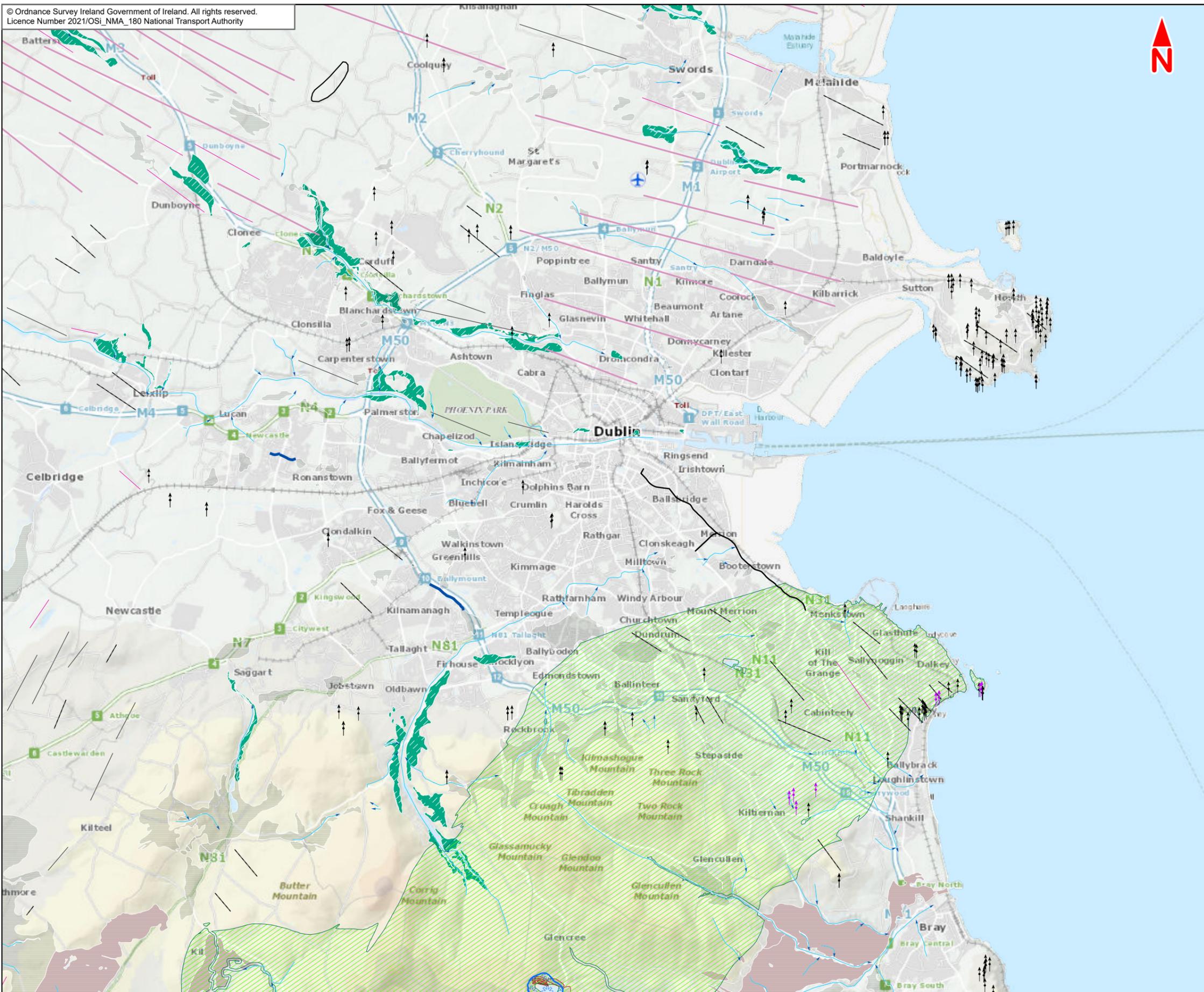




14.1
Regional Geomorphology



- Legend :**
- Belfield / Blackrock to City Centre Core Bus Corridor Scheme
 - GSI Quaternary Geomorphology**
 - Subglacial Lineation Striae**
 - ↑ Striae
 - ↑ Roche Moutonnee
 - Subglacial Lineation Landforms**
 - Crag-and-Tail
 - Drumlin
 - Mega scale glacial lineation
 - Streamlined Bedrock
 - Meltwater Landforms**
 - Esker ridge
 - Meltwater channel
 - Subglacial Moraines**
 - Composite Thrust Block Moraine
 - Mountain Glaciation Corries**
 - Corries
 - Erratic Carriage Source**
 - Indicator erratic source area
 - Deglacial Landforms**
 - Delta
 - Glaciofluvial Terrace
 - Hummocky Sand and Gravel
 - Moraine Ridge

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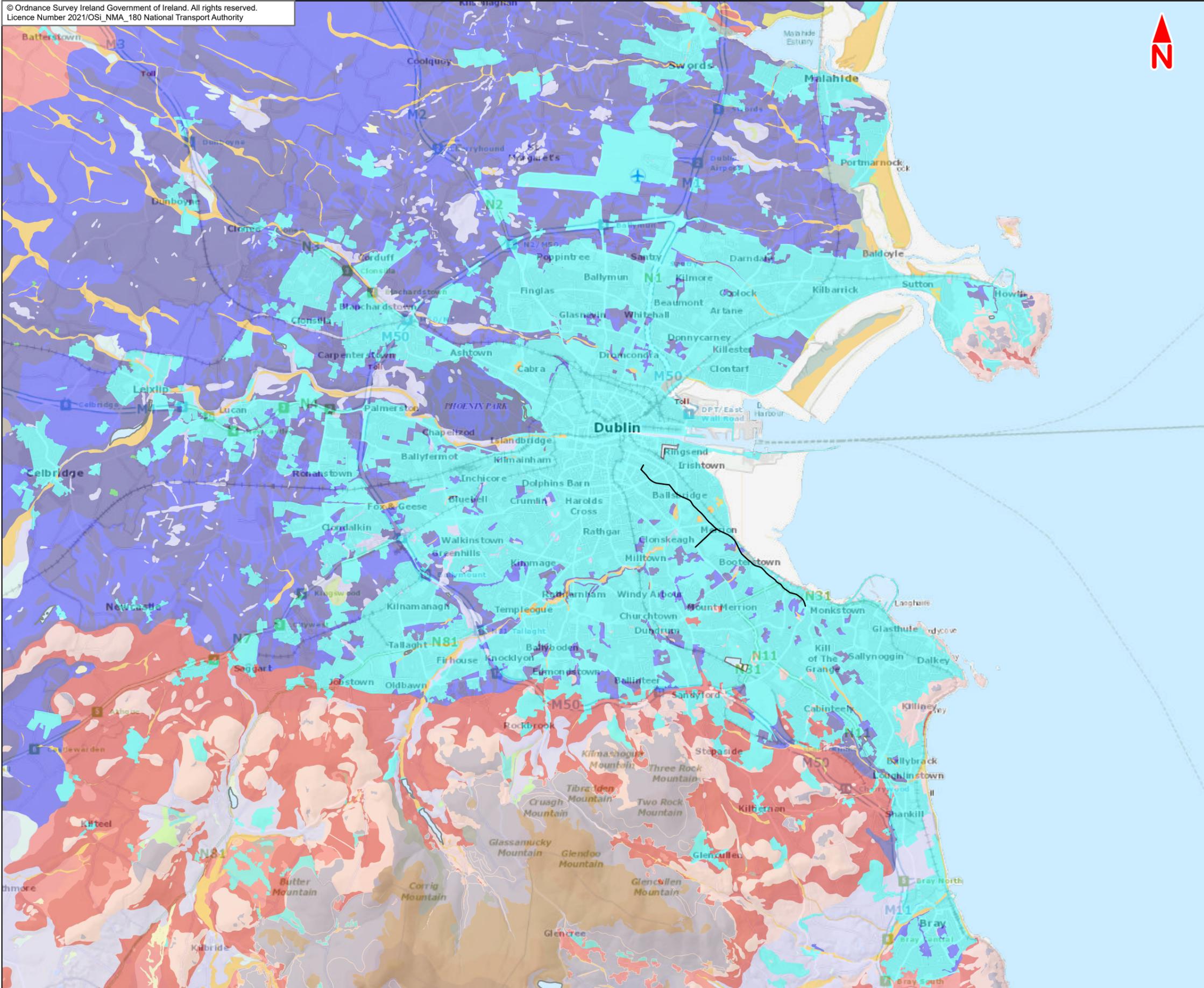
Client
NTA
Udarás Náisiúnta Iompair
National Transport Authority

Consultant
JACOBS
ARUP SYSTRA

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS				
Drawing Title Belfield / Blackrock to City Centre Core Bus Corridor Scheme Figure 14.1 Regional Geomorphology				
Date 01/02/2022	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-1415_XX_00-DR-GG-00001	Sheet Number 1 of 1	Status A	Rev M01	

14.2 Regional Soils





Legend :

Liffey Valley to City Centre Core Bus Corridor Scheme	BminPD - Surface water Gleys / Ground water Gleys Basic
Teagasc Soils	BminPDPT - Peaty Gleys Basic Parent Materials Basic
AeolUND - 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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Udarás Náisiúnta Iompair
National Transport Authority

Consultant: **JACOBS ARUP SYSTRA**

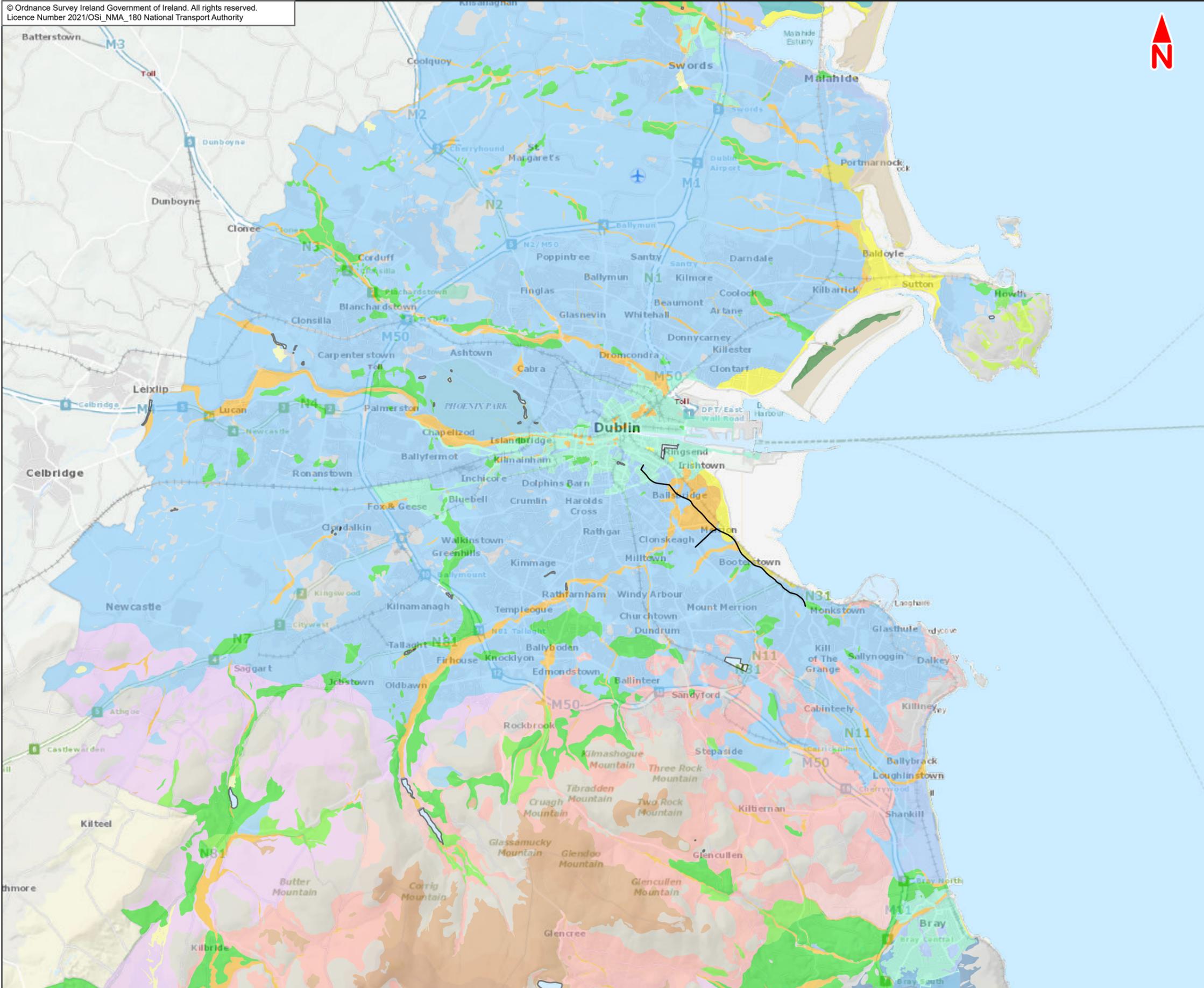
Date: 01/02/2022 | Scale @ A3: 1:125 000
Project Code: BCIDE | Originator Code: JAC

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

Programme Title: BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title: Belfield / Blackrock to City Centre Core Bus Corridor Scheme Figure 14.2 Regional Soils			
Drawing File Name: BCIDE-JAC-ENV_GT-1415_XX_00-DR-GG-00002	Sheet Number: 1 of 1	Status: A	Rev: M01

14.3 Regional Subsoils





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

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National Transport Authority

Consultant: **JACOBS ARUP SYSTRA**

Date: 01/02/2022 | Scale @ A3: 1:125 000

Project Code: BCIDE | Originator Code: JAC

Drawn: FG | Checked: PW | Approved: DK

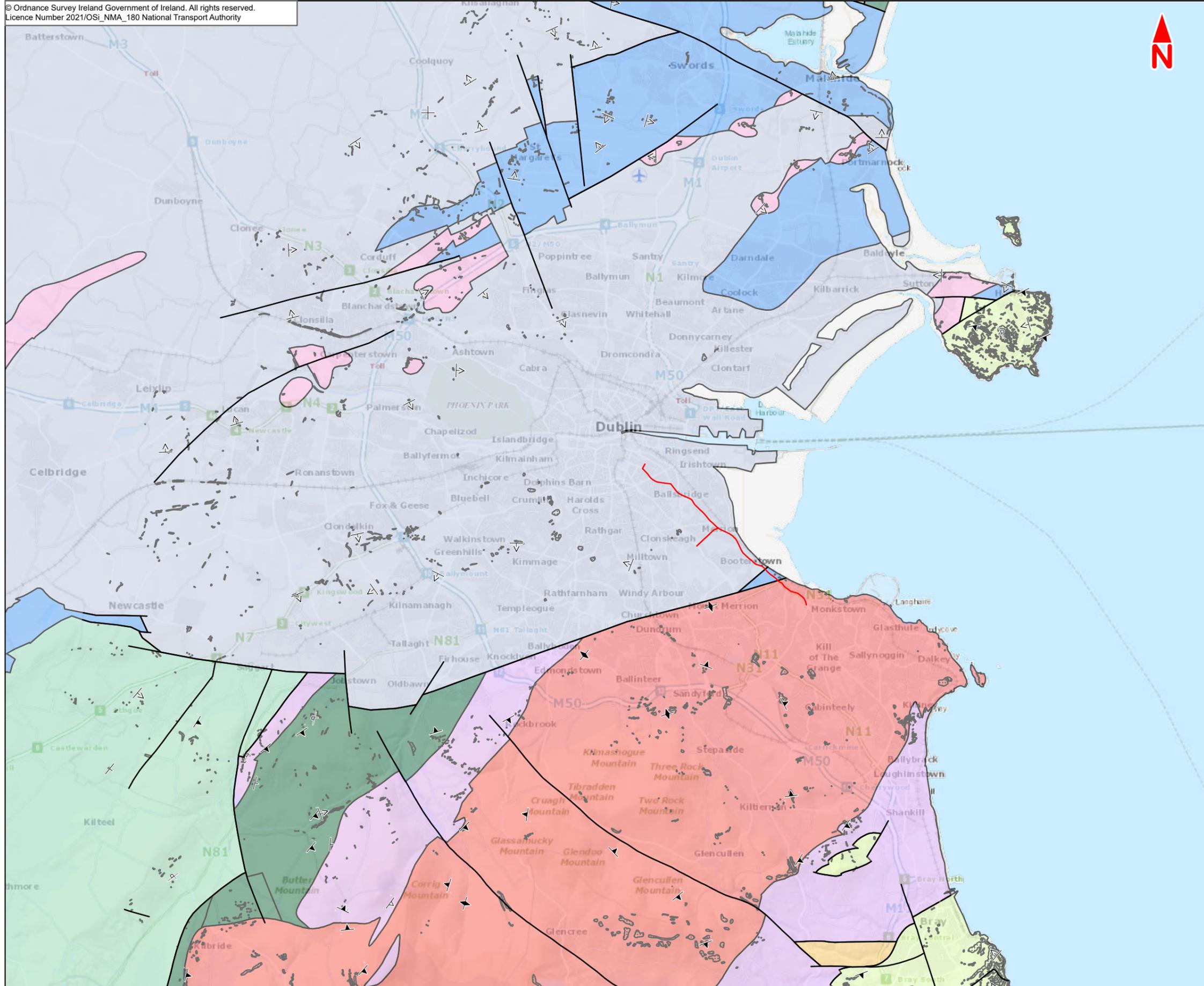
Programme Title: **BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS**

Drawing Title: Belfield / Blackrock to City Centre Core Bus Corridor Scheme Figure 14.3 Regional Subsoils

Drawing File Name: BCIDE-JAC-ENV_GT-1415_XX_00-DR-GG-00003 | Sheet Number: 1 of 1 | Status: A | Rev: M01

14.4
Regional Bedrock





- Legend :**
- Belfield / Blackrock 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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Project Code: BCIDE
Originator Code: JAC

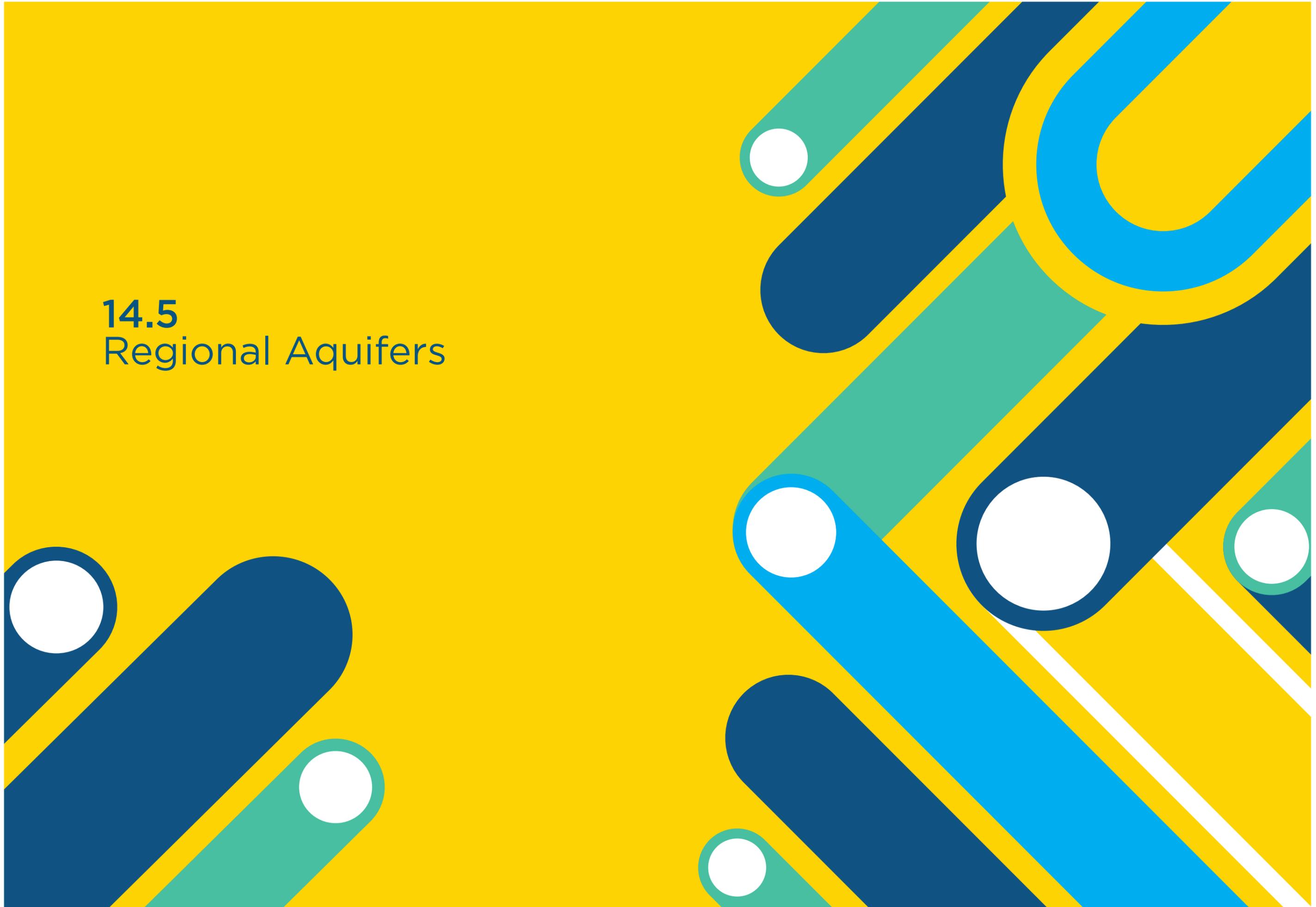
Consultant
JACOBS ARUP SYSTRA

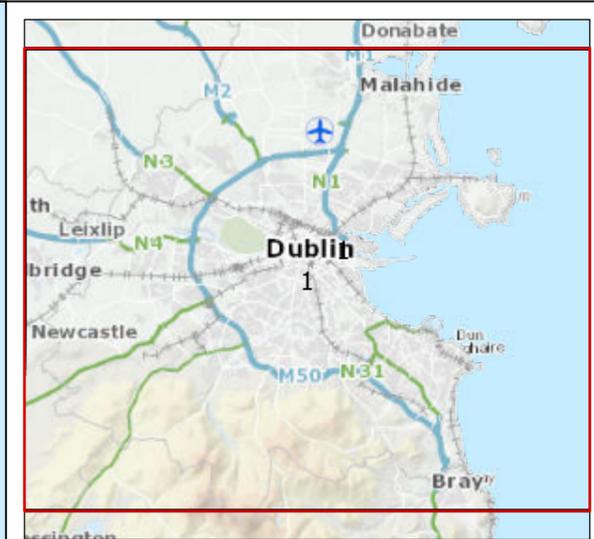
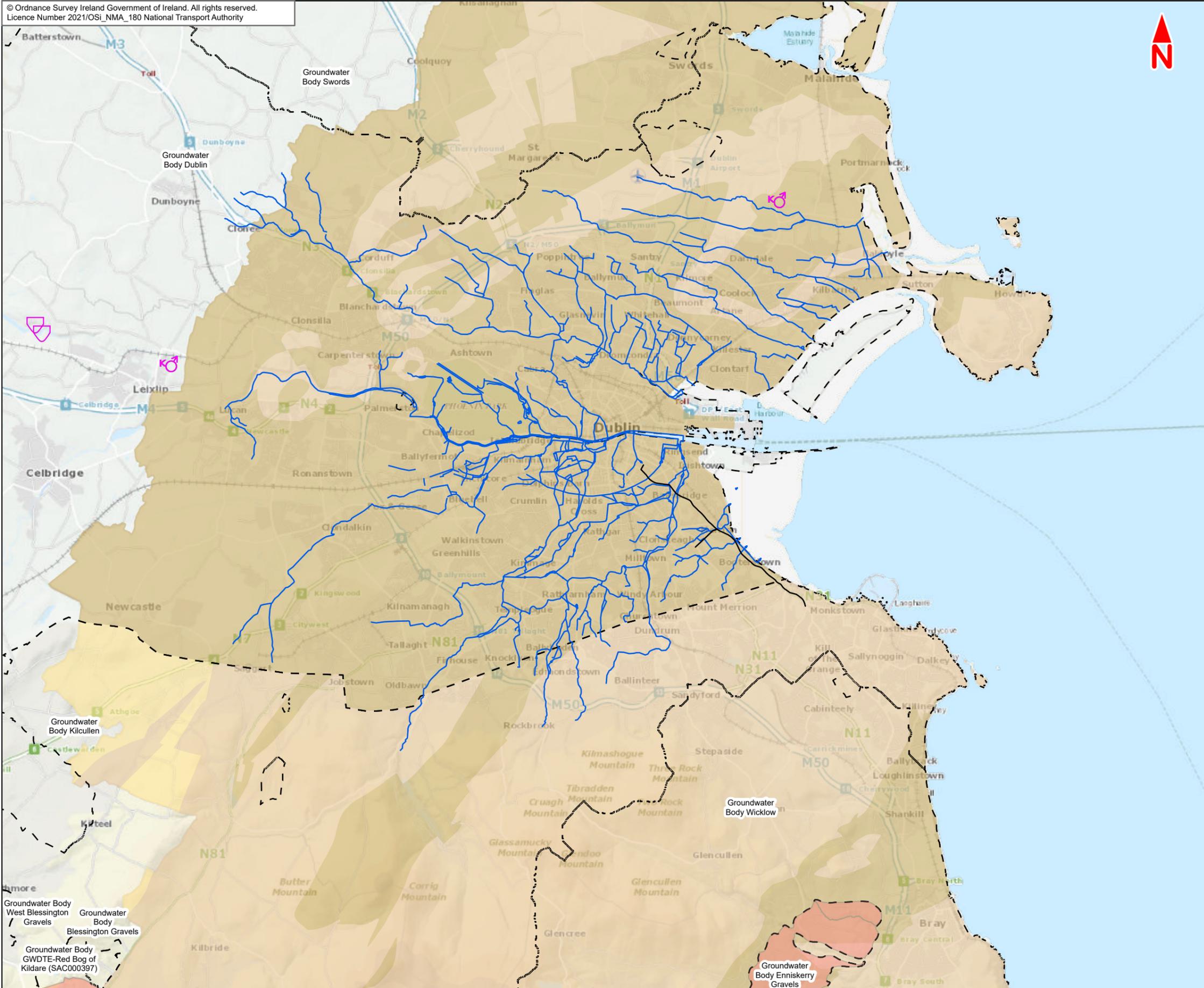
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Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title Belfield / Blackrock to City Centre Core Bus Corridor Scheme Figure 14.4 Regional Bedrock			
Drawing File Name BCIDE-JAC-ENV_GT-1415_XX_00-DR-GG-00004	Sheet Number 1 of 1	Status A	Rev M01

14.5 Regional Aquifers





Legend :

- Belfield / Blackrock 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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Project Code	BCIDE	Originator Code	JAC	QMS Code					

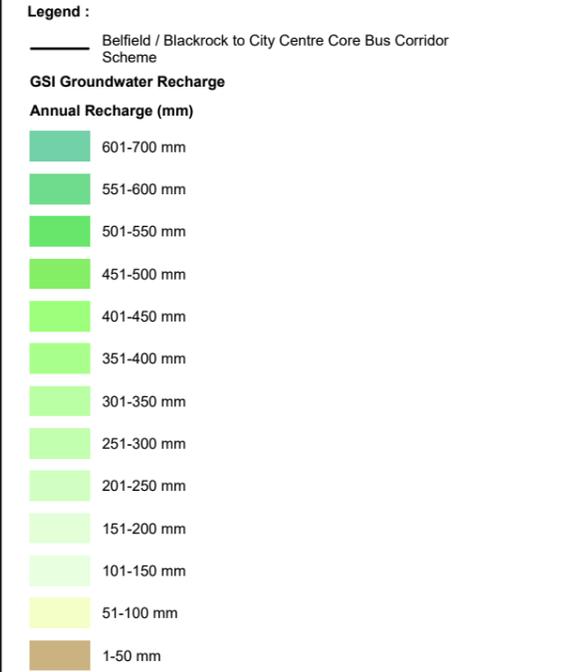
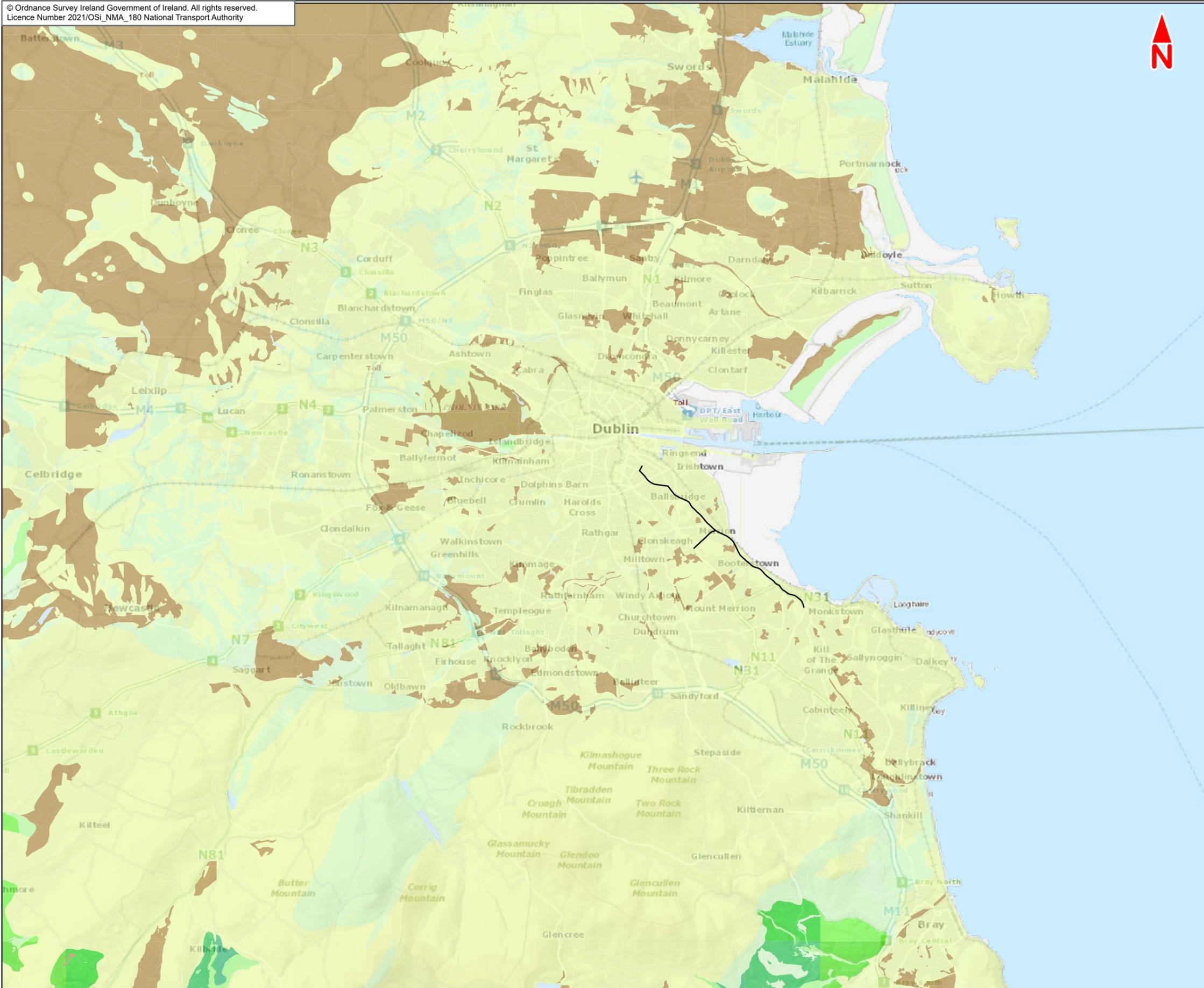
Programme Title
BUSCONNECTS DUBLIN
CORE BUS CORRIDORS INFRASTRUCTURE WORKS

Drawing Title
 Belfield / Blackrock to City Centre Core Bus Corridor Scheme
 Figure 14.5
 Regional Aquifers

Drawing File Name	BCIDE-JAC-ENV_GT-1415_XX_00-DR-GG-00005	Sheet Number	1 of 1	Status	A	Rev	M01
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14.6
Regional Groundwater
Recharge





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Consultant: **JACOBS ARUP SYSTRA**

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Project Code: BCIDE | Originator Code: JAC

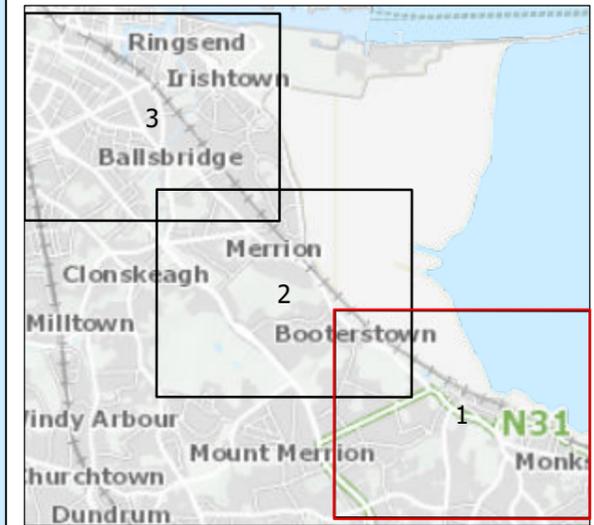
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QMS Code: _____

Programme Title: BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title: Belfield / Blackrock to City Centre Core Bus Corridor Scheme Figure 14.6 Regional Groundwater Recharge			
Drawing File Name: BCIDE-JAC-ENV_GT-1415_XX_00-DR-GG-00006	Sheet Number: 1 of 1	Status: A	Rev: M01

14.7
Topography and
Geomorphology





- Legend :**
- Belfield / Blackrock to City Centre Core Bus Corridor Scheme
 - 250m Study Area
 - EPA Contours
 - Meltwater Landforms**
 - LANDFORM**
 - Meltwater channel
 - Erratic Carriage Source**
 - Landform**
 - Indicator erratic source area
 - Deglacial Landforms**
 - Landform**
 - Hummocky Sand and Gravel

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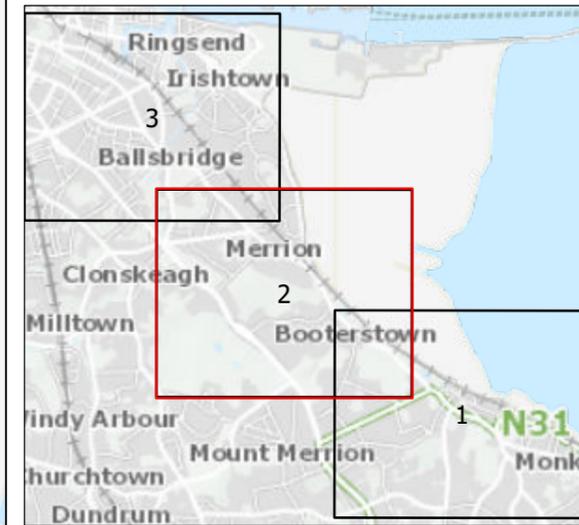
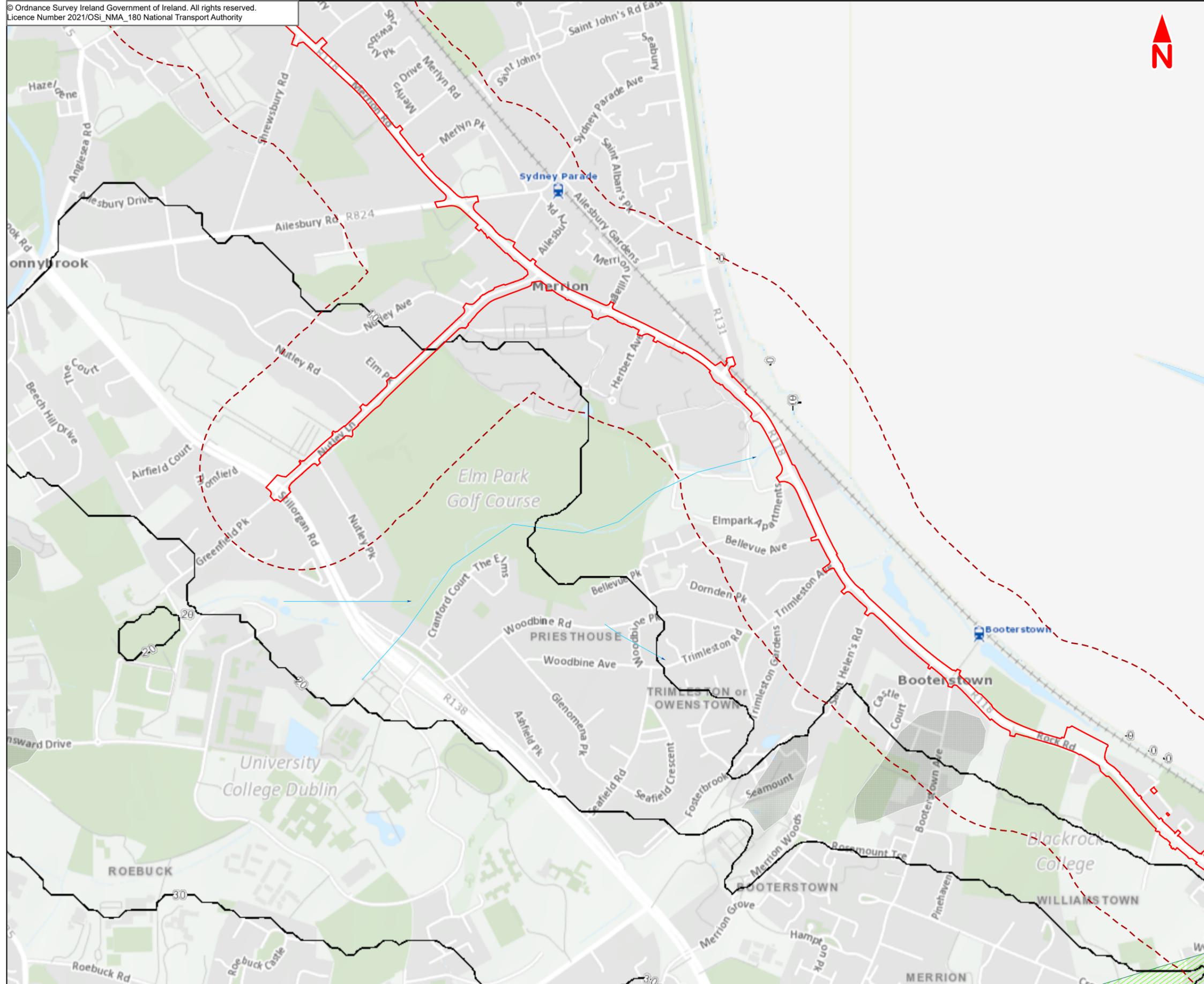
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Project Code: BCIDE | Originator Code: JAC

Drawn: FG | Checked: PW | Approved: DK

QMS Code: _____

Programme Title: BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title: Belfield / Blackrock to City Centre Core Bus Corridor Scheme Figure 14.7 Topography and Geomorphology			
Drawing File Name: BCIDE-JAC-ENV_GT-1415_XX_00-DR-GG-0101	Sheet Number: 1 of 3	Status: A	Rev: M01



- Legend :**
- Belfield / Blackrock to City Centre Core Bus Corridor Scheme
 - - - 250m Study Area
 - EPA Contours
 - Meltwater Landforms**
 - LANDFORM
 - Meltwater channel
 - Erratic Carriage Source**
 - Landform
 - ▨ Indicator erratic source area
 - Deglacial Landforms**
 - Landform
 - ▨ Hummocky Sand and Gravel

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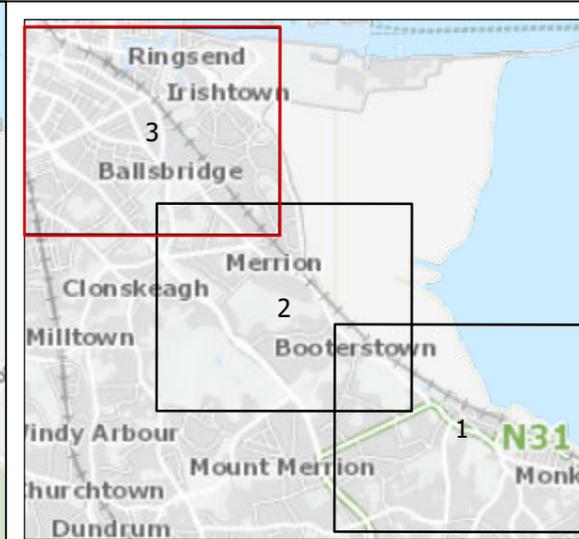
Rev	Date	Drn	Chk'd	App'd	Description
M01	Feb 22	FG	PW	DK	ISSUE FOR PHASE 4 : PLANNING

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

Consultant: **JACOBS ARUP SYSTRA**

Date: 02/02/2022 | Scale @ A3: 1:10,000
 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: Belfield / Blackrock to City Centre Core Bus Corridor Scheme Figure 14.7 Topography and Geomorphology			
Drawing File Name: BCIDE-JAC-ENV_GT-1415_XX_00-DR-GG-0102	Sheet Number: 2 of 3	Status: A	Rev: M01



- Legend :**
- Belfield / Blackrock to City Centre Core Bus Corridor Scheme
 - - - 250m Study Area
 - EPA Contours
 - Deglacial Landforms**
 - Landform
 - Hummocky Sand and Gravel

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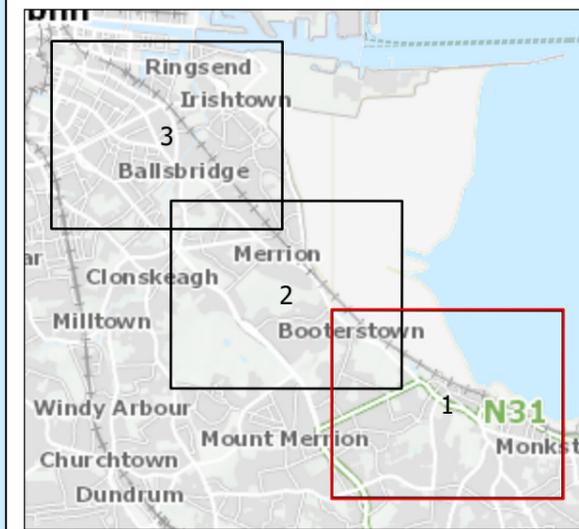
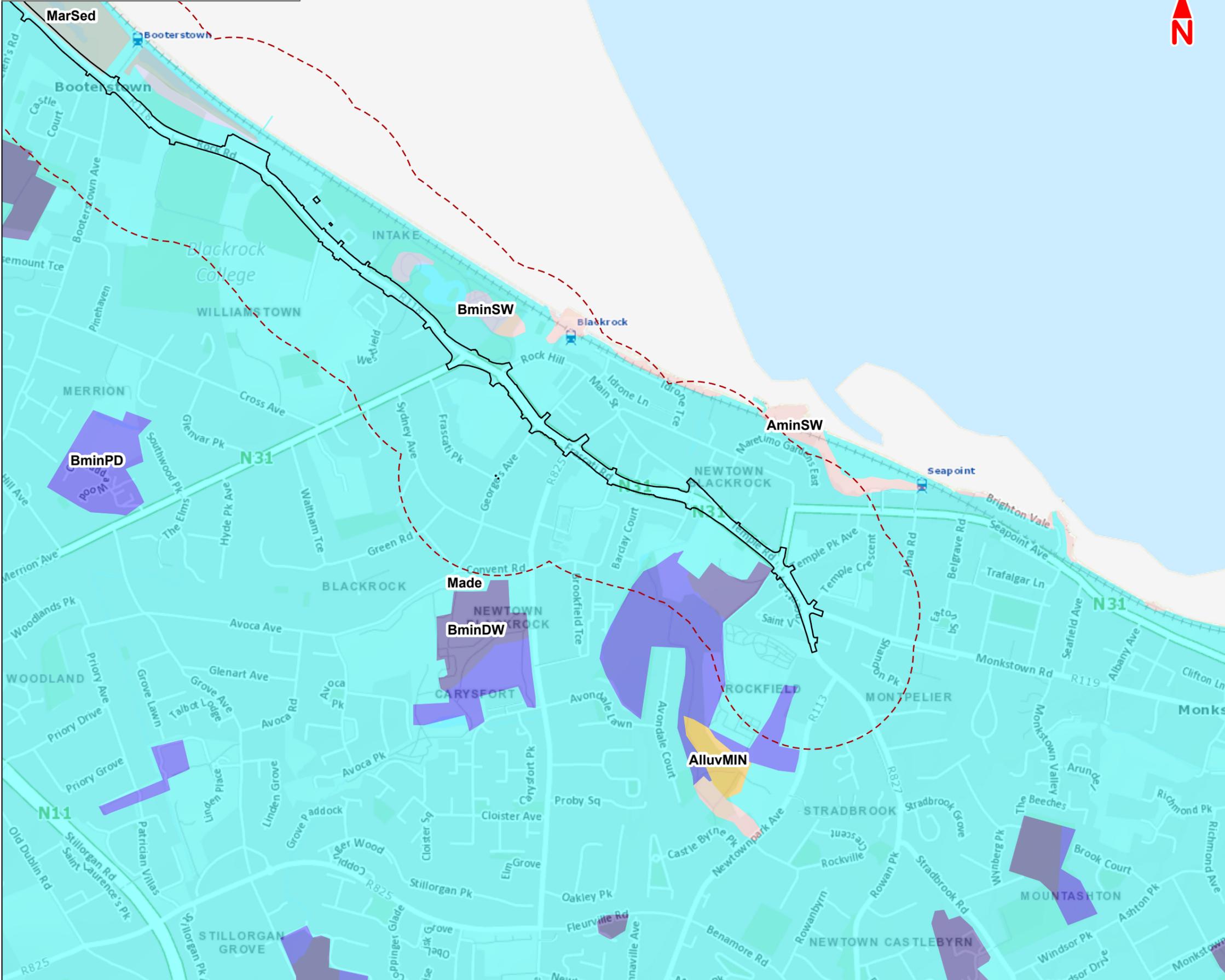
Rev	Date	Drn	Chk'd	App'd	Description
M01	Feb 22	FG	PW	DK	ISSUE FOR PHASE 4 : PLANNING

Client NTA Udarás Náisiúnta Iompair National Transport Authority		Consultant JACOBS ARUP SYSTRA		
Date 02/02/2022	Scale @ A3 1:10,000	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 Belfield / Blackrock to City Centre Core Bus Corridor Scheme Figure 14.7 Topography and Geomorphology				
Drawing File Name BCIDE-JAC-ENV_GT-1415_XX_00-DR-GG-0103	Sheet Number 3 of 3	Status A	Rev M01	

14.8 Soil Deposits





- Legend :**
- Belfield / Blackrock to City Centre Scheme
 - 250m Study Area
 - Teagasc Soils**
 - AlluvMIN - Mineral alluvium
 - AminSW - Lithosols / Regosols
 - BminDW - Grey Brown Podzolics / Brown Earths Basic
 - BminPD - Surface water Gleys / Ground water Gleys Basic
 - BminSW - Renzinas / Lithosols
 - Made
 - MarSed

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Client
NTA
Udarás Náisiúnta Iompair
National Transport Authority

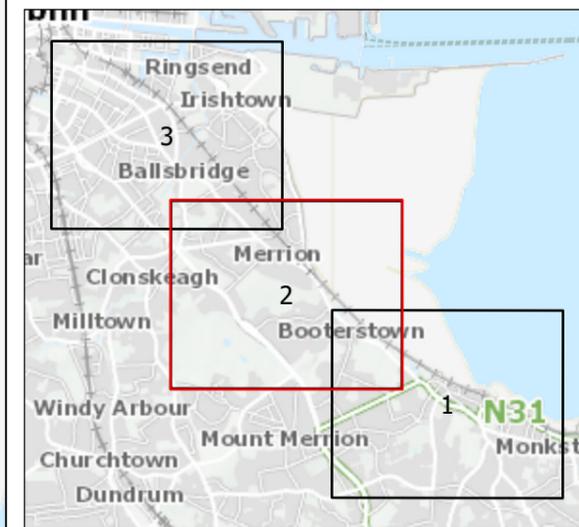
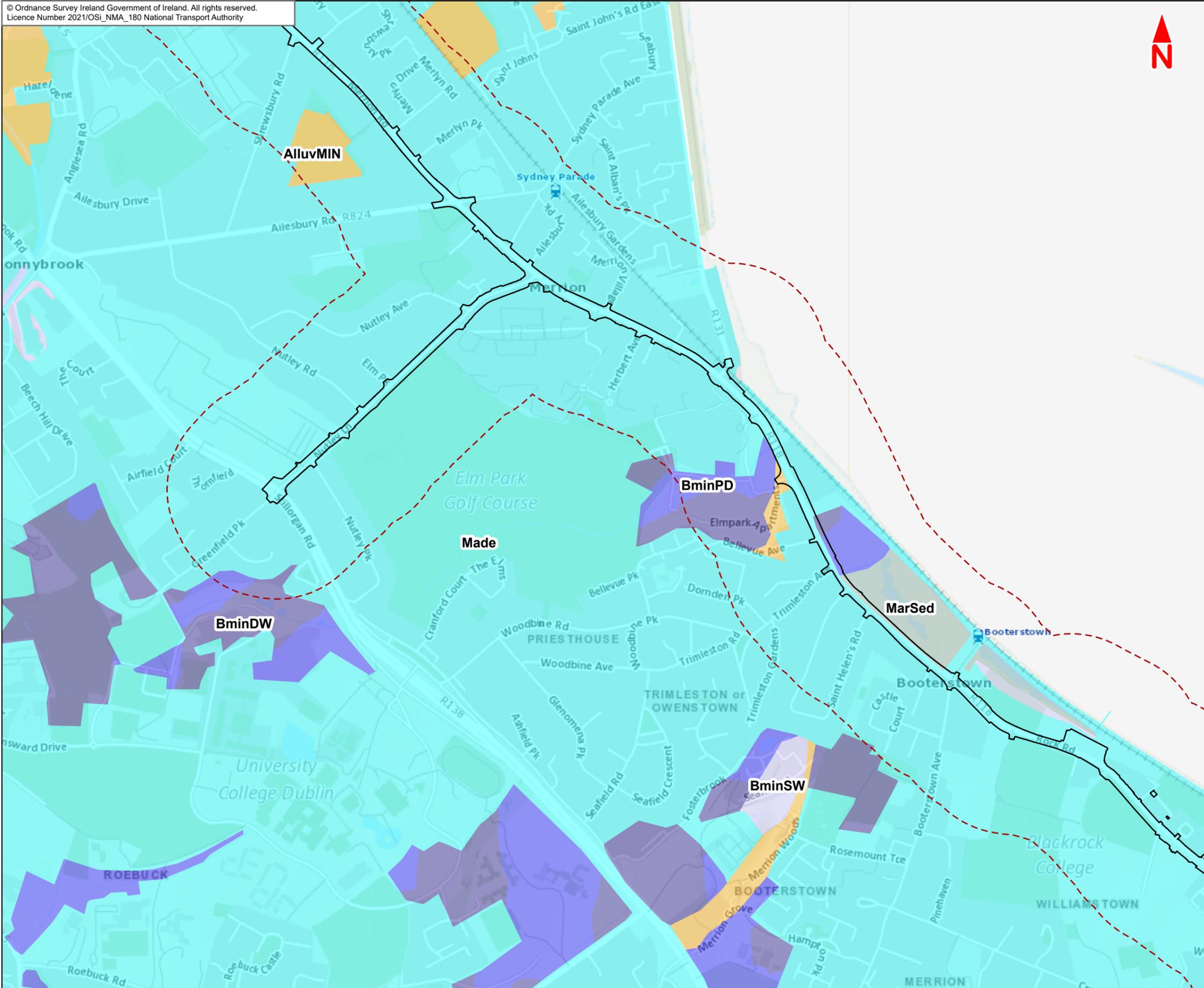
Consultant
JACOBS
ARUP SYSTRA

Date: 02/02/2022
Scale @ A3: 1:10,000
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 Belfield / Blackrock to City Centre Core Bus Corridor Scheme Figure 14.8 Soil Deposits			
Drawing File Name BCIDE-JAC-ENV_GT-1415_XX_00-DR-GG-0201	Sheet Number 1 of 3	Status A	Rev M01



- Legend :**
- Belfield / Blackrock to City Centre Scheme
 - 250m Study Area
 - Teagasc Soils**
 - AlluvMIN - Mineral alluvium
 - BminDW - Grey Brown Podzolics / Brown Earths Basic
 - BminPD - Surface water Gleys / Ground water Gleys Basic
 - BminSW - Renzinas / Lithosols
 - Made
 - MarSed

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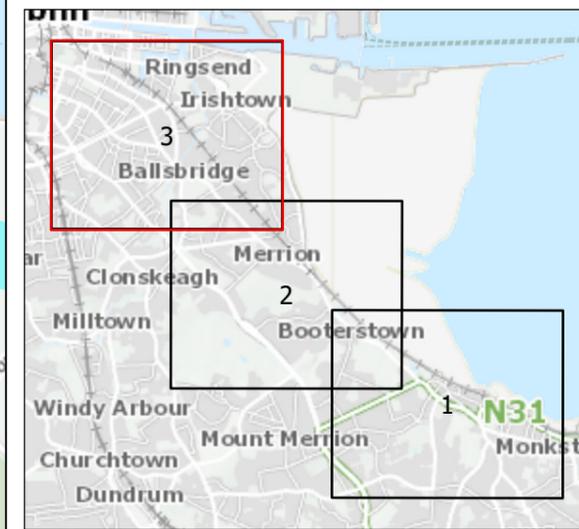
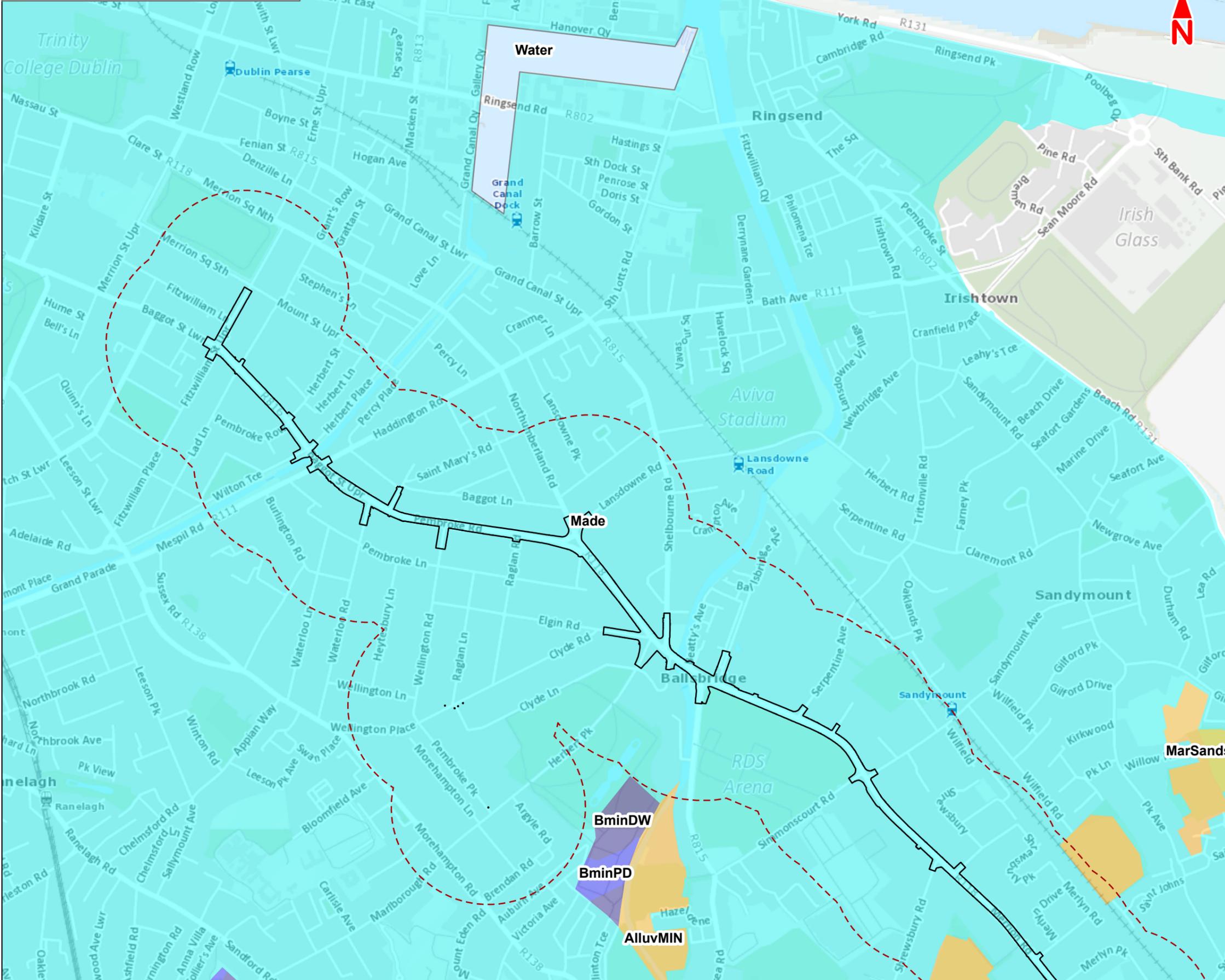
Rev	Date	Drn	Chk'd	App'd	Description
M01	Feb 22	FG	PW	DK	ISSUE FOR PHASE 4 : PLANNING

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

Consultant: **JACOBS ARUP SYSTRA**

Date: 02/02/2022 | Scale @ A3: 1:10,000
 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: Belfield / Blackrock to City Centre Core Bus Corridor Scheme Figure 14.8 Soil Deposits			
Drawing File Name: BCIDE-JAC-ENV_GT-1415_XX_00-DR-GG-0202	Sheet Number: 2 of 3	Status: A	Rev: M01



- Legend :**
- Belfield / Blackrock to City Centre Scheme
 - 250m Study Area
 - Teagasc Soils**
 - AlluvMIN - Mineral alluvium
 - BminDW - Grey Brown Podzolics / Brown Earths Basic
 - BminPD - Surface water Gleys / Ground water Gleys Basic
 - Made
 - MarSands
 - Water

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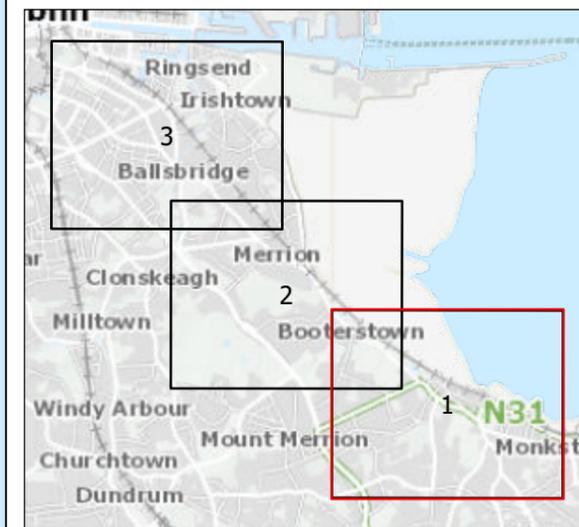
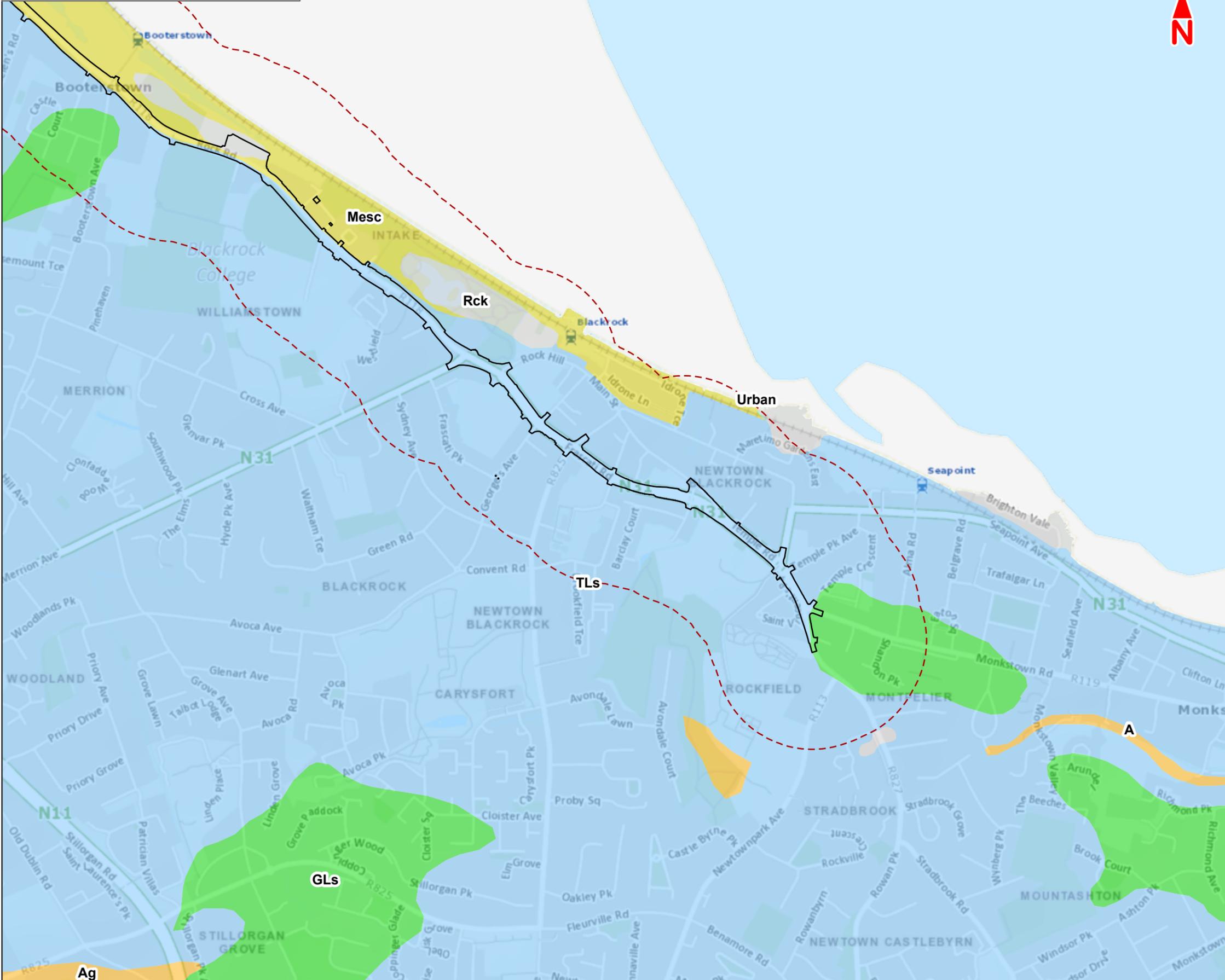
Client

Consultant

Programme Title					BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS				
Drawing Title					Belfield / Blackrock to City Centre Core Bus Corridor Scheme Figure 14.8 Soil Deposits				
Date	02/02/2022	Scale @ A3	1:10,000	Drawn	FG	Checked	PW	Approved	DK
Project Code	BCIDE	Originator Code	JAC	QMS Code					
Drawing File Name	BCIDE-JAC-ENV_GT-1415_XX_00-DR-GG-0203	Sheet Number	3 of 3	Status	A	Rev	M01		

14.9 Subsoil Deposits





- Legend :**
- Belfield / Blackrock to City Centre Scheme
 - 250m Study Area
 - 250m Study Area Quaternary Sediments - 1:50,000
 - A, Alluvium
 - Ag, Alluvium (gravelly)
 - GLs, Gravels derived from Limestones
 - Rck, Bedrock outcrop or subcrop
 - Mesc, Estuarine silts and clays
 - TLs, Till derived from limestones
 - Urban

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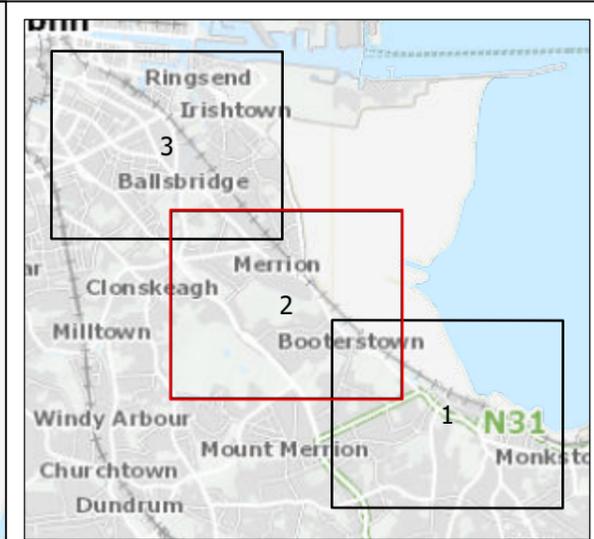
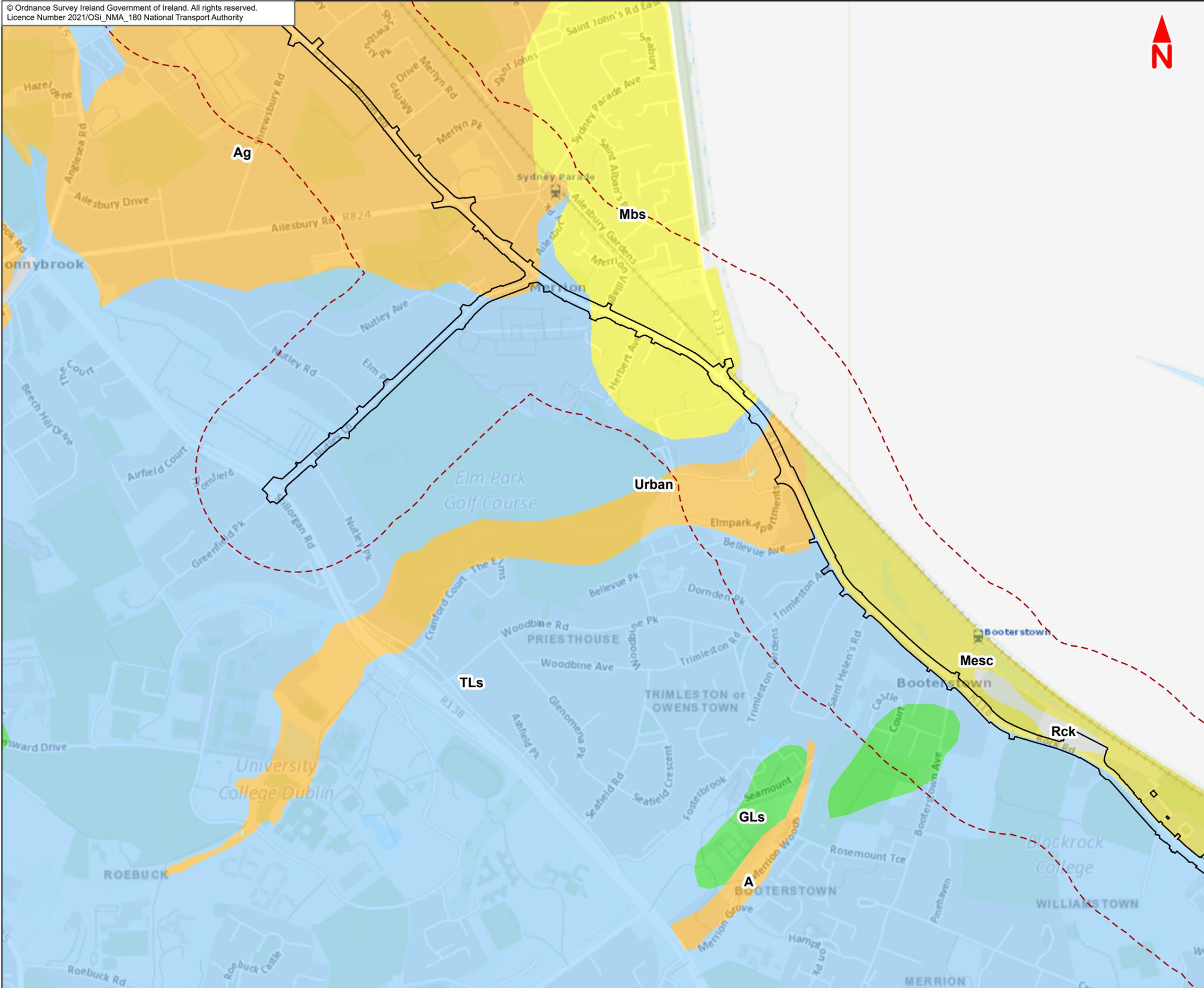
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 Udarás Náisiúnta Iompair National Transport Authority		Client		
 Consultant		Date	Scale @ A3	Drawn
Date 02/02/2022		Scale @ A3 1:10,000	Drawn FG	Checked PW
Project Code BCIDE		Originator Code JAC	QMS Code	Approved DK

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS				
Drawing Title Belfield / Blackrock to City Centre Core Bus Corridor Scheme Figure 14.9 Subsoil Deposits				
Drawing File Name	Sheet Number	Status	Rev	
BCIDE-JAC-ENV_GT-1415_XX_00-DR-GG-0301	1 of 3	A	M01	



- Legend :**
- Belfield / Blackrock to City Centre Scheme
 - 250m Study Area
 - 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
 - Mesc, Esturine silts and clays
 - TLs, Till derived from limestones
 - Urban

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

Consultant: **JACOBS ARUP SYSTRA**

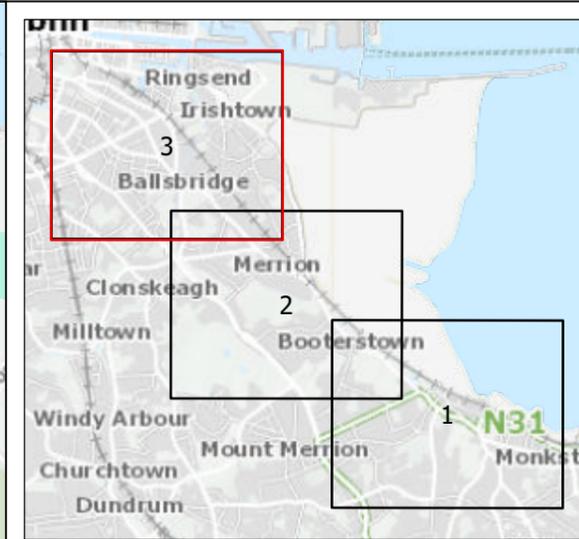
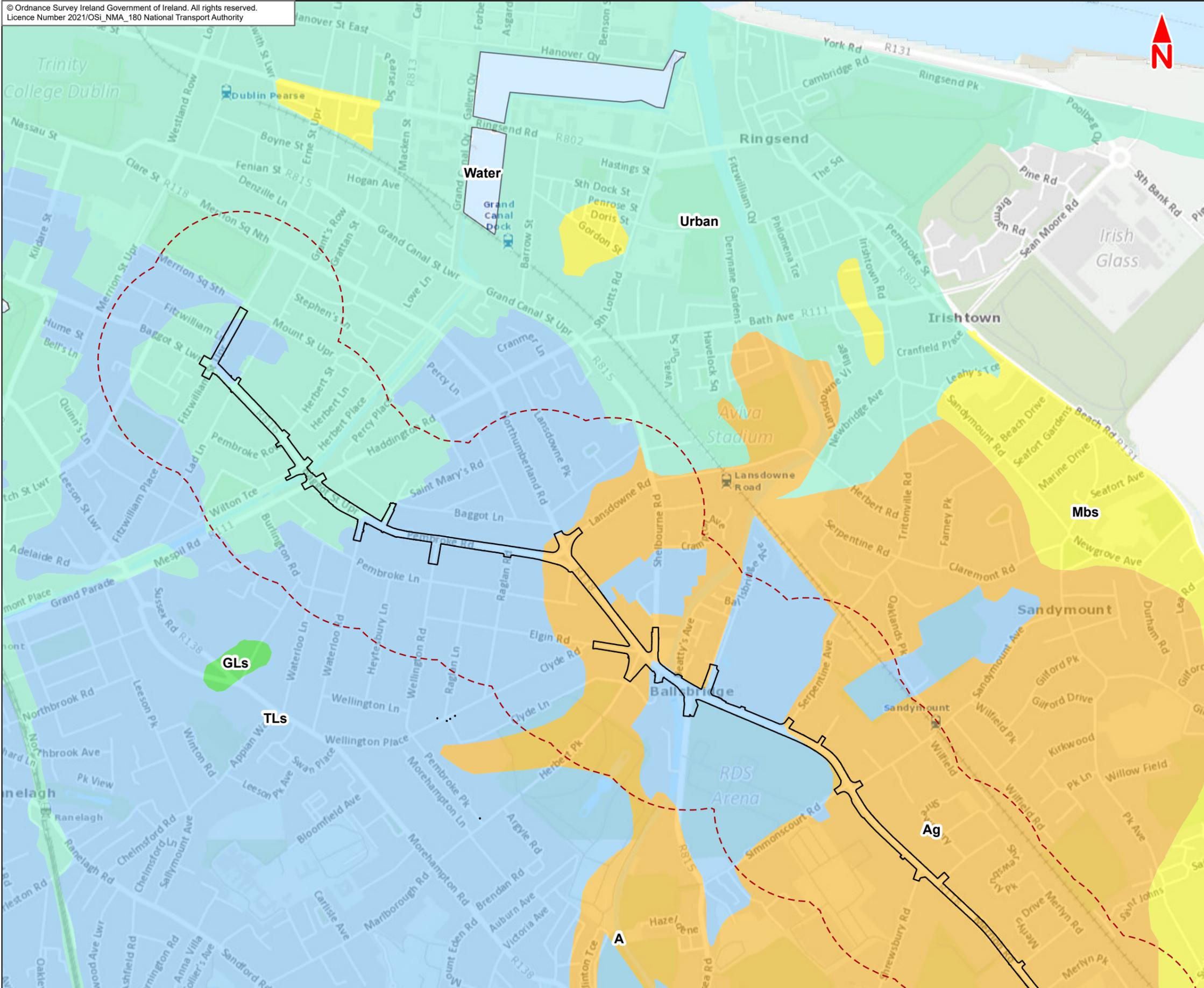
Date: 02/02/2022 | Scale @ A3: 1:10,000

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: Belfield / Blackrock to City Centre Core Bus Corridor Scheme			
Figure 14.9			
Subsoil Deposits			
Drawing File Name: BCIDE-JAC-ENV_GT-1415_XX_00-DR-GG-0302	Sheet Number: 2 of 3	Status: A	Rev: M01



- Legend :**
- Belfield / Blackrock to City Centre Scheme
 - 250m Study Area
 - 250m Study Area
 - Quaternary Sediments - 1:50,000**
 - A, Alluvium
 - Ag, Alluvium (gravelly)
 - GLs, Gravels derived from Limestones
 - Mbs, Marine beach sands
 - TLs, Till derived from limestones
 - Urban
 - Water

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Building Ireland's Future

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Udarás Náisiúnta Iompair
National Transport Authority

Consultant: **JACOBS ARUP SYSTRA**

Date: 02/02/2022 Scale @ A3: 1:10,000
 Drawn: FG Checked: PW Approved: DK
 Project Code: BCIDE Originator Code: JAC QMS Code:

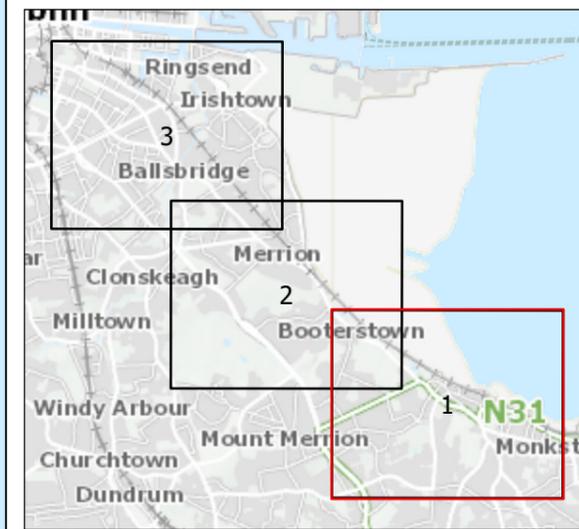
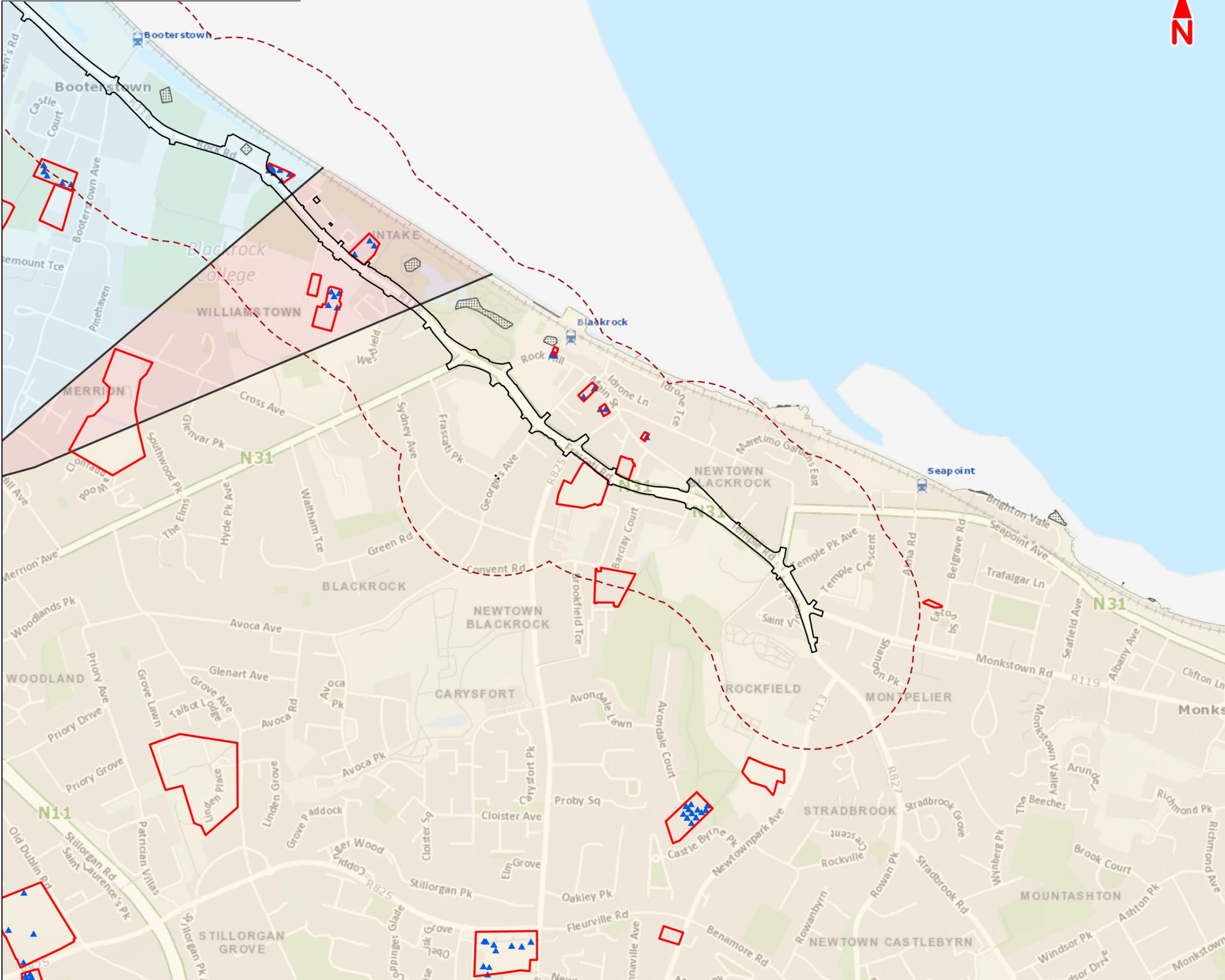
Programme Title: **BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS**

Drawing Title: Belfield / Blackrock to City Centre Core Bus Corridor Scheme
Figure 14.9
Subsoil Deposits

Drawing File Name: BCIDE-JAC-ENV_GT-1415_XX_00-DR-GG-0303 Sheet Number: 3 of 3 Status: A Rev: M01

14.10
Bedrock Geology





Legend :

- Belfield / Blackrock to City Centre Core Bus Corridor Scheme
- 250m Study Area
- GSI Geotechnical Sites
- Geological Heritage Site
- GSI Geotechnical Boreholes
- Fault
- GSI Bedrock Outcrop - 1:100,000**
- GSI Bedrock Outcrop - 1:100,000
- GSI Bedrock Geology - 1:100,000**
- Lucan Formation
- Ballysteen Formation
- Type 2p microcline porphyritic

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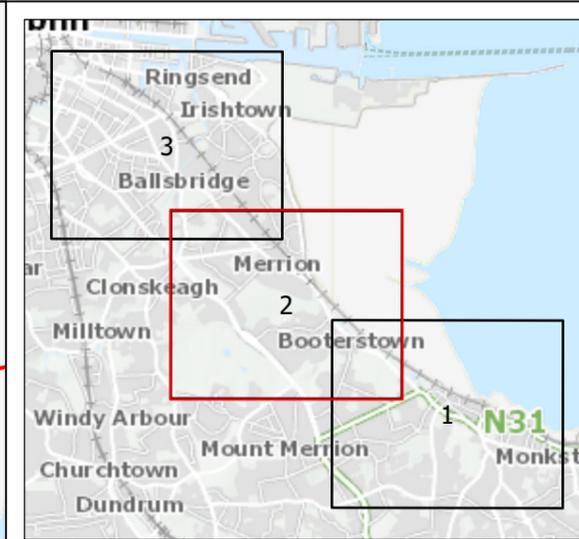
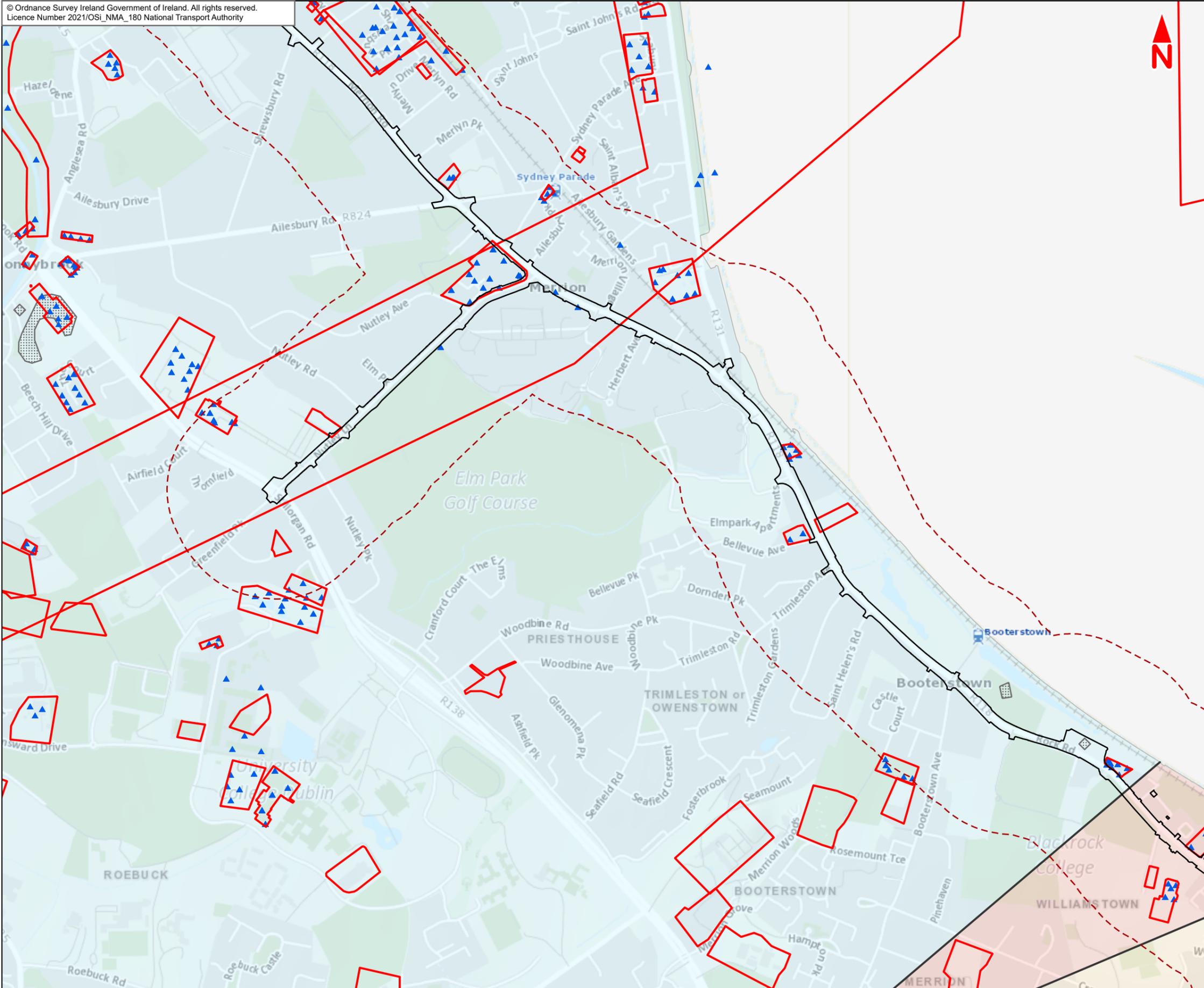
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M01	Feb 22	FG	PW	DK	ISSUE FOR PHASE 4 : PLANNING

Client NTA Udarás Náisiúnta Iompair National Transport Authority		Consultant JACOBS ARUP SYSTRA		
Date 03/02/2022	Scale @ A3 1:10,000	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 Belfield / Blackrock to City Centre Core Bus Corridor Scheme Figure 14.10 Bedrock Geology				
Drawing File Name BCIDE-JAC-ENV_GT-1415_XX_00-DR-GG-0401	Sheet Number 1 of 3	Status A	Rev M01	



- Legend :**
- Belfield / Blackrock to City Centre Core Bus Corridor Scheme
 - 250m Study Area
 - GSI Geotechnical Sites
 - GSI Geotechnical Boreholes
 - Fault
 - GSI Bedrock Outcrop - 1:100,000**
 - GSI Bedrock Outcrop - 1:100,000
 - GSI Bedrock Geology - 1:100,000**
 - Lucan Formation
 - Ballysteen Formation
 - Type 2p microcline porphyritic

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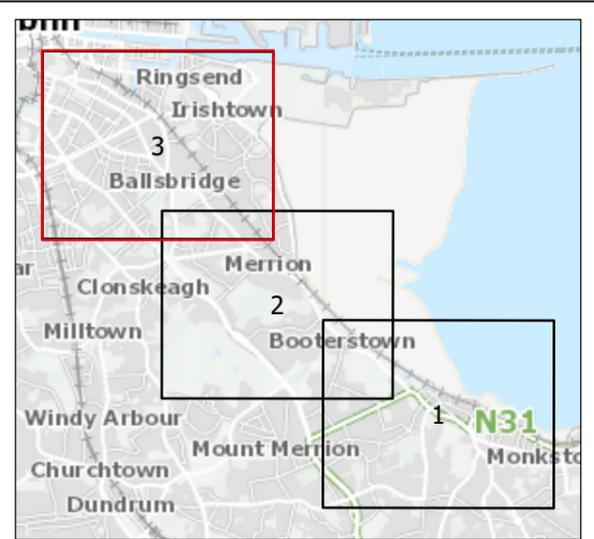
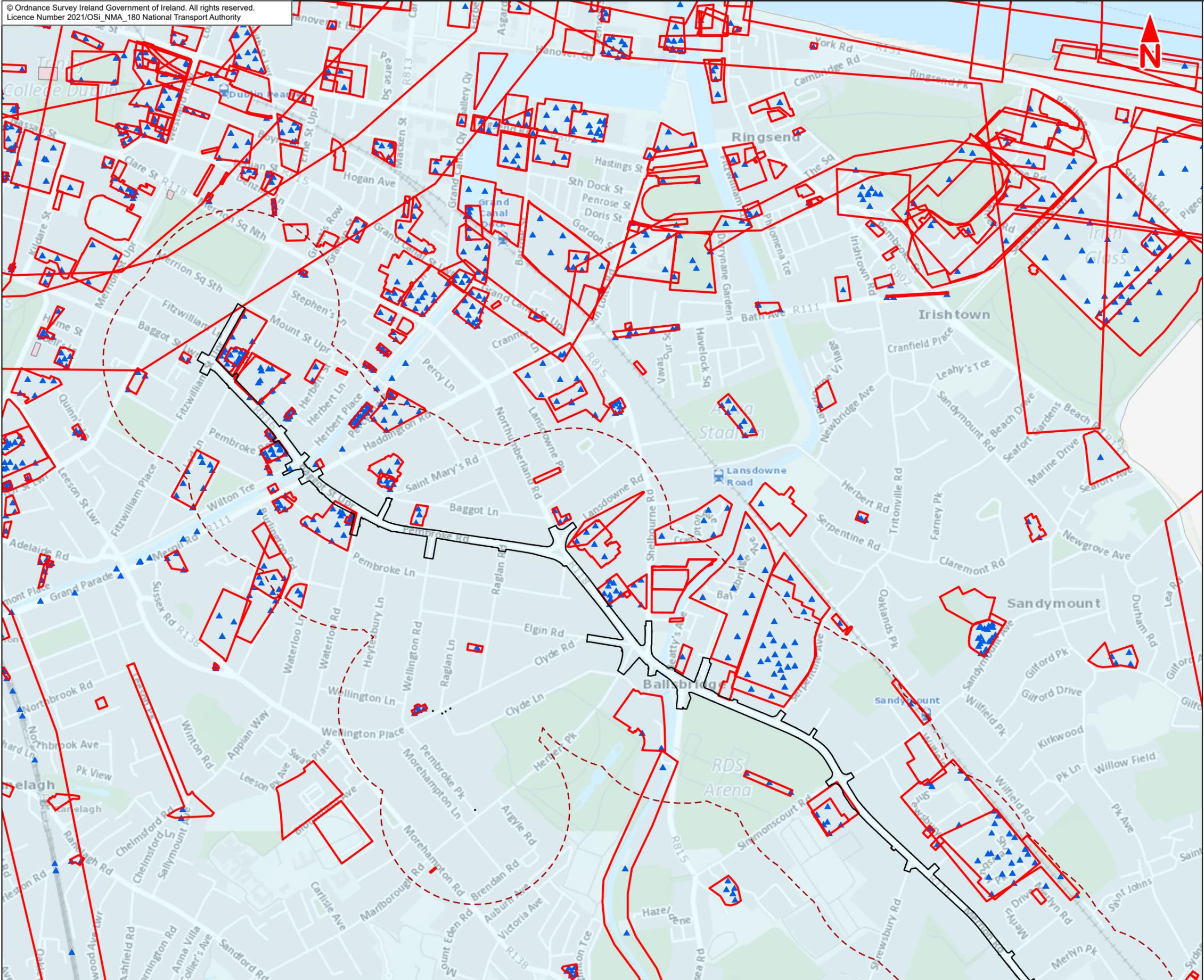
Rev	Date	Drn	Chk'd	App'd	Description
M01	Feb 22	FG	PW	DK	ISSUE FOR PHASE 4 : PLANNING

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

Consultant: **JACOBS ARUP SYSTRA**

Date: 03/02/2022 | Scale @ A3: 1:10,000
 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: Belfield / Blackrock to City Centre Core Bus Corridor Scheme Figure 14.10 Bedrock Geology				
Drawing File Name: BCIDE-JAC-ENV_GT-1415_XX_00-DR-GG-0402	Sheet Number: 2 of 3	Status: A	Rev: M01	



- Legend :**
- Belfield / Blackrock 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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Client
NTA
Udárás Náisiúnta Iompair
National Transport Authority

Date: 03/02/2022
Scale @ A3: 1:10,000

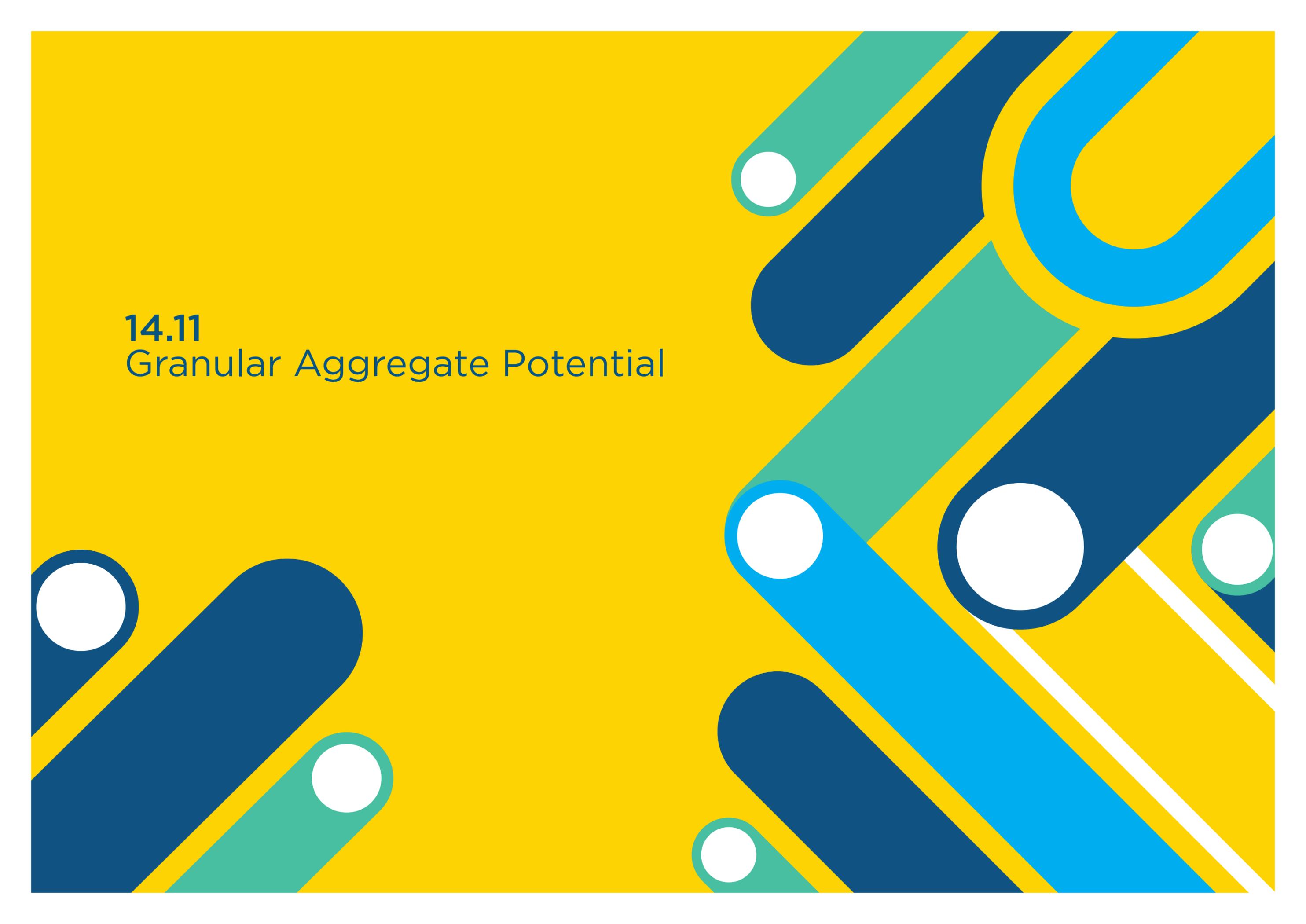
Project Code: BCIDE
Originator Code: JAC

Consultant
JACOBS ARUP SYSTRA

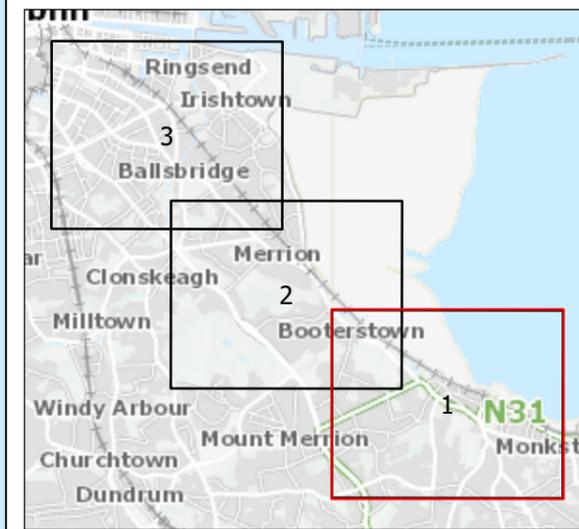
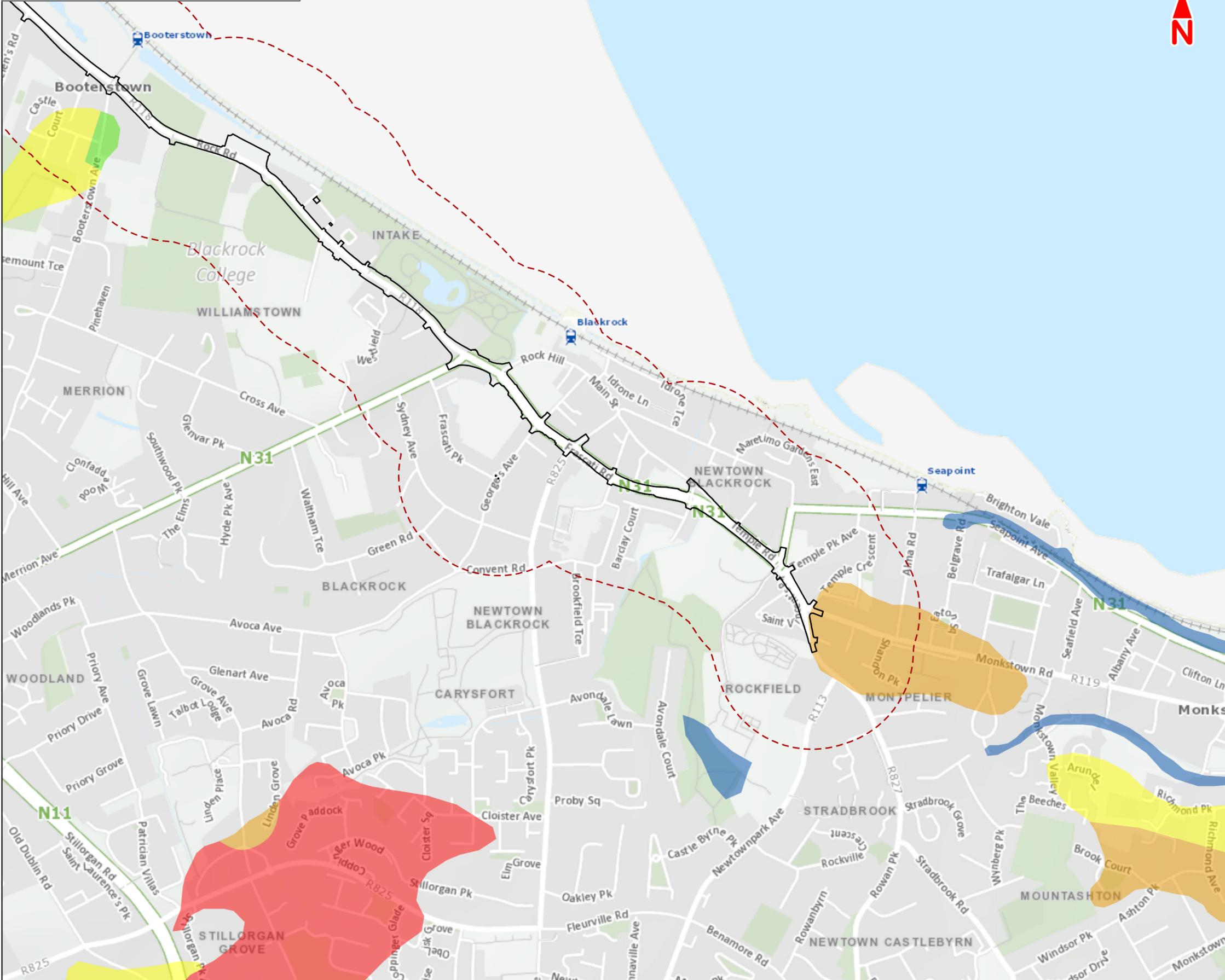
Drawn: FG
Checked: PW
Approved: DK

QMS Code

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title Belfield / Blackrock to City Centre Core Bus Corridor Scheme Figure 14.10 Bedrock Geology			
Drawing File Name BCIDE-JAC-ENV_GT-1415_XX_00-DR-GG-0403	Sheet Number 3 of 3	Status A	Rev M01



14.11
Granular Aggregate Potential



Legend :

- Belfield / Blackrock to City Centre Scheme
- 250m Study Area
- 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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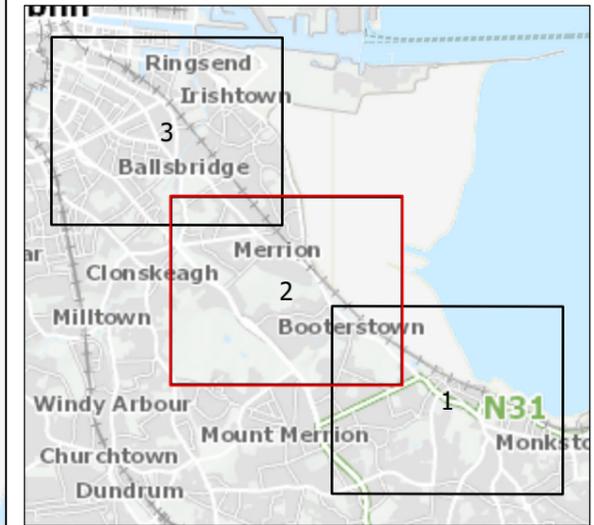
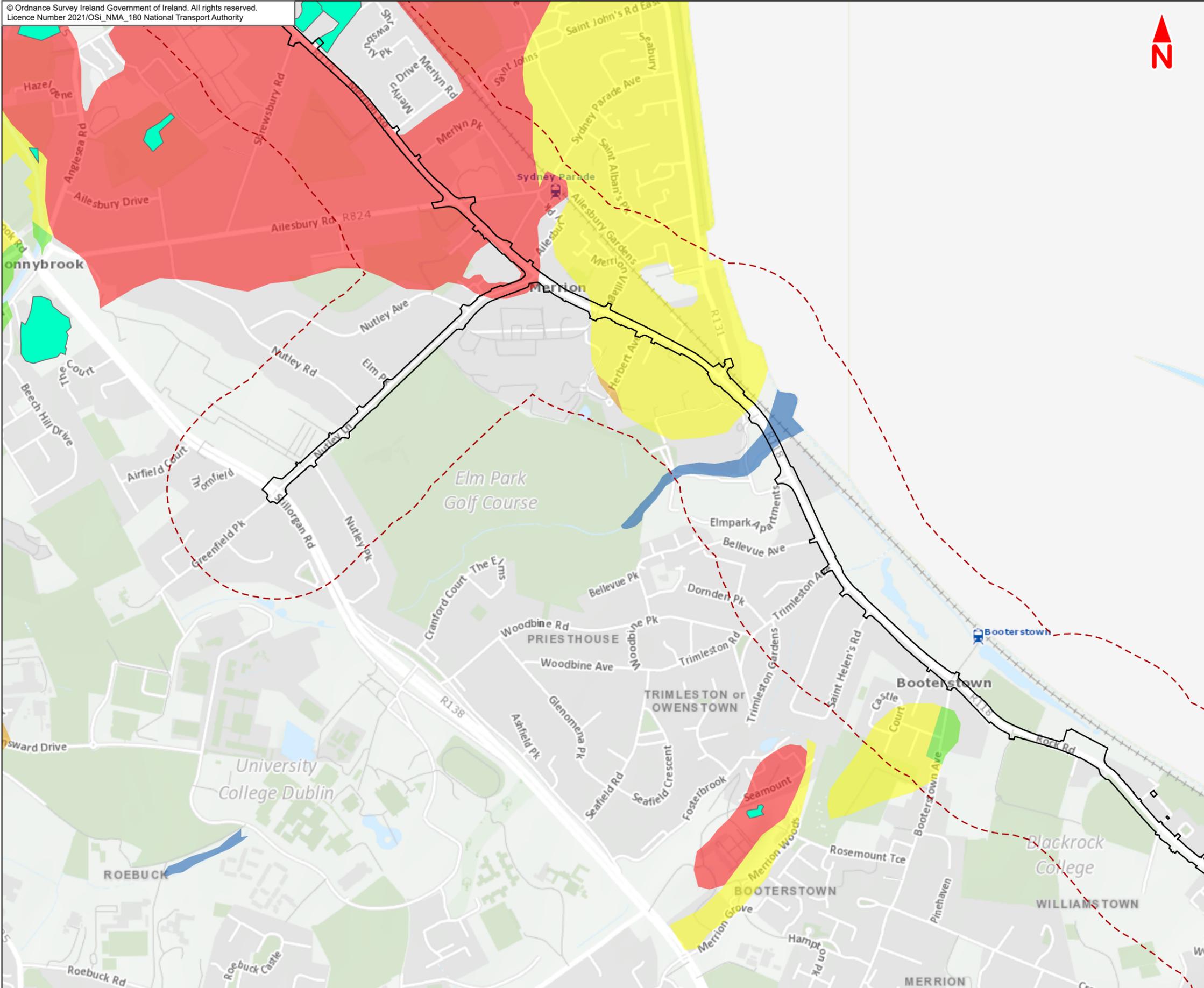
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Client NTA Udarás Náisiúnta Iompair National Transport Authority		Consultant JACOBS ARUP SYSTRA		
Date 02/02/2022	Scale @ A3 1:10,000	Drawn FG	Checked PW	Approved DK
Project Code BCIDE	Originator Code JAC	QMS Code		

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS				
Drawing Title Belfield / Blackrock to City Centre Core Bus Corridor Scheme Figure 14.11 Granular Aggregate Potential				
Drawing File Name BCIDE-JAC-ENV_GT-1415_XX_00-DR-GG-0501	Sheet Number 1 of 3	Status A	Rev M01	



- Legend :**
- Belfield / Blackrock to City Centre Scheme
 - 250m Study Area
 - 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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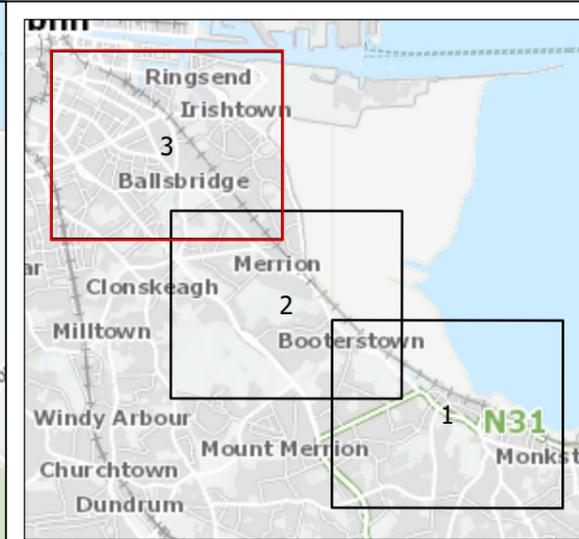
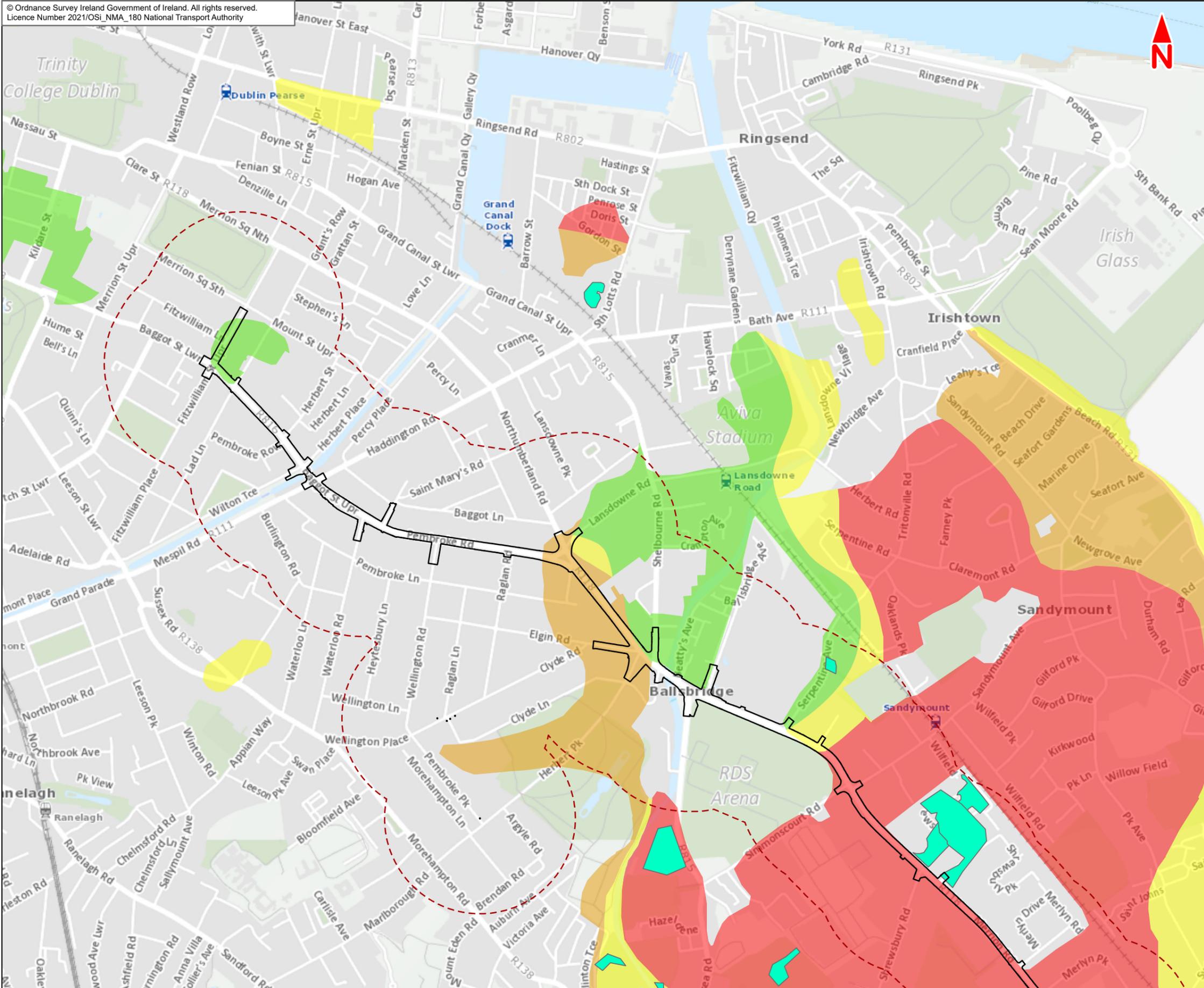
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Client NTA Udarás Náisiúnta Iompair National Transport Authority		Consultant JACOBS ARUP SYSTRA		
Date 02/02/2022	Scale @ A3 1:10,000	Drawn FG	Checked PW	Approved DK
Project Code BCIDE	Originator Code JAC	QMS Code		

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS				
Drawing Title Belfield / Blackrock to City Centre Core Bus Corridor Scheme Figure 14.11 Granular Aggregate Potential				
Drawing File Name BCIDE-JAC-ENV_GT-1415_XX_00-DR-GG-0502	Sheet Number 2 of 3	Status A	Rev M01	



- Legend :**
- Belfield / Blackrock to City Centre Scheme
 - 250m Study Area
 - Pits and Quarries Areas
 - GSI Aggregate Potential Mapping - Granular Aggregate Potential**
 - Very high potential
 - High potential
 - Moderate potential
 - Low potential

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Udarás Náisiúnta Iompair
National Transport Authority

Consultant: **JACOBS ARUP SYSTRA**

Date: 02/02/2022 | Scale @ A3: 1:10,000

Project Code: BCIDE | Originator Code: JAC

Drawn: FG | Checked: PW | Approved: DK

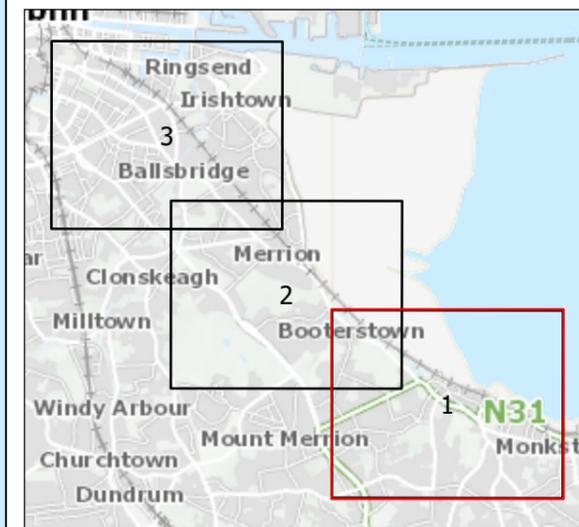
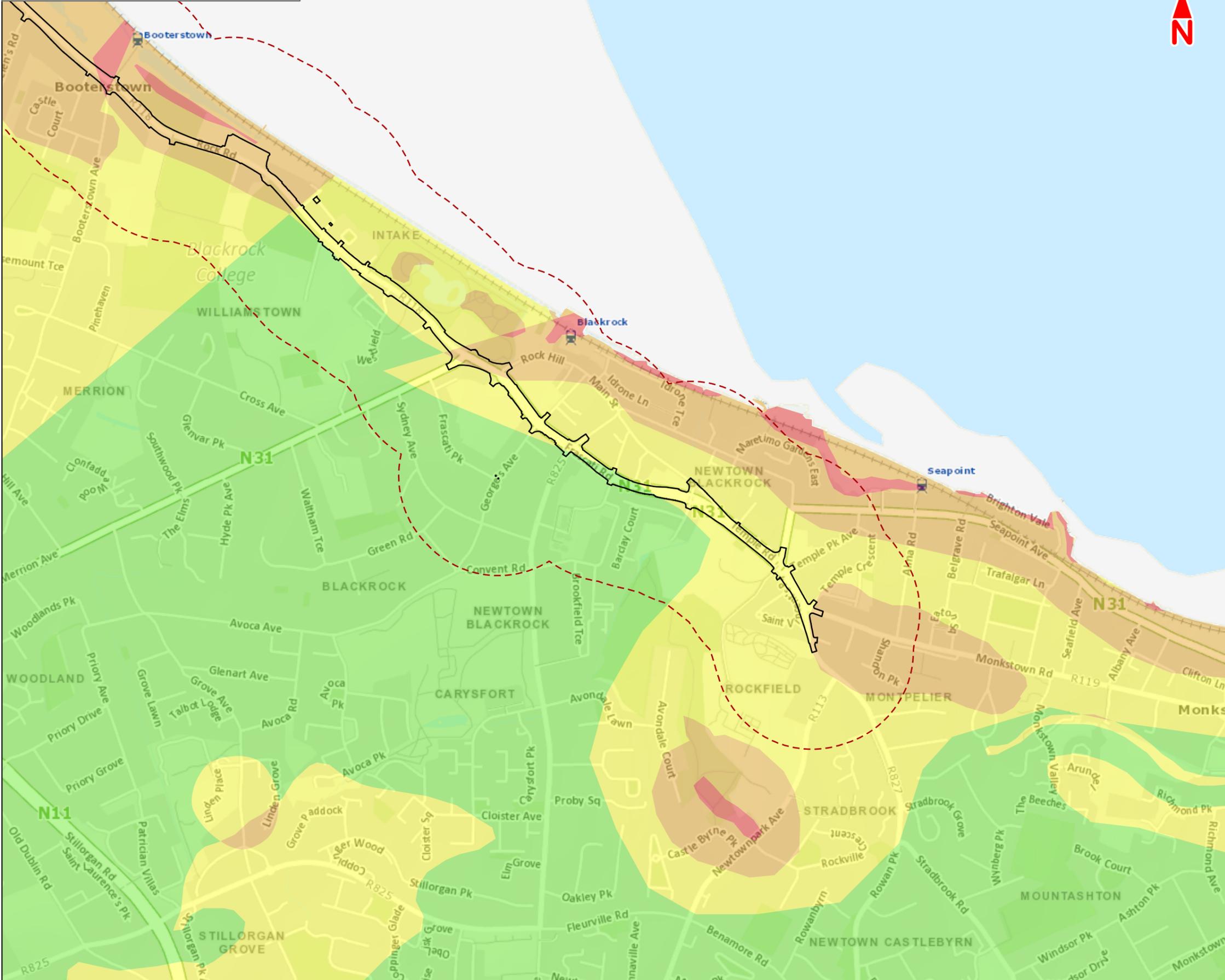
Programme Title: **BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS**

Drawing Title: **Belfield / Blackrock to City Centre Core Bus Corridor Scheme Figure 14.11 Granular Aggregate Potential**

Drawing File Name: BCIDE-JAC-ENV_GT-1415_XX_00-DR-GG-0503 | Sheet Number: 3 of 3 | Status: A | Rev: M01

14.12
Crushed Rock
Aggregate Potential





Legend :

- Belfield / Blackrock to City Centre Scheme
- 250m Study Area
- GSI Aggregate Potential Mapping - Crushed Rock Aggregate Potential**
- Very high potential
- High potential
- Moderate potential
- Low potential

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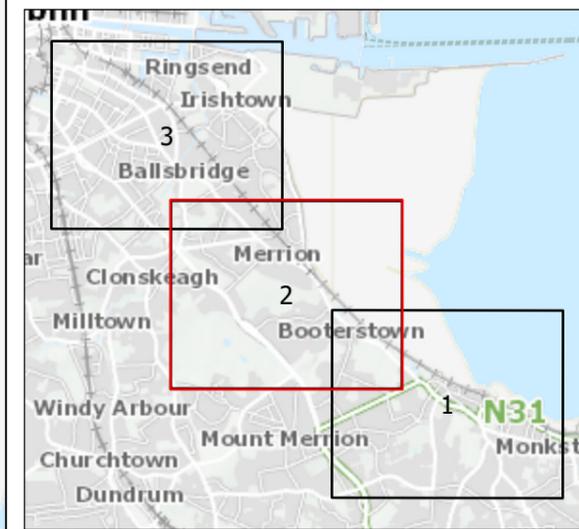
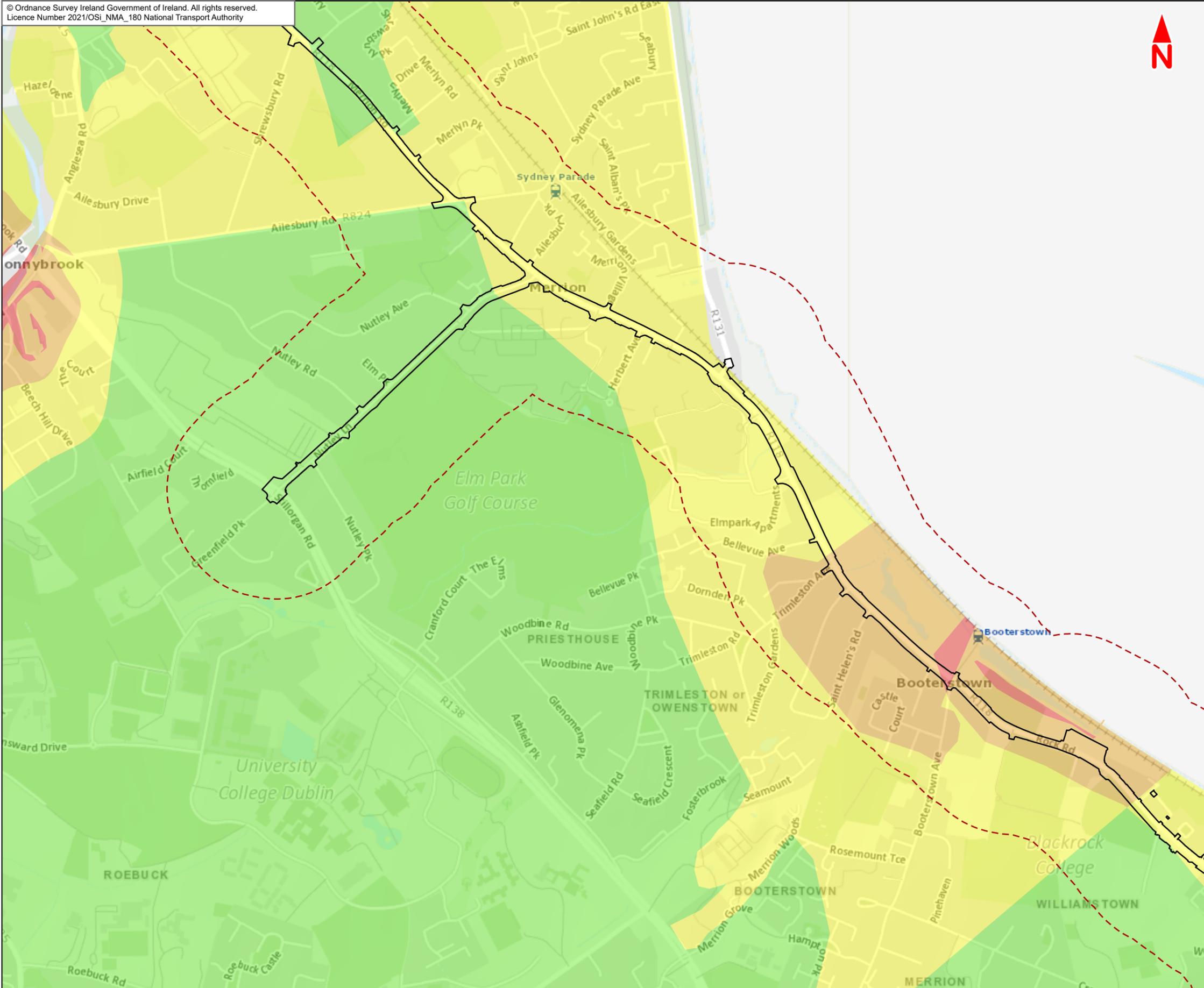
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Date 02/02/2022	Scale @ A3 1:10,000	Drawn FG	Checked PW	Approved DK
Project Code BCIDE	Originator Code JAC	QMS Code		

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS				
Drawing Title Belfield / Blackrock to City Centre Core Bus Corridor Scheme Figure 14.12 Crushed Rock Aggregate Potential				
Drawing File Name BCIDE-JAC-ENV_GT-1415_XX_00-DR-GG-0601	Sheet Number 1 of 3	Status A	Rev M01	



Legend :

- Belfield / Blackrock to City Centre Scheme
- 250m Study Area
- GSI Aggregate Potential Mapping - Crushed Rock Aggregate Potential**
- Very high potential
- High potential
- Moderate potential
- Low potential

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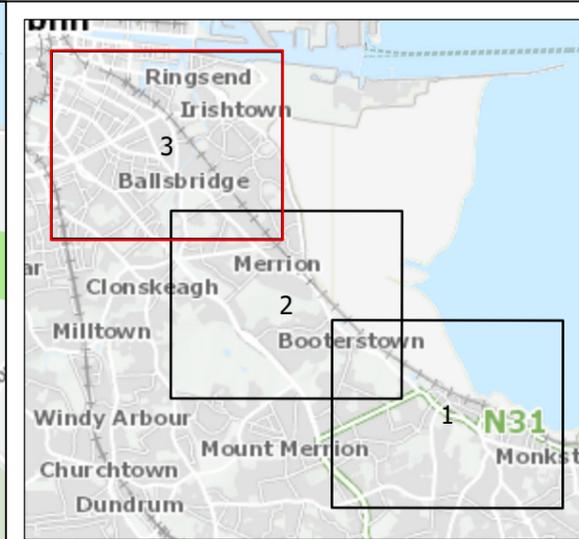
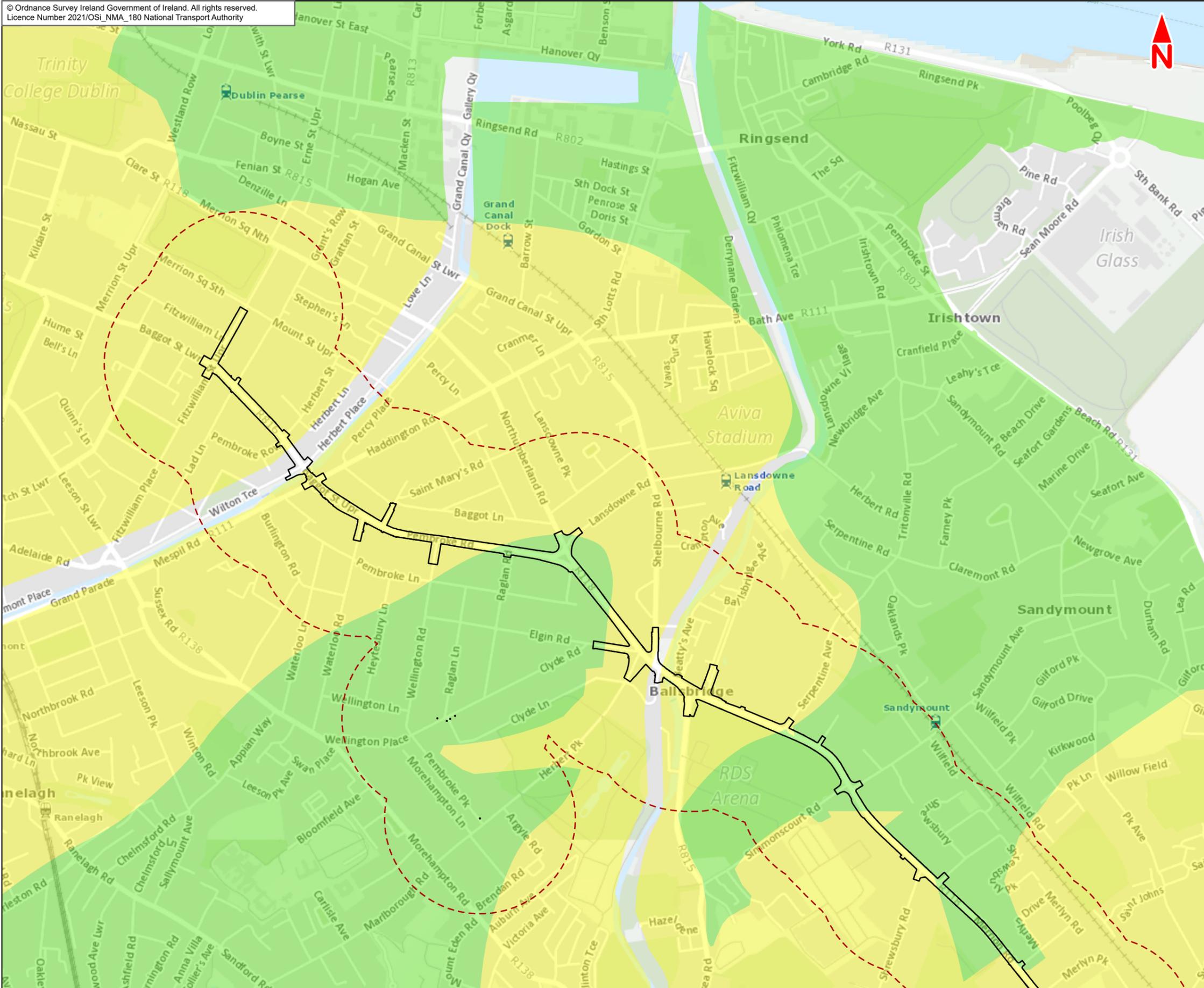
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Project Code BCIDE	Originator Code JAC	QMS Code		

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS				
Drawing Title Belfield / Blackrock to City Centre Core Bus Corridor Scheme Figure 14.12 Crushed Rock Aggregate Potential				
Drawing File Name BCIDE-JAC-ENV_GT-1415_XX_00-DR-GG-0602	Sheet Number 2 of 3	Status A	Rev M01	



Legend :

- Belfield / Blackrock to City Centre Scheme
- 250m Study Area
- GSI Aggregate Potential Mapping - Crushed Rock Aggregate Potential**
- Moderate potential
- Low potential

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Rev	Date	Drn	Chk'd	App'd	Description
M01	Feb 22	FG	PW	DK	ISSUE FOR PHASE 4 : PLANNING

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

Consultant: **JACOBS ARUP SYSTRA**

Date: 02/02/2022 | Scale @ A3: 1:10,000
 Drawn: FG | Checked: PW | Approved: DK
 Project Code: BCIDE | Originator Code: JAC

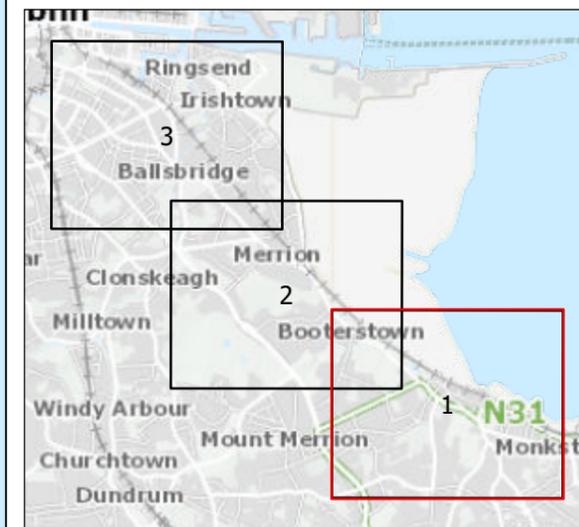
Programme Title: **BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS**

Drawing Title: Belfield / Blackrock to City Centre Core Bus Corridor Scheme
Figure 14.12
Crushed Rock Aggregate Potential

Drawing File Name: BCIDE-JAC-ENV_GT-1415_XX_00-DR-GG-0603 | Sheet Number: 3 of 3 | Status: A | Rev: M01

14.13
Aquifers





Legend :

- Belfield / Blackrock to City Centre 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)
 - Poor Aquifer - Bedrock which is Generally Unproductive except for Local Zones (PI)

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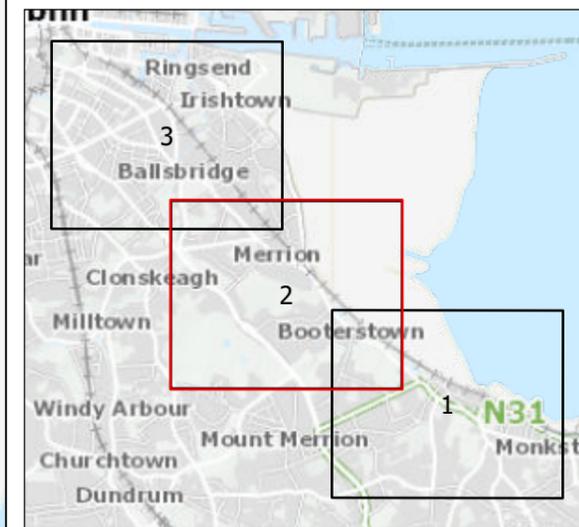
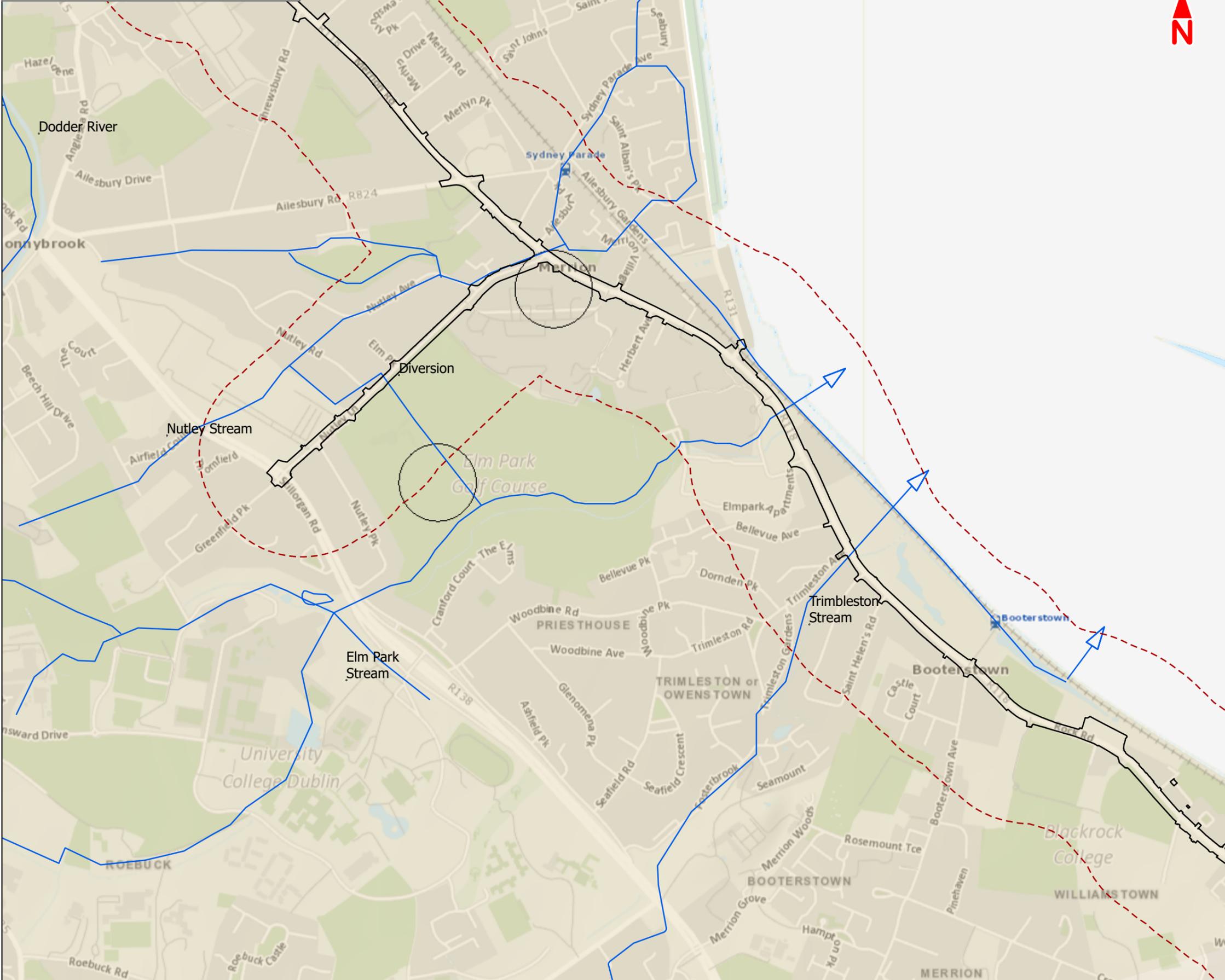
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Date	02/02/2022	Scale @ A3	1:10,000	Drawn	FG
Project Code	BCIDE	Originator Code	JAC	Checked	PW
				Approved	DK
				QMS Code	

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS					
Drawing Title Belfield / Blackrock to City Centre Core Bus Corridor Scheme Figure 14.13 Aquifers					
Drawing File Name	BCIDE-JAC-ENV_GT-1415_XX_00-DR-GG-0701	Sheet Number	1 of 3	Status	A
Rev	M01				



Legend :

- Belfield / Blackrock to City Centre 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)
 - Poor Aquifer - Bedrock which is Generally Unproductive except for Local Zones (PI)

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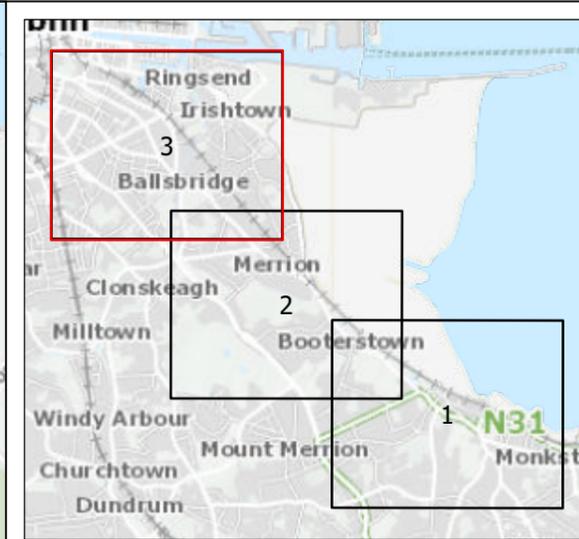
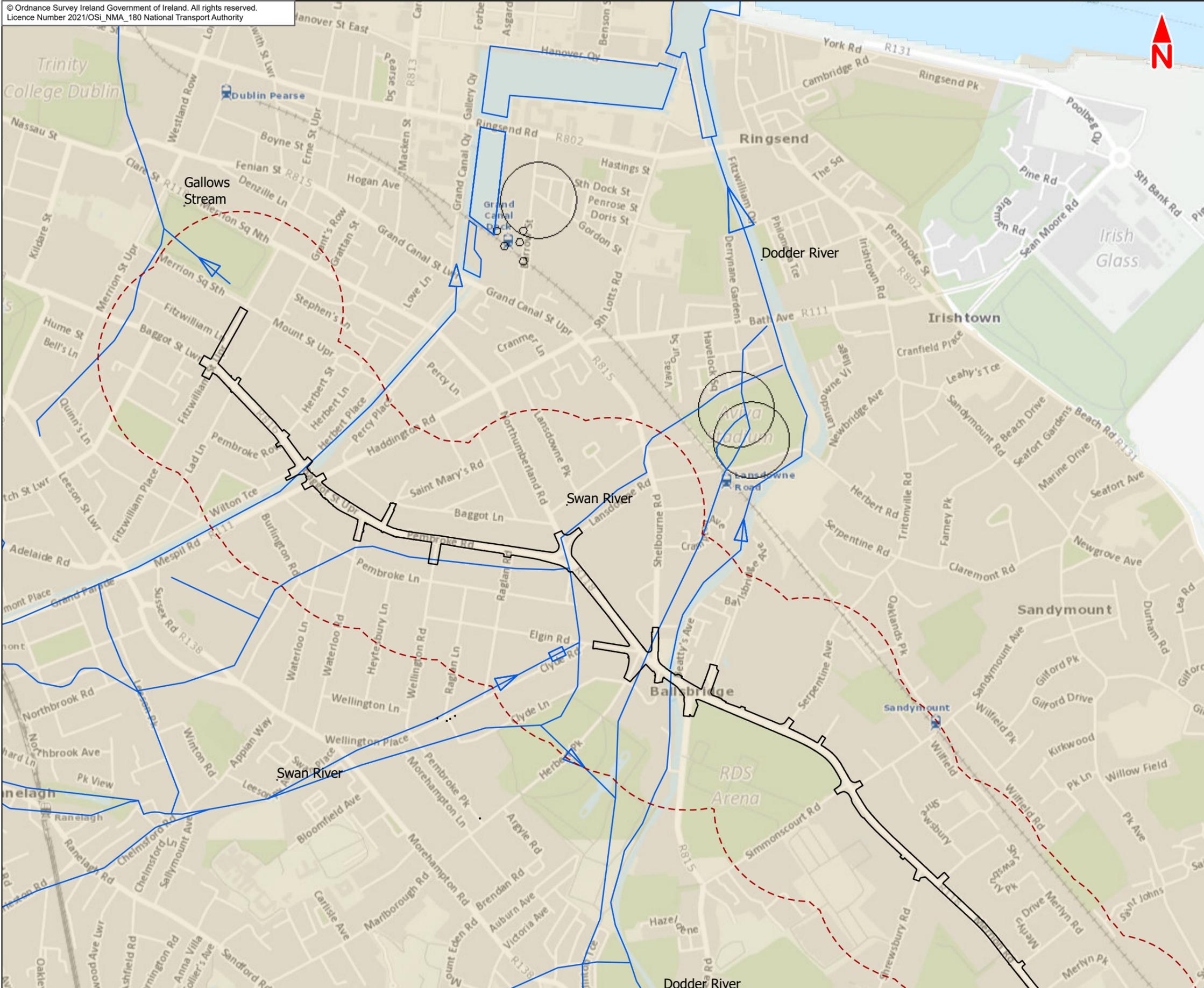
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Date	02/02/2022	Scale @ A3	1:10,000	Drawn	FG
Project Code	BCIDE	Originator Code	JAC	Checked	PW
				Approved	DK

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS					
Drawing Title Belfield / Blackrock to City Centre Core Bus Corridor Scheme Figure 14.13 Aquifers					
Drawing File Name	BCIDE-JAC-ENV_GT-1415_XX_00-DR-GG-0702	Sheet Number	2 of 3	Rev	M01
Status	A				



- Legend :**
- Belfield / Blackrock to City Centre 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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Client: **NTA**
Udarás Náisiúnta Iompair
National Transport Authority

Consultant: **JACOBS ARUP SYSTRA**

Date: 02/02/2022 | Scale @ A3: 1:10,000

Project Code: BCIDE | Originator Code: JAC

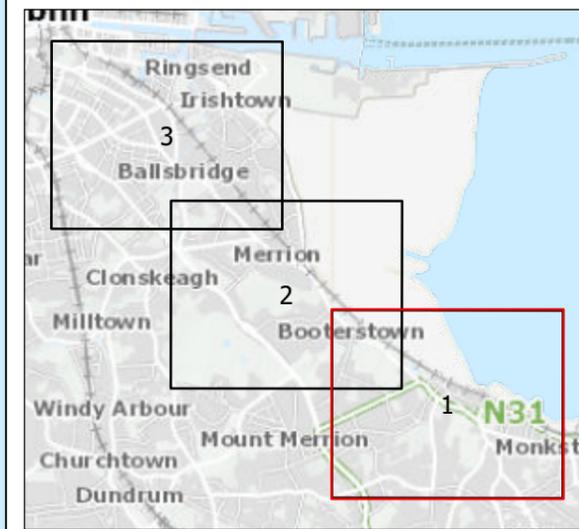
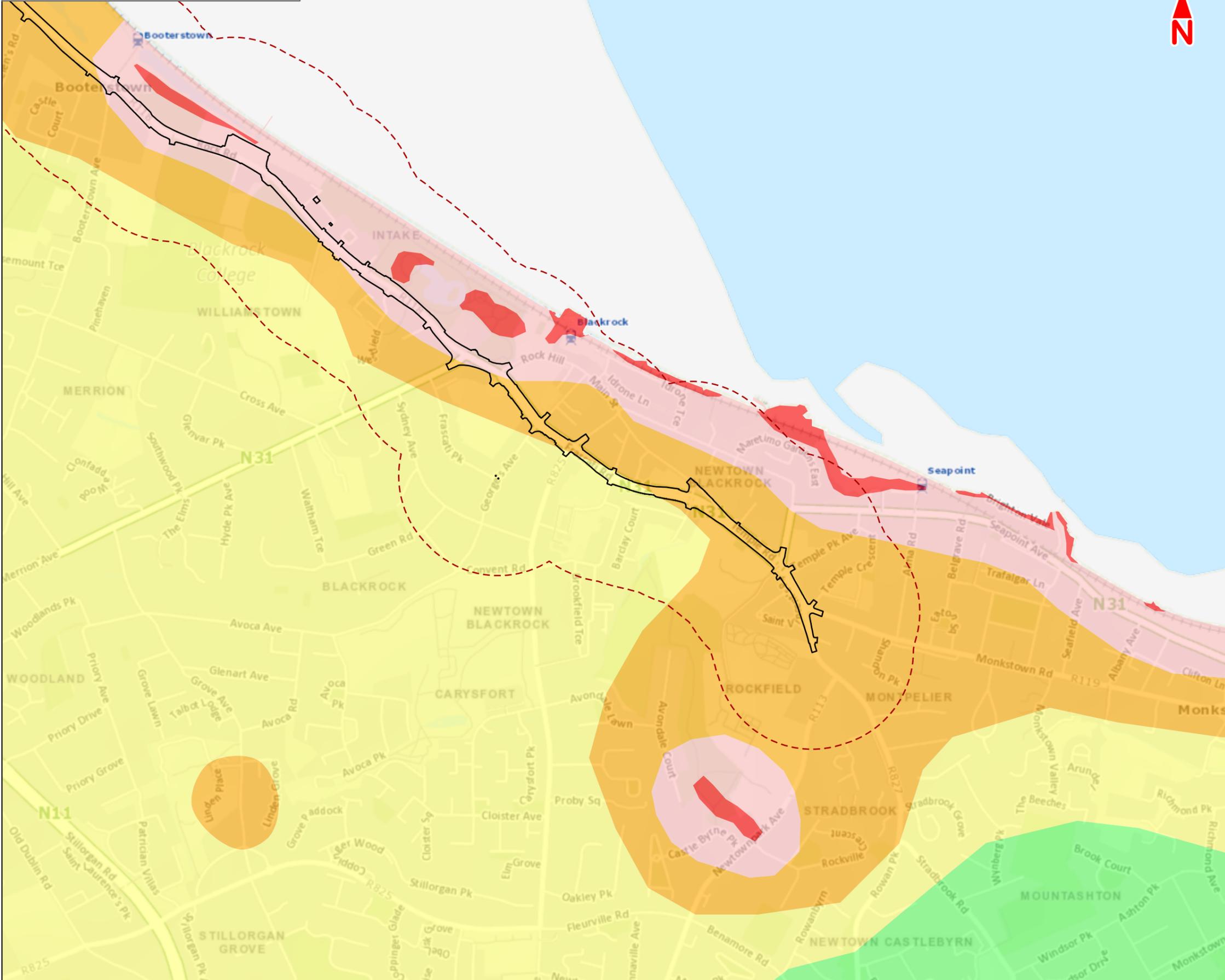
Drawn: FG | Checked: PW | Approved: DK

QMS Code: _____

Programme Title: BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS			
Drawing Title: Belfield / Blackrock to City Centre Core Bus Corridor Scheme Aquifers Figure 14.13			
Drawing File Name: BCIDE-JAC-ENV_GT-1415_XX_00-DR-GG-0703	Sheet Number: 3 of 3	Status: A	Rev: M01

14.14
Groundwater Vulnerability





Legend :

- Belfield / Blackrock to City Centre Scheme
- 250m Study Area
- GSI National Groundwater Vulnerability**
- Extreme (X) Rock at/close to surface or Karst
- Extreme
- High
- Moderate
- Low
- Water

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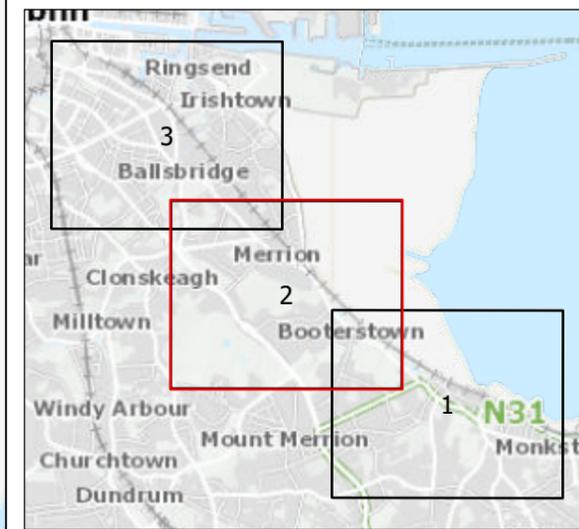
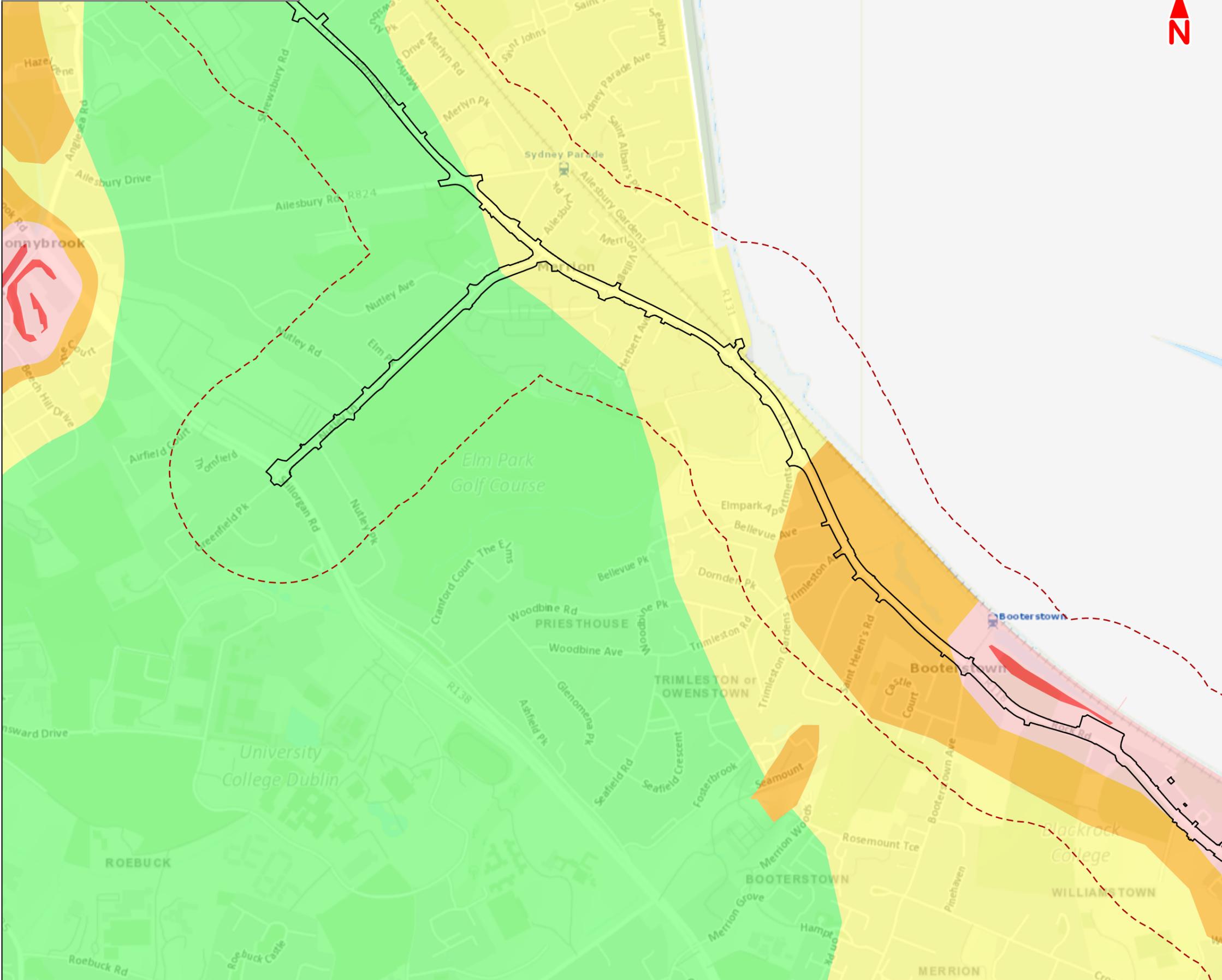
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Client NTA Udarás Náisiúnta Iompair National Transport Authority		Consultant JACOBS ARUP SYSTRA		
Date 02/02/2022	Scale @ A3 1:10,000	Drawn FG	Checked PW	Approved DK
Project Code BCIDE	Originator Code JAC	QMS Code		

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS				
Drawing Title Belfield / Blackrock to City Centre Core Bus Corridor Scheme Figure 14.14 Groundwater Vulnerability				
Drawing File Name BCIDE-JAC-ENV_GT-1415_XX_00-DR-GG-0801	Sheet Number 1 of 3	Status A	Rev M01	



- Legend :**
- Belfield / Blackrock to City Centre Scheme
 - 250m Study Area
 - GSI National Groundwater Vulnerability**
 - Extreme (X) Rock at/close to surface or Karst
 - Extreme
 - High
 - Moderate
 - Low
 - Water

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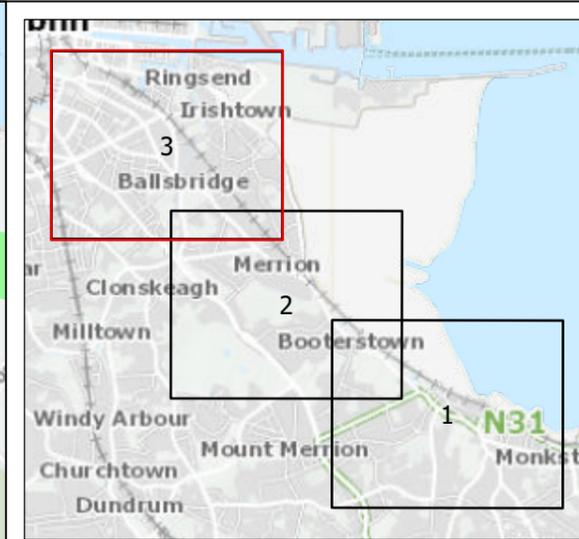
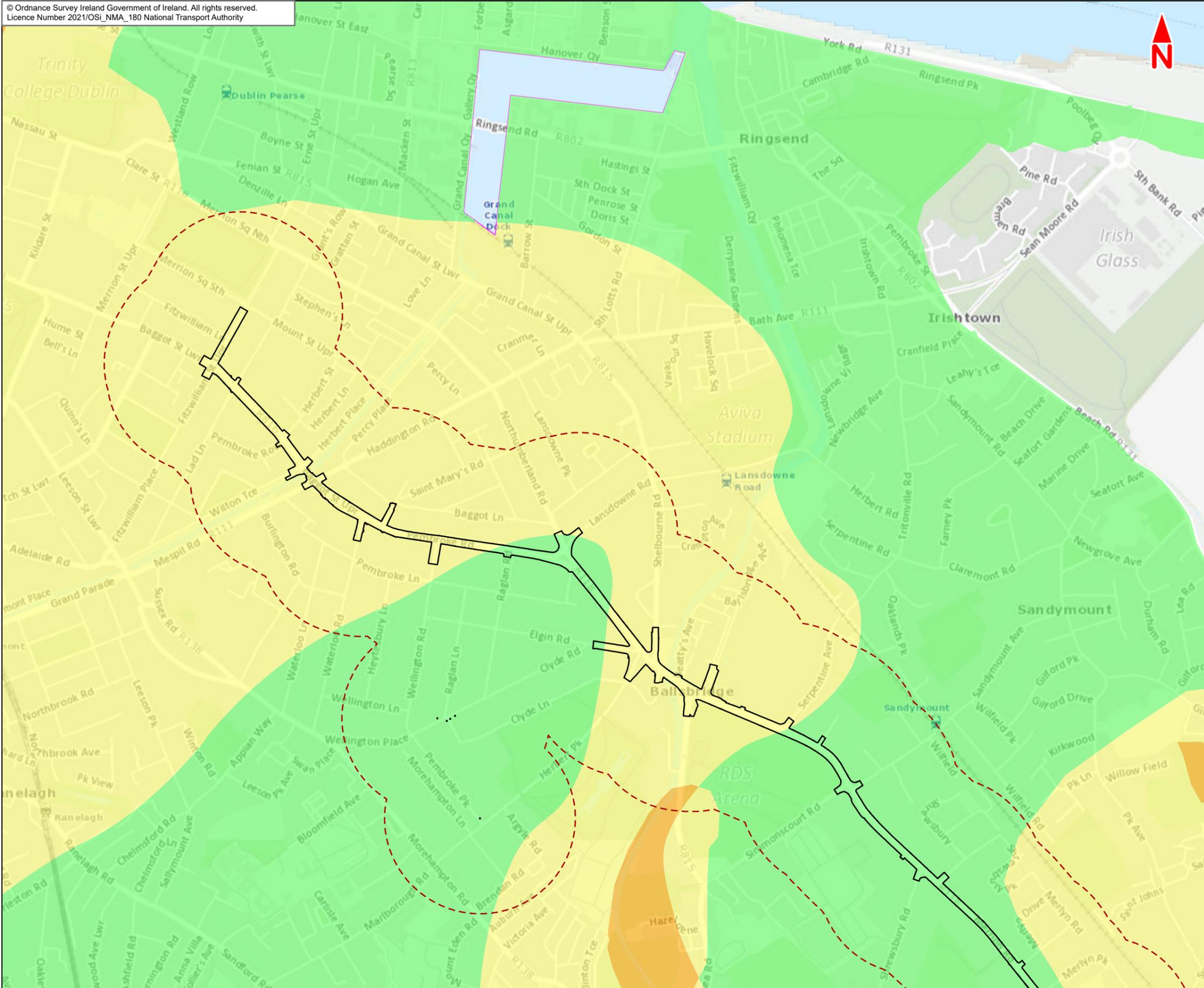
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 Udarás Náisiúnta Iompair National Transport Authority		Consultant 							
Date	02/02/2022	Scale @ A3	1:10,000	Drawn	FG	Checked	PW	Approved	DK
Project Code	BCIDE	Originator Code	JAC	QMS Code					

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS							
Drawing Title Belfield / Blackrock to City Centre Core Bus Corridor Scheme Figure 14.14 Groundwater Vulnerability							
Drawing File Name	BCIDE-JAC-ENV_GT-1415_XX_00-DR-GG-0802	Sheet Number	2 of 3	Status	A	Rev	M01



- Legend :**
- Belfield / Blackrock to City Centre Scheme
 - 250m Study Area
 - GSI National Groundwater Vulnerability**
 - Extreme (X) Rock at/close to surface or Karst
 - Extreme
 - High
 - Moderate
 - Low
 - Water

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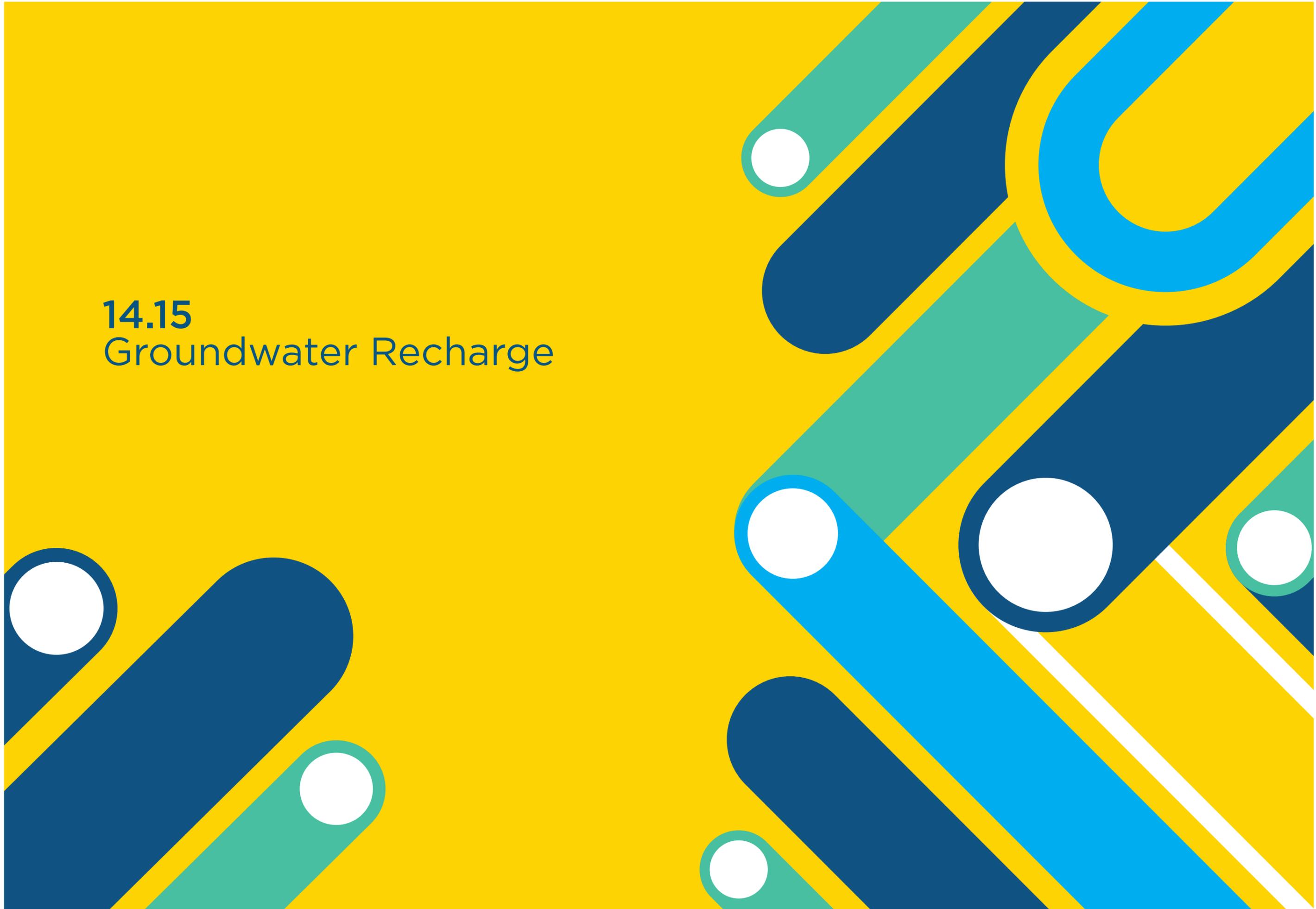
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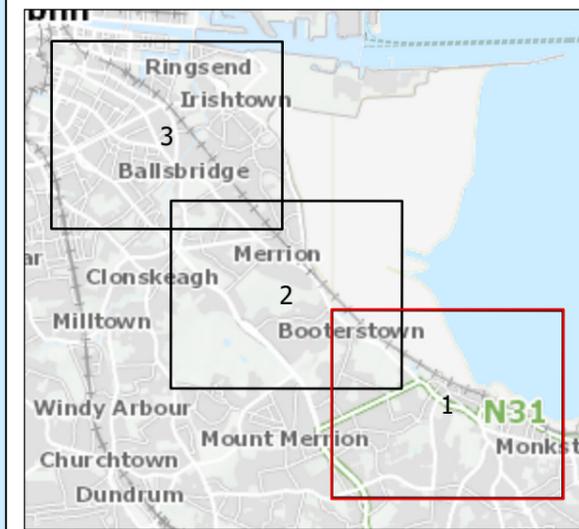
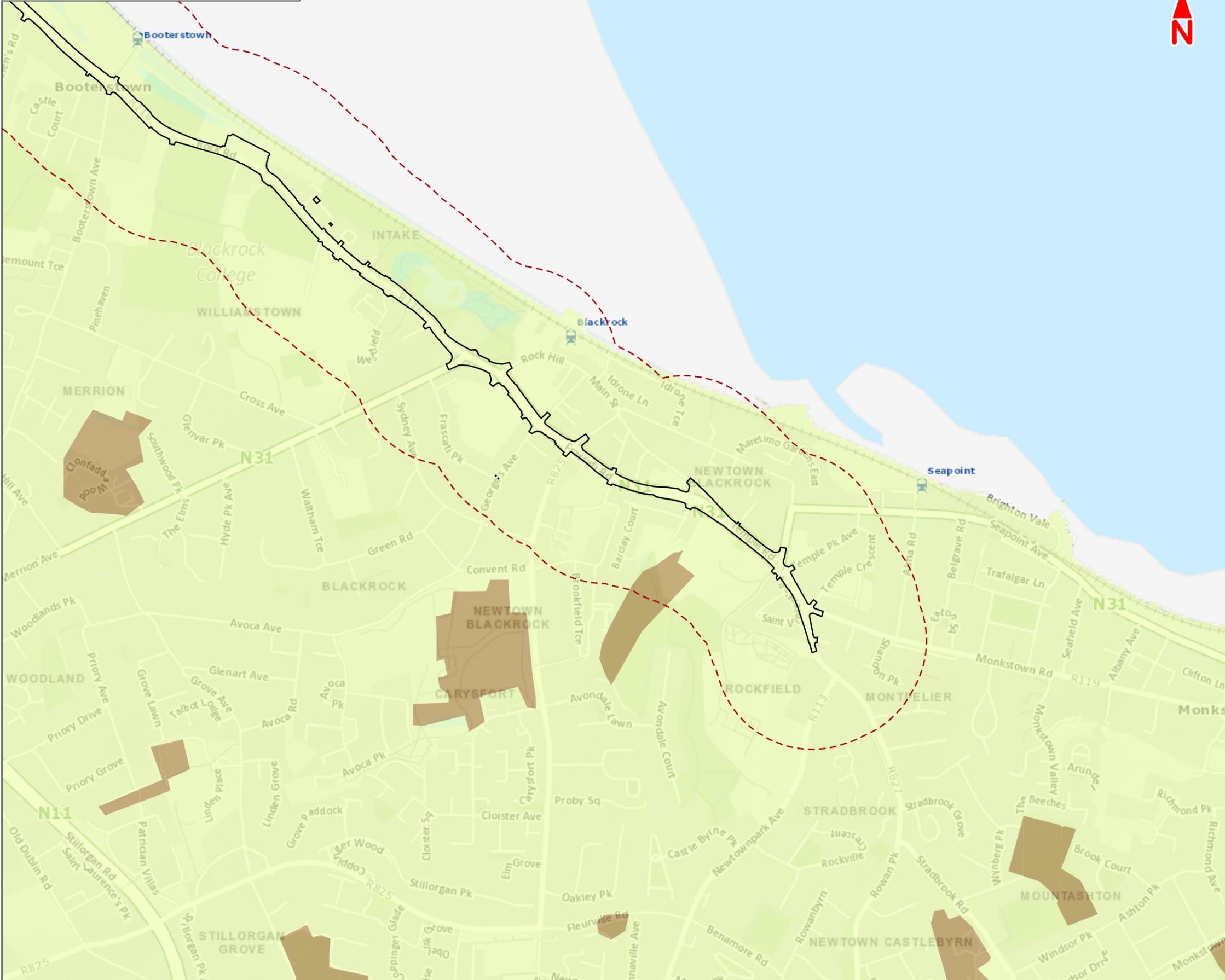
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Client	 Udarás Náisiúnta Iompair National Transport Authority	Consultant	
Date	02/02/2022	Scale @ A3	1:10,000
Project Code	BCIDE	Originator Code	JAC
Drawn	FG	Checked	PW
Approved	DK		

Programme Title	BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS		
Drawing Title	Belfield / Blackrock to City Centre Core Bus Corridor Scheme Figure 14.14 Groundwater Vulnerability		
Drawing File Name	BCIDE-JAC-ENV_GT-1415_XX_00-DR-GG-0803	Sheet Number	3 of 3
Status	A	Rev	M01

14.15
Groundwater Recharge





Legend :

- Belfield / Blackrock to City Centre Scheme
- 250m Study Area
- GSI Groundwater Recharge**
- Annual Recharge (mm)**
- 151-200 mm
- 51-100 mm
- 1-50 mm

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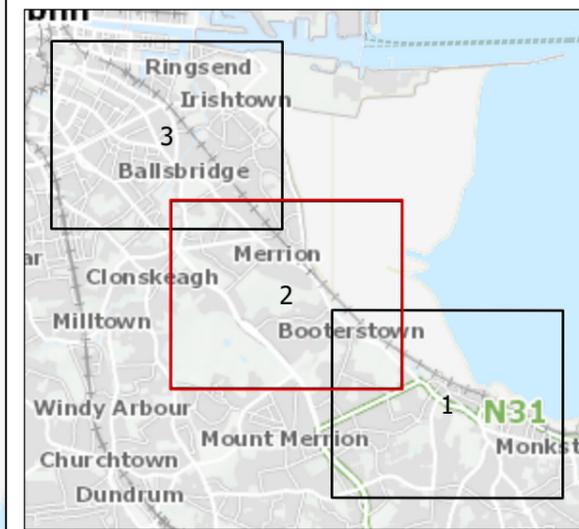
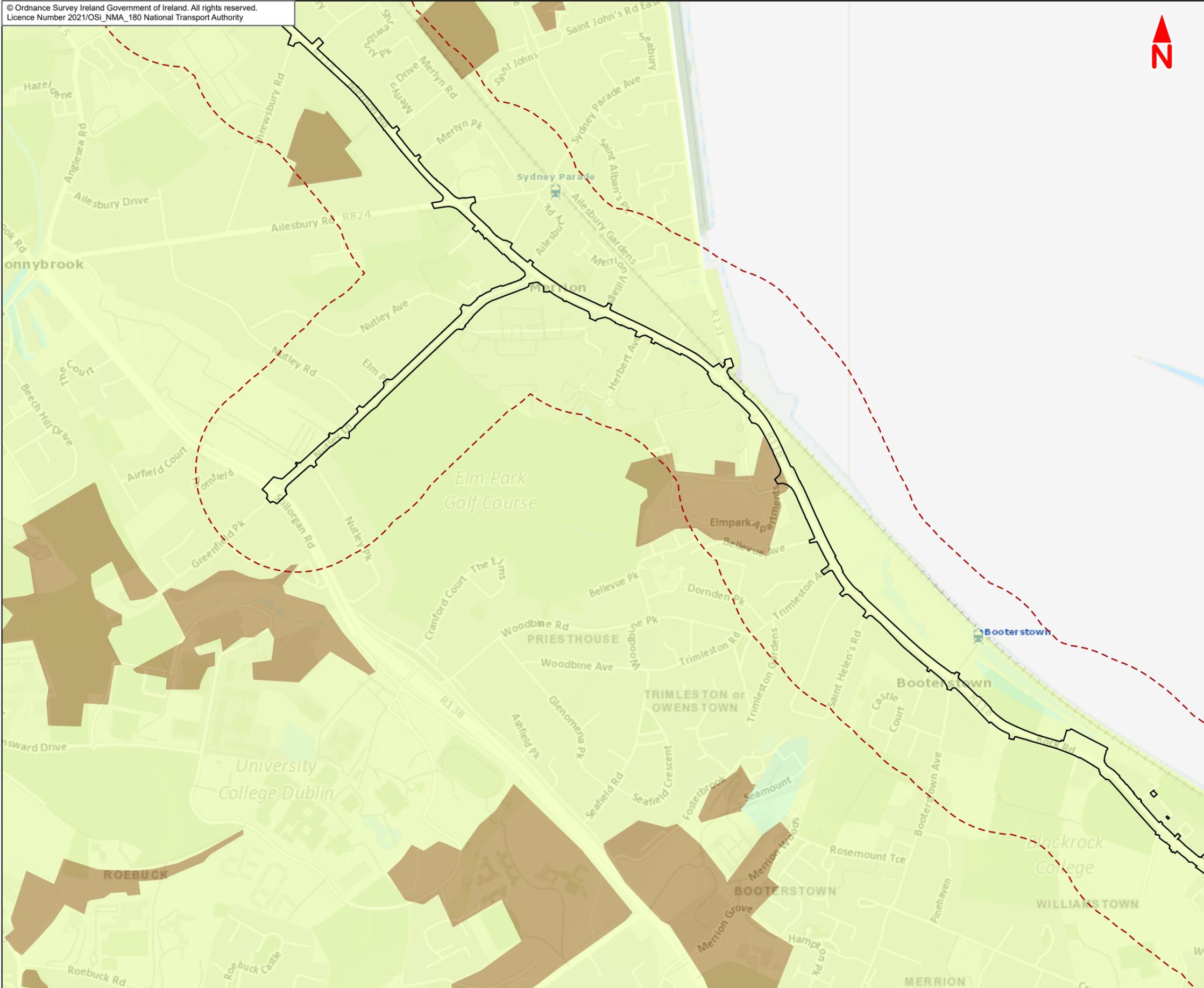
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Client Udarás Náisiúnta Iompair National Transport Authority		Consultant 		
Date	Scale @ A3	Drawn	Checked	Approved
02/02/2022	1:10,000	FG	PW	DK
Project Code	Originator Code	QMS Code		
BCIDE	JAC			

Programme Title BUSCONNECTS DUBLIN CORE BUS CORRIDORS INFRASTRUCTURE WORKS				
Drawing Title Belfield / Blackrock to City Centre Core Bus Corridor Scheme Figure 14.15 Groundwater Recharge				
Drawing File Name	Sheet Number	Status	Rev	
BCIDE-JAC-ENV_GT-1415_XX_00-DR-GG-0901	1 of 3	A	M01	



Legend :

- Belfield / Blackrock to City Centre Scheme
- 250m Study Area
- GSI Groundwater Recharge**
- Annual Recharge (mm)**
- 151-200 mm
- 51-100 mm
- 1-50 mm

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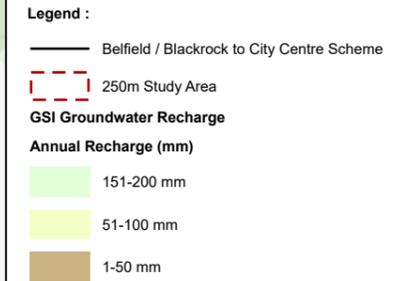
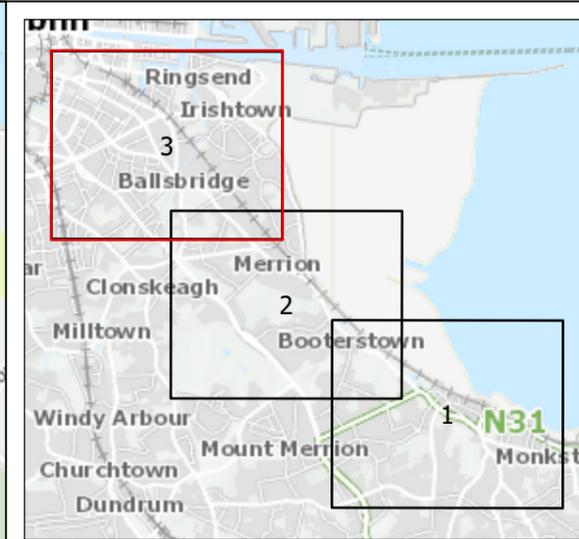
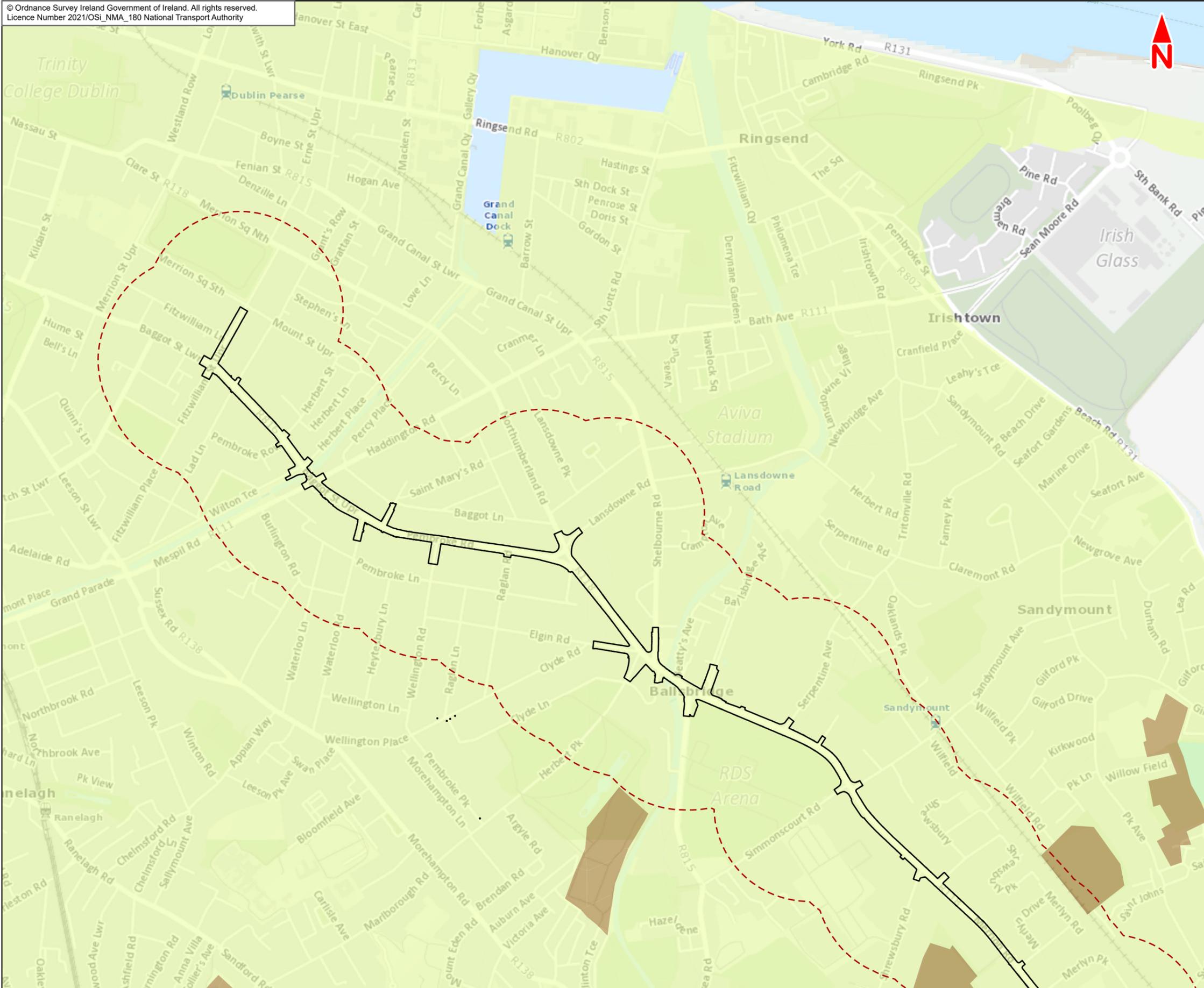
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Rev	Date	Drn	Chk'd	App'd	Description
M01	Feb 22	FG	PW	DK	ISSUE FOR PHASE 4 : PLANNING

Client NTA Udarás Náisiúnta Iompair National Transport Authority		Consultant JACOBS ARUP SYSTRA		
Date 02/02/2022	Scale @ A3 1:10,000	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 Belfield / Blackrock to City Centre Core Bus Corridor Scheme Figure 14.15 Groundwater Recharge				
Drawing File Name BCIDE-JAC-ENV_GT-1415_XX_00-DR-GG-0902	Sheet Number 2 of 3	Status A	Rev M01	



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

Consultant: **JACOBS ARUP SYSTRA**

Date: 02/02/2022 Scale @ A3: 1:10,000

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: Belfield / Blackrock to City Centre Core Bus Corridor Scheme
Figure 14.15
Groundwater Recharge

Drawing File Name: BCIDE-JAC-ENV_GT-1415_XX_00-DR-GG-0903

Sheet Number: 3 of 3

Status: A

Rev: M01