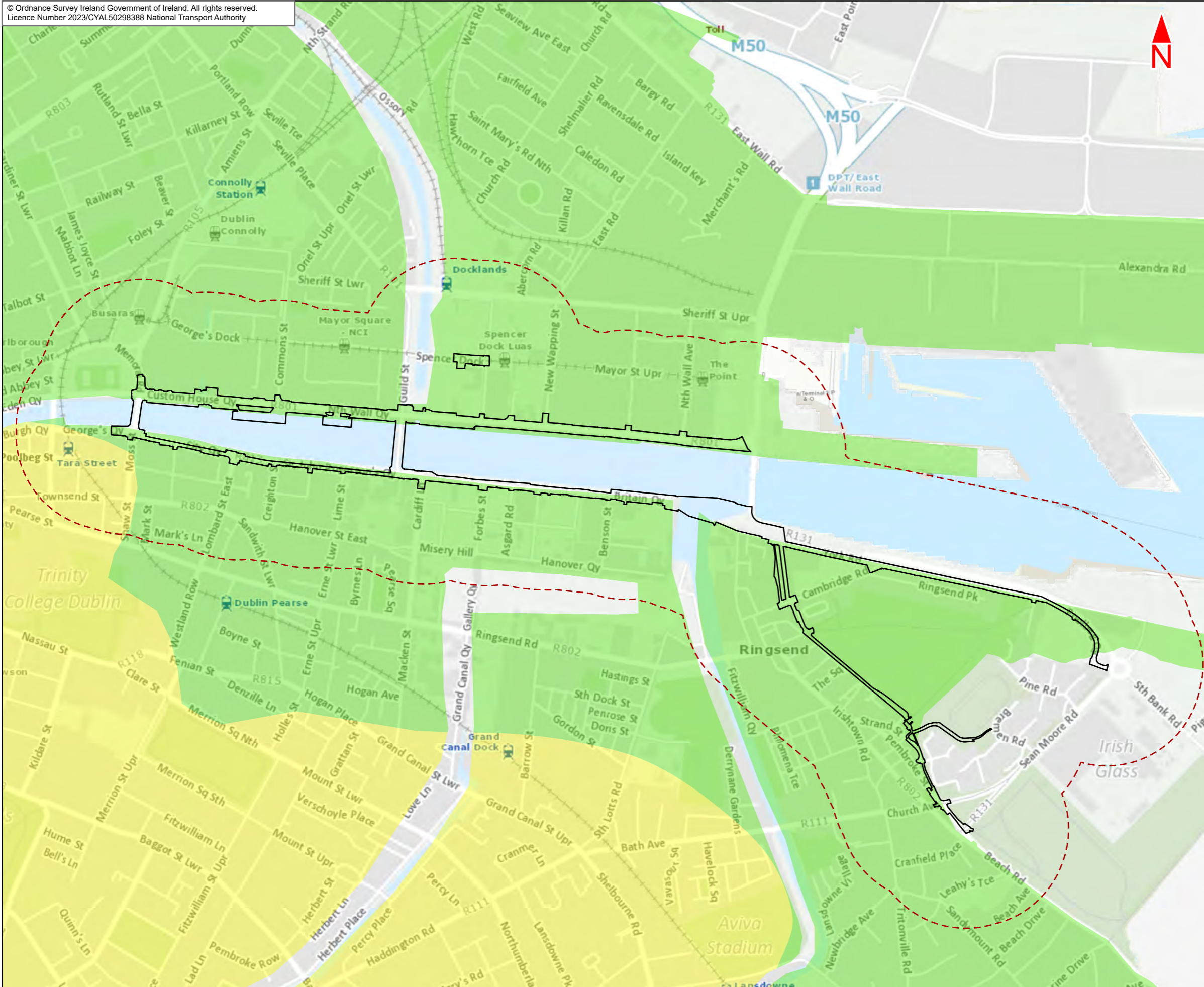
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Client NTA Udarás Náisiúnta Iompair National Transport Authority		Consultant JACOBS ARUP SYSTRA		
Date 06/04/2023	Scale @ A3 1:10000	Drawn FG	Checked PW	Approved DK
Project Code BCIDE	Originator Code JAC	QMS Code		

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS				
Drawing Title Ringsend to City Centre Core Bus Corridor Scheme Figure 14.11 Granular Aggregate Potential				
Drawing File Name BCIDE-JAC-ENV_GT-0016_XX_00-DR-GG-0501	Sheet Number 1 of 1	Status A	Rev M01	

14.12
Crushed Rock
Aggregate Potential





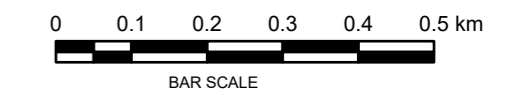
Legend :

- Ringsend to City Centre Core Bus Corridor Scheme
- - - 250m Study Area

GSI Aggregate Potential Mapping - Crushed Rock Aggregate Potential

- Yellow Moderate potential
- Green Low potential

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Udarás Náisiúnta Iompair
National Transport Authority

Consultant: **JACOBS ARUP SYSTRA**

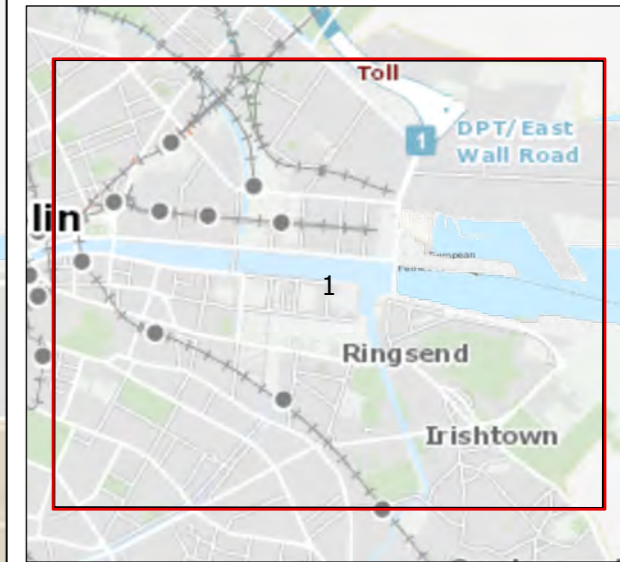
Date: 06/04/2023 Scale @ A3: 1:10000
Project Code: BCIDE Originator Code: JAC

Drawn: FG Checked: PW Approved: DK
QMS Code:

Programme Title: BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title: Ringsend to City Centre Core Bus Corridor Scheme Figure 14.12 Crushed Rock Aggregate Potential			
Drawing File Name: BCIDE-JAC-ENV_GT-0016_XX_00-DR-GG-0601	Sheet Number: 1 of 1	Status: A	Rev: M01

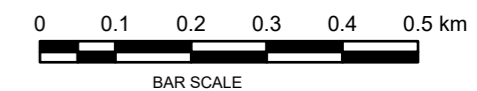
14.13
Aquifers





- Legend :**
- Ringsend to City Centre Core Bus Corridor Scheme
 - 250m Study Area
 - Rivers Of Dublin
 - Groundwater Wells and Springs
 - GSI Bedrock Aquifer**
 - Locally Important Aquifer - Bedrock which is Moderately Productive only in Local Zones (LI)

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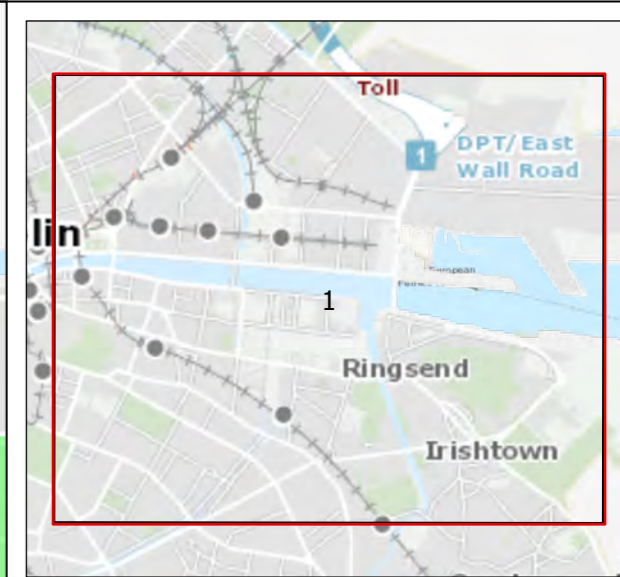
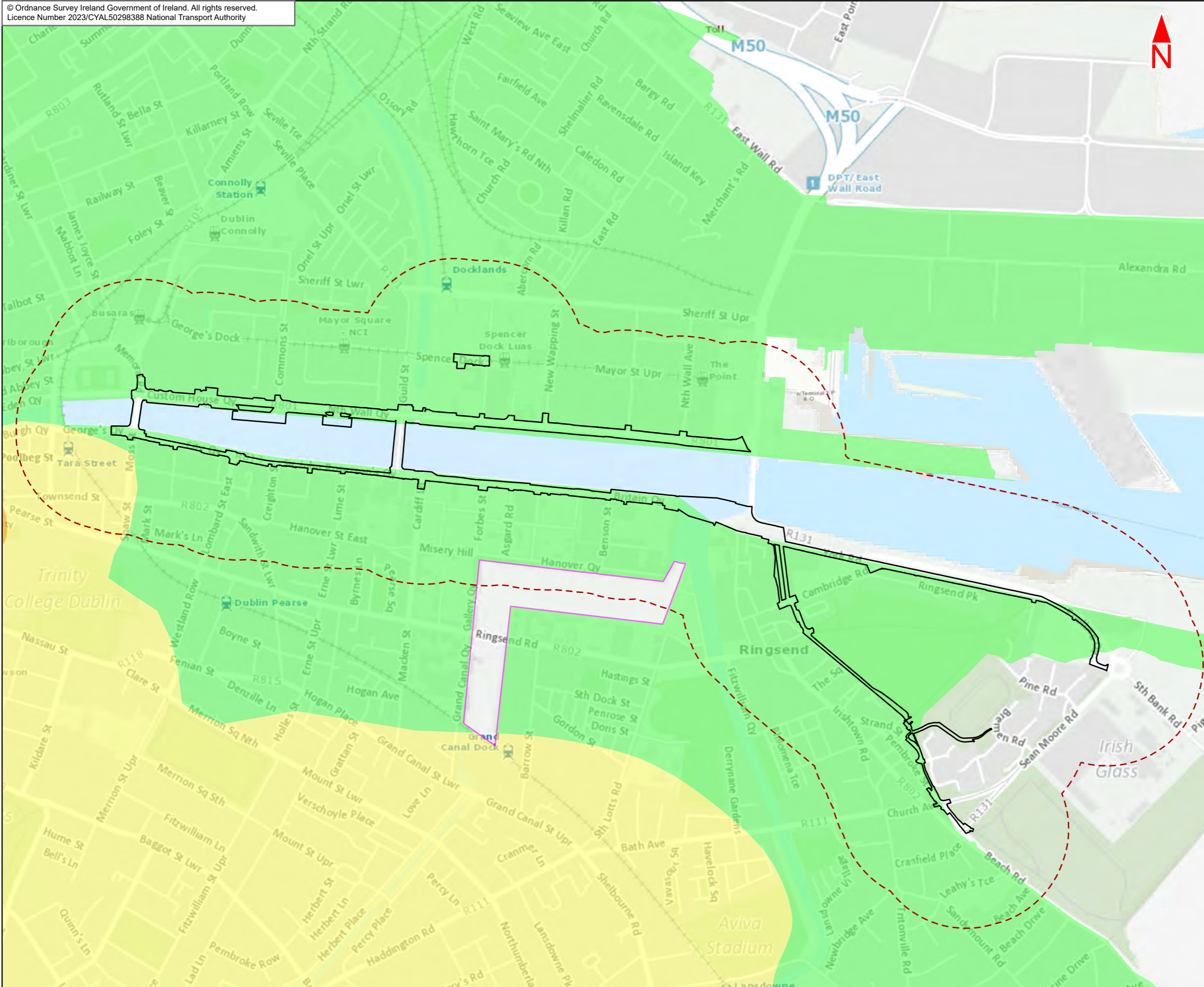
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Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS				
Drawing Title Ringsend to City Centre Core Bus Corridor Scheme Figure 14.13 Aquifers				
Date 06/04/2023	Scale @ A3 1:10000	Drawn FG	Checked PW	Approved DK
Project Code BCIDE	Originator Code JAC	QMS Code		Drawing File Name BCIDE-JAC-ENV_GT-0016_XX_00-DR-GG-0701
Sheet Number 1 of 1	Status A	Rev M01		

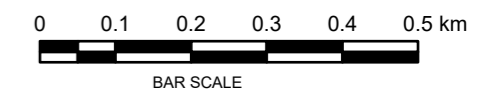


14.14
Groundwater Vulnerability



- Legend :**
- Ringsend to City Centre Core Bus Corridor Scheme
 - 250m Study Area
 - GSI National Groundwater Vulnerability**
 - High
 - Moderate
 - Low
 - Water

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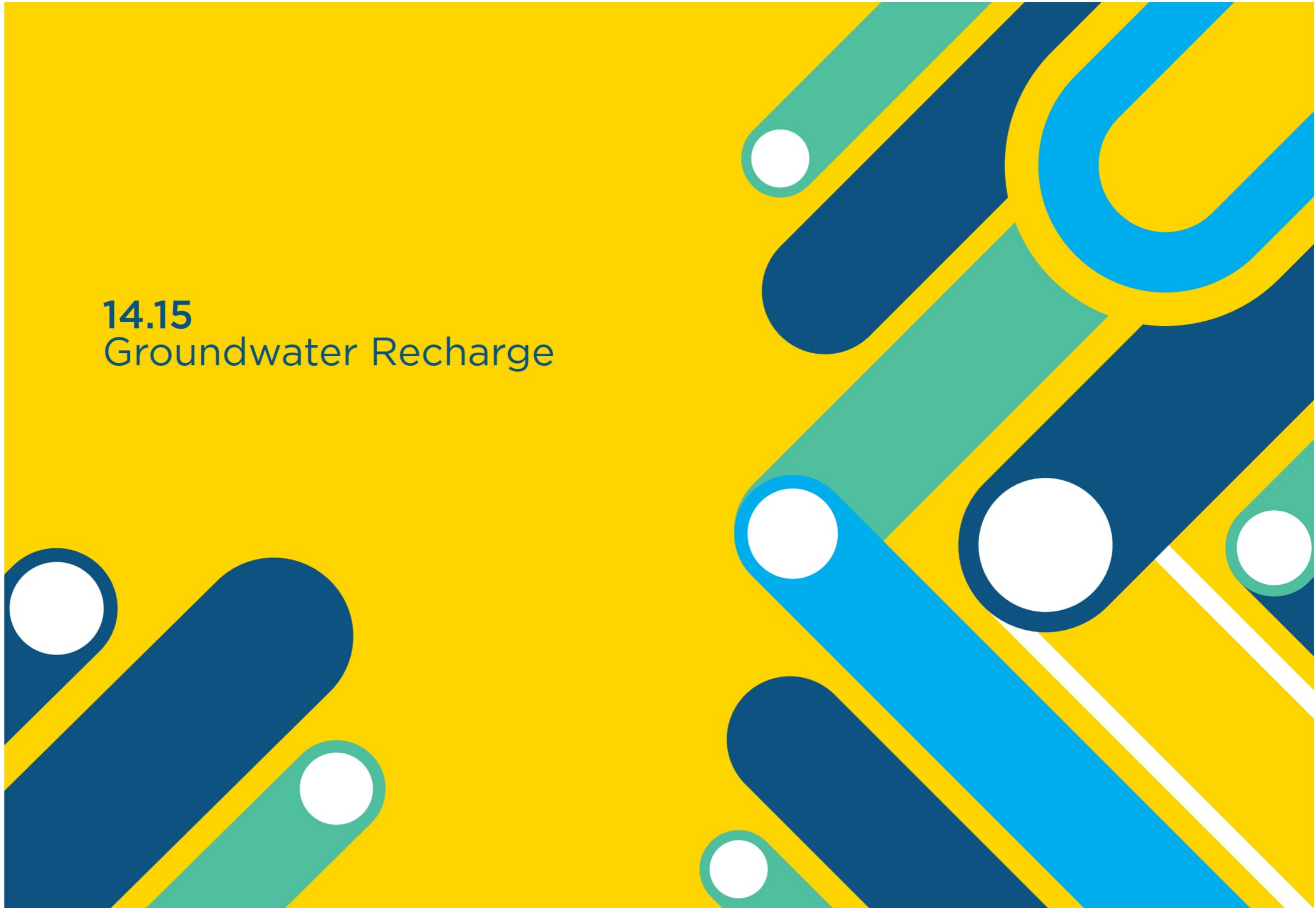
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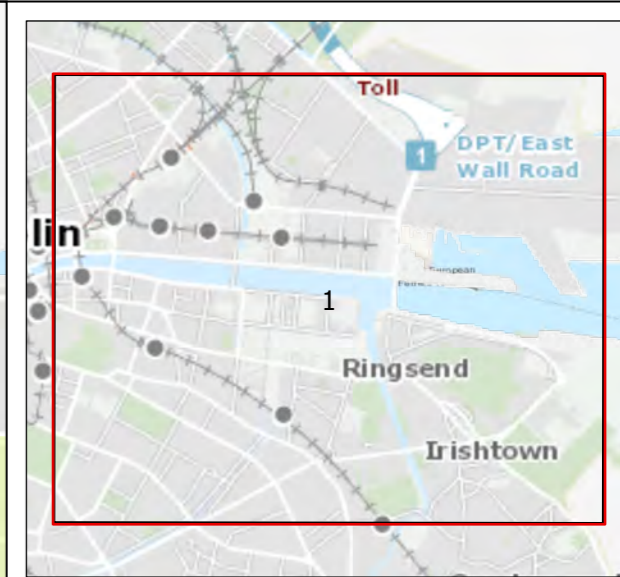
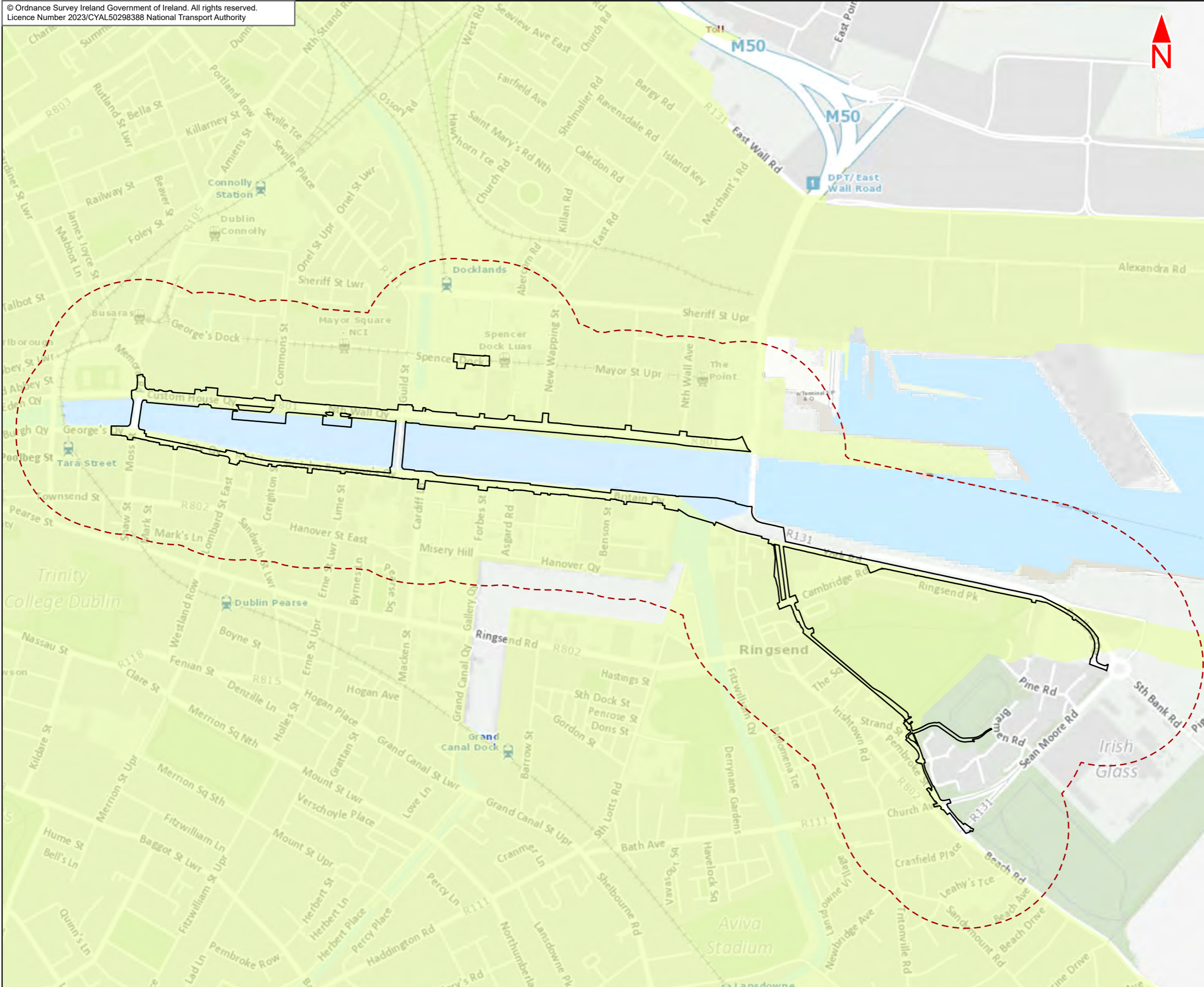
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Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS				
Drawing Title Ringsend to City Centre Core Bus Corridor Scheme Figure 14.14 Groundwater Vulnerability				
Date 06/04/2023	Scale @ A3 1:10000	Drawn FG	Checked PW	Approved DK
Project Code BCIDE	Originator Code JAC	QMS Code		
Drawing File Name BCIDE-JAC-ENV_GT-0016_XX_00-DR-GG-0801	Sheet Number 1 of 1	Status A	Rev M01	

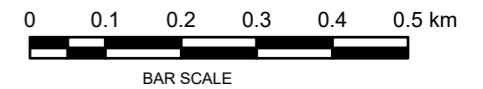
14.15
Groundwater Recharge





- Legend :**
- Ringsend to City Centre Core Bus Corridor Scheme
 - 250m Study Area
 - GSI Groundwater Recharge**
 - Annual Recharge (mm)**
 - 51-100 mm

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Rev	Date	Drn	Chk'd	App'd	Description
M01	Apr 23	FG	PW	DK	ISSUE FOR PHASE 4 : PLANNING

Client Udarás Náisiúnta Iompair National Transport Authority		Consultant 		
Date	Scale @ A3	Drawn	Checked	Approved
06/04/2023	1:10000	FG	PW	DK
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BCIDE	JAC			

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS				
Drawing Title Ringsend to City Centre Core Bus Corridor Scheme Figure 14.15 Groundwater Recharge				
Drawing File Name	Sheet Number	Status	Rev	
BCIDE-JAC-ENV_GT-0016_XX_00-DR-GG-0901	1 of 1	A	M01	