

Uisce Éireann

Compulsory Purchase Order 2025

**Water Supply Project Eastern and
Midlands Region**

Routing Report

**Appendix B - Least Constrained and Preliminary
200m Pipeline Corridor**

Document no: 32105801/CPORoutingReport/AppendixB

Version: Final

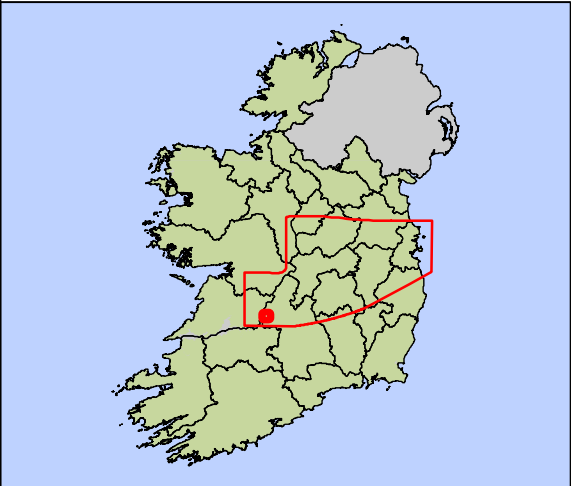
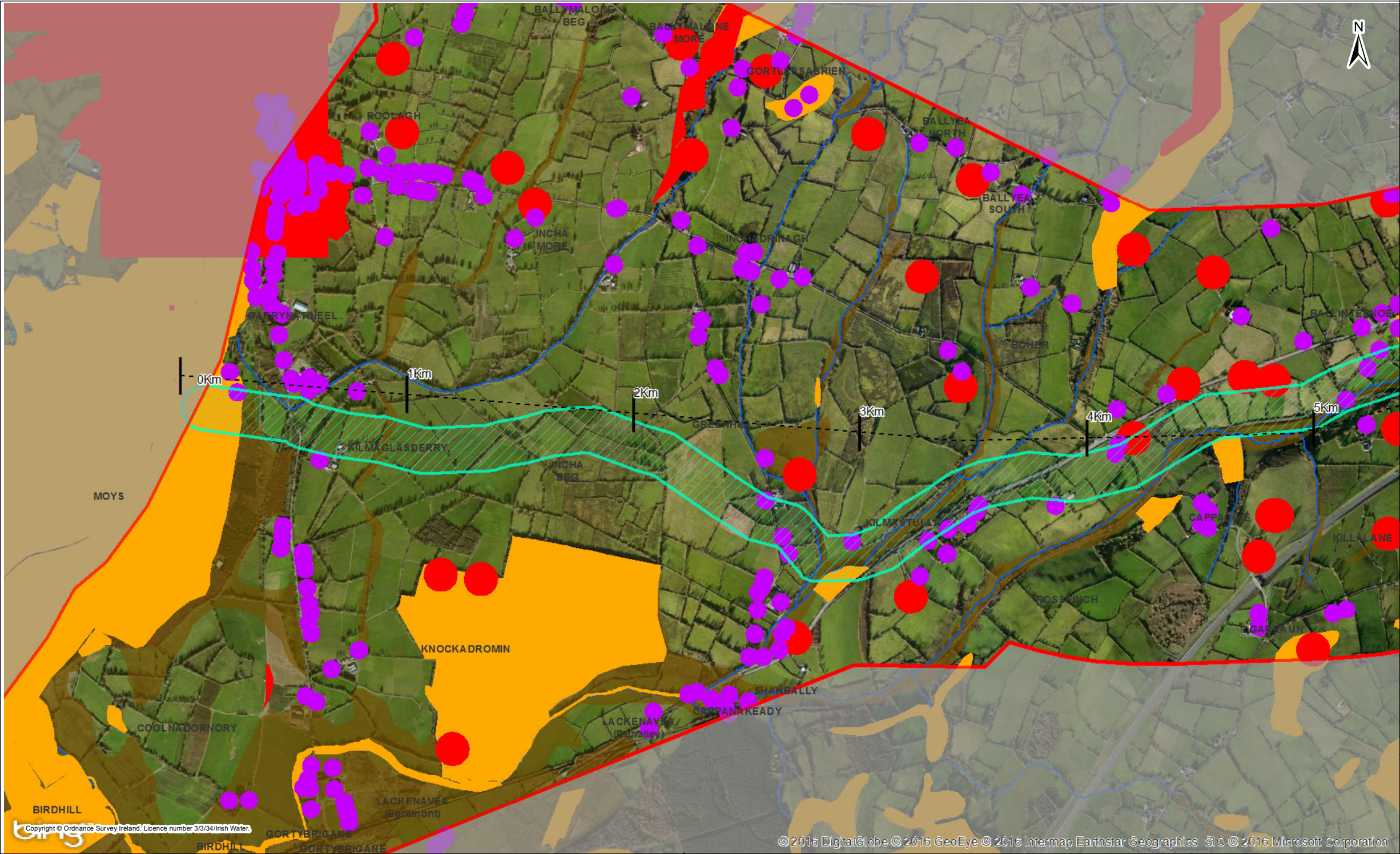
December 2025

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Appendix B: Least Constrained Route Corridor (generally 2km) & Preliminary 200m Pipeline Corridor

Drawing No.	Title
32105801-FOAR-001	Identification of Preliminary 200m Pipeline Corridor: 0 to 5km
32105801-FOAR-002	Identification of Preliminary 200m Pipeline Corridor: 5 to 10km
32105801-FOAR-003	Identification of Preliminary 200m Pipeline Corridor: 10 to 15km
32105801-FOAR-004	Identification of Preliminary 200m Pipeline Corridor: 15 to 20km
32105801-FOAR-005	Identification of Preliminary 200m Pipeline Corridor: 20 to 25km
32105801-FOAR-006	Identification of Preliminary 200m Pipeline Corridor: 25 to 30km
32105801-FOAR-007	Identification of Preliminary 200m Pipeline Corridor: 30 to 35km
32105801-FOAR-008	Identification of Preliminary 200m Pipeline Corridor: 35 to 40km
32105801-FOAR-009	Identification of Preliminary 200m Pipeline Corridor: 40 to 45km
32105801-FOAR-010	Identification of Preliminary 200m Pipeline Corridor: 45 to 50km
32105801-FOAR-011	Identification of Preliminary 200m Pipeline Corridor: 50 to 55km
32105801-FOAR-012	Identification of Preliminary 200m Pipeline Corridor: 55 to 60km
32105801-FOAR-013	Identification of Preliminary 200m Pipeline Corridor: 60 to 65km
32105801-FOAR-014	Identification of Preliminary 200m Pipeline Corridor: 65 to 70km
32105801-FOAR-015	Identification of Preliminary 200m Pipeline Corridor: 70 to 75km
32105801-FOAR-016	Identification of Preliminary 200m Pipeline Corridor: 75 to 80km
32105801-FOAR-017	Identification of Preliminary 200m Pipeline Corridor: 80 to 85km
32105801-FOAR-018	Identification of Preliminary 200m Pipeline Corridor: 85 to 90km
32105801-FOAR-019	Identification of Preliminary 200m Pipeline Corridor: 90 to 95km

Drawing No.	Title
32105801-FOAR-020	Identification of Preliminary 200m Pipeline Corridor: 95 to 100km
32105801-FOAR-021	Identification of Preliminary 200m Pipeline Corridor: 100 to 105km
32105801-FOAR-022	Identification of Preliminary 200m Pipeline Corridor: 105 to 110km
32105801-FOAR-023	Identification of Preliminary 200m Pipeline Corridor: 110 to 115km
32105801-FOAR-024	Identification of Preliminary 200m Pipeline Corridor: 115 to 120km
32105801-FOAR-025	Identification of Preliminary 200m Pipeline Corridor: 120 to 125km
32105801-FOAR-026	Identification of Preliminary 200m Pipeline Corridor: 125 to 130km
32105801-FOAR-027	Identification of Preliminary 200m Pipeline Corridor: 130 to 135km
32105801-FOAR-028	Identification of Preliminary 200m Pipeline Corridor: 135 to 140km
32105801-FOAR-029	Identification of Preliminary 200m Pipeline Corridor: 140 to 145km
32105801-FOAR-030	Identification of Preliminary 200m Pipeline Corridor: 145to 150km
32105801-FOAR-031	Identification of Preliminary 200m Pipeline Corridor: 150 to 155km
32105801-FOAR-032	Identification of Preliminary 200m Pipeline Corridor: 155 to 160km
32105801-FOAR-033	Identification of Preliminary 200m Pipeline Corridor: 160 to 165km
32105801-FOAR-034	Identification of Preliminary 200m Pipeline Corridor: 165 to 170km



Key

Centreline of Least Constrained Route Corridor

Preliminary 200m Pipeline Corridor

Least Constrained Route Corridor (Generally 2km)

Environmental Constraints

Primary Constraints

Secondary Constraints

Rivers WFD

Technical Constraints

Property Location - Including a 40m Buffer

Poor Ground

Notes :-
Mapping Contains Initial Routing of a Preliminary 200m Pipeline Corridor. This Was Subject to a Detailed Assessment and Revision. The Current Alignment is Shown on Maps 32105801-FOAR-036 to 070

Chainage	0 to 1 km	1 to 2 km	2 to 3 km	3 to 4 km	4 to 5 km
Initial Desktop Assessment of Constraints in Least Constrained Route Corridor (Generally 2km) To Inform Identification of Preliminary 200m Pipeline Corridor	- Forestry/mature woodland - Settlements - Properties - Poor ground (alluvium) - Lower River Shannon Special Area of Conservation - Roolagh River - Kilmastulla River - Designed landscape (demesne) - Material Assets (Fort Henry Business Park) - R494 & R496 regional road	- National Monuments - Properties - Forestry - Mature tree lines - Poor ground (alluvium) - Roolagh River - Kilmastulla River - R496 regional road	- Properties - Poor ground (alluvium) - Groundwater Vulnerability Rock at or Near Surface or Karst Feature - National Monuments - R496 & R445 regional road	- National Monuments - Properties - SMR Zone (Archaeology) - R496 & R445 regional road - National rail line - Dense riparian woodland - Designed landscape (demesne)	- Properties - Poor ground (alluvium) - National Monuments - R445 regional road - National rail line

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Rev. DatePurpose of revisionDrawnCheck'dRev'dAppr'd

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Water Supply Project - Eastern and Midlands Region

Drawing Title

Identification of Preliminary 200m Pipeline Corridor : 0 to 5 km

Drawing Status

For Issue

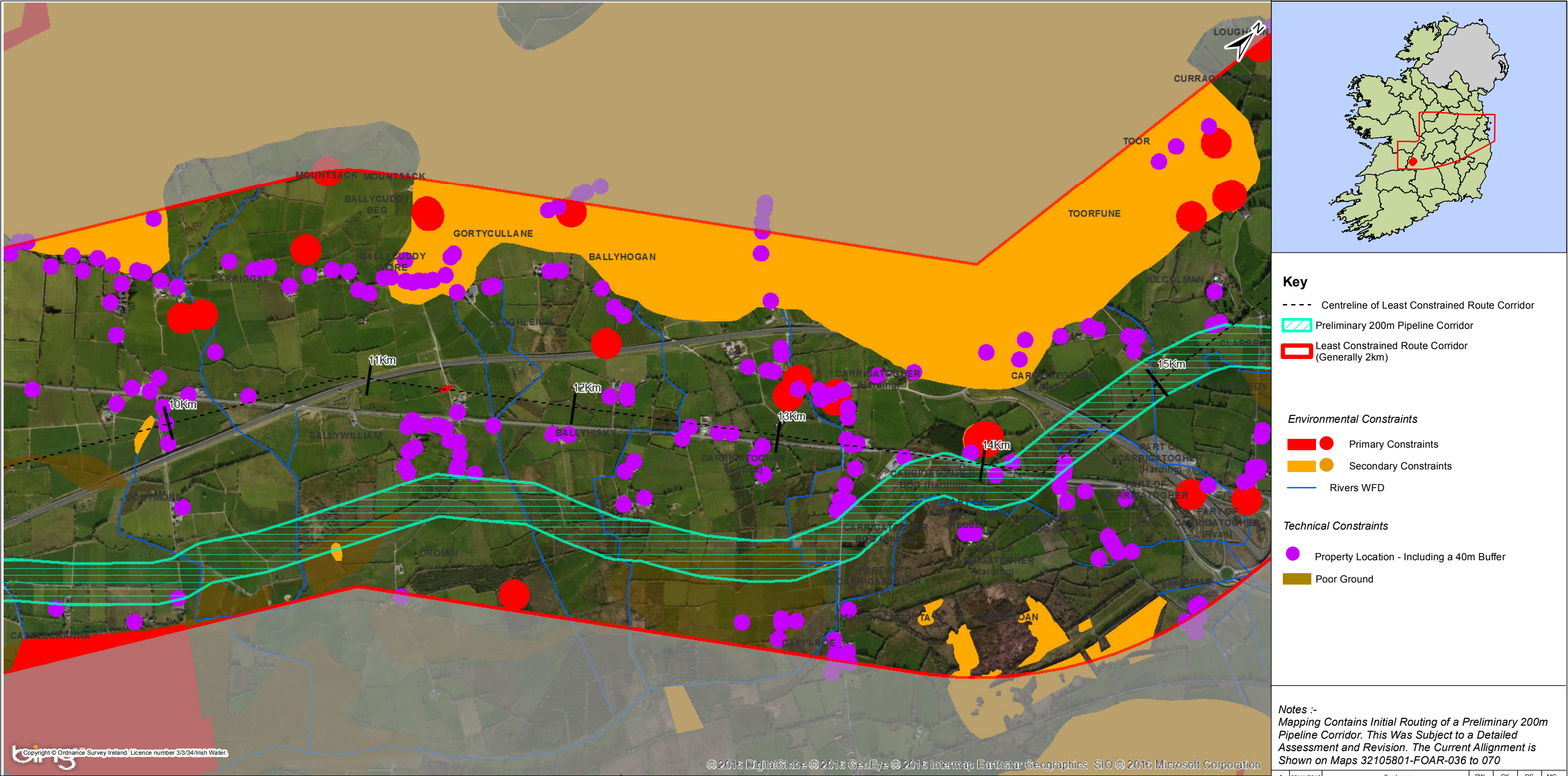
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Jacobs No.32105801Client No.WSP1

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Drawing No.32105801-FOAR-001

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Chainage	10 to 11 km	11 to 12 km	12 to 13 km	13 to 14 km	14 to 15 km
Initial Desktop Assessment of Constraints in Least Constrained Route Corridor (Generally 2km) To Inform Identification of Preliminary 200m Pipeline Corridor	- Properties - National Monuments - River Carrigal - River Gortmore -Gortmore Mines - Made Ground - Poor ground (alluvium) -Groundwater Vulnerabilty Rock at or Near Surface or Karst feature - Poor ground (exposed rock) - Groundwater Vulnerabilty Extreme - R445 regional road - M7 motorway	- Properties - National Monuments - River Ballycuddy More - River Mountsack - Pits and Quarries - Subsoils Exposed Rock and Karst - Poor ground (lake deposits) - Poor ground (exposed rock and karst) - Groundwater Vulnerabilty Rock at or Near Surface or Karst feature - Groundwater Vulnerabilty Extreme - R445 regional road - M7 motorway	- Properties - National Monuments - River Cloghleigh - Rivers Patrickswell - River Mountsack - Poor ground (glaciofluvial sands and gravels) - Poor ground (bogs) - Groundwater Vulnerabilty Extreme - Groundwater Vulnerabilty Rock at or Near Surface or Karst feature - SMR Zone (Archaeology) - R445 regional road - M7 motorway	- Properties - National Monuments - River Patrickswell - River Abbott - Ardgregane Stream - Groundwater Vulnerabilty Extreme - Groundwater Vulnerabilty Rock at or Near Surface or Karst feature - Poor ground (bogs) - Poor ground (exposed rock and karst) - SMR Zone (Archaeology) - R445 regional road - M7 motorway	- Properties - National Monuments - Forestry - River Abbott - Rivers Toorfune - River Harding - River Ryan - Groundwater Vulnerabilty Extreme - Groundwater Vulnerabilty Rock at or Near Surface or Karst feature - Poor ground (alluvium) - Poor ground (exposed rock and karst) - R445 regional road - M7 motorway

Key

Centreline of Least Constrained Route Corridor

Preliminary 200m Pipeline Corridor

Least Constrained Route Corridor (Generally 2km)

Environmental Constraints

Primary Constraints

Secondary Constraints

Rivers WFD

Technical Constraints

Property Location - Including a 40m Buffer

Poor Ground

Notes :-

Mapping Contains Initial Routing of a Preliminary 200m Pipeline Corridor. This Was Subject to a Detailed Assessment and Revision. The Current Alignment is Shown on Maps 32105801-FOAR-036 to 070

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Water Supply Project - Eastern and Midlands Region

Drawing Title

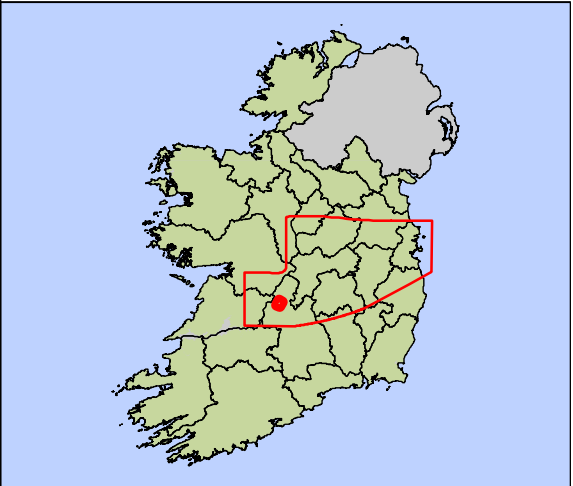
Identification of Preliminary 200m Pipeline Corridor : 10 to 15 km

Drawing Status

For Issue

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Drawing No.	32105801-FOAR-003		

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Key

Centreline of Least Constrained Route Corridor

Preliminary 200m Pipeline Corridor

Least Constrained Route Corridor
(Generally 2km)

Environmental Constraints

Primary Constraints

Secondary Constraints

Rivers WFD

Technical Constraints

Property Location - Including a 40m Buffer

Poor Ground

Notes :-
Mapping Contains Initial Routing of a Preliminary 200m Pipeline Corridor. This Was Subject to a Detailed Assessment and Revision. The Current Alignment is Shown on Maps 32105801-FOAR-036 to 070

Chainage	20 to 21 km	21 to 22 km	22 to 23 km	23 to 24 km	24 to 25 km
Initial Desktop Assessment of Constraints in Least Constrained Route Corridor (Generally 2km) To Inform Identification of Preliminary 200m Pipeline Corridor	- Properties - National Monuments - Poor ground (glaciofluvial sands and gravels) - Poor ground (alluvium) - Protected Structures - Landscapes - River Moyroe - River Nenagh - Rivers Monsea - Designed landscape (demesne)	- Properties - National Monuments - Additional habitats - Poor ground (bog) - Poor ground (glaciofluvial sands and gravels) - Poor ground (alluvium) - Landscapes - Groundwater Vulnerabilty Extreme or Near Surface or Karst feature - River Moyroe - Rivers Nenagh - Rivers Upper Ballyanny - SMR Zone (Archaeology) - Designed landscape (demesne)	- Properties - National Monumnets - Poor ground (alluvium) - Landscapes - Protected structures - River Nenagh - Rivers Upper ballyanny - Knigh Hill stream - R493 regional road - Designed landscape (demesne)	- Properties - National Monumnets - Landscapes - Poor ground (exposed rock and karst) - Poor ground (glaciofluvial sands and gravels) - Poor ground (alluvium) - Pits and quarries - Groundwater Vulnerability Extreme - Groundwater Vulnerability Rock at or Near Surface or Karst feature - River Nenagh - SMR Zone (Archaeology)	- Properties - National Monuments - Poor ground (exposed rock and karst) - Poor ground (lake deposits) - Poor ground (alluvium) - Lough Ourna - Forestry - Groundwater Vulnerability Extreme or Near Surface or Karst feature - Additional Habitats - SMR Zone (Archaeology) - Designed landscape (demesne)

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Drawing Title

Identification of Preliminary 200m Pipeline Corridor : 20 to 25 km

Drawing Status

For Issue

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Client No.

WSP1

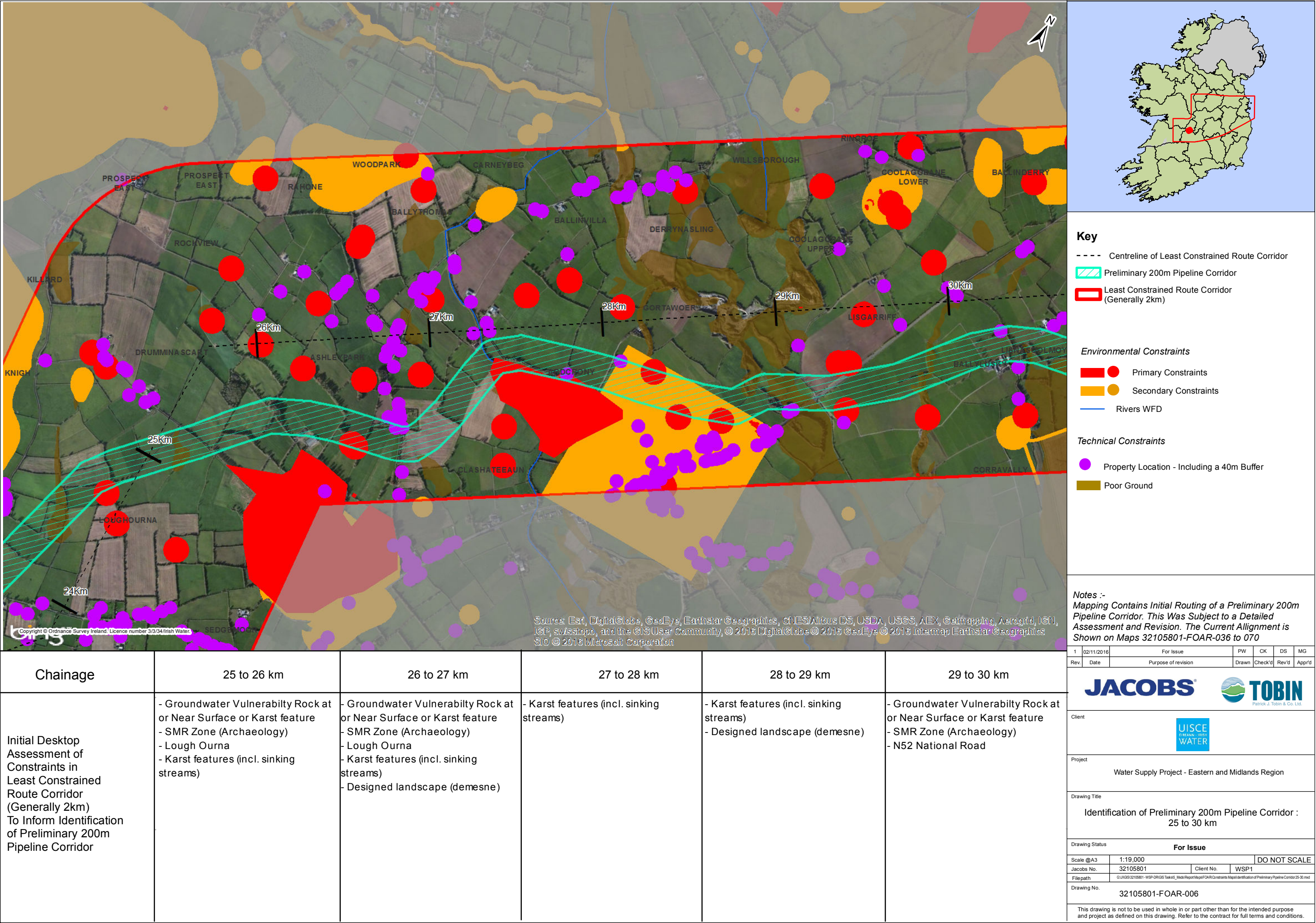
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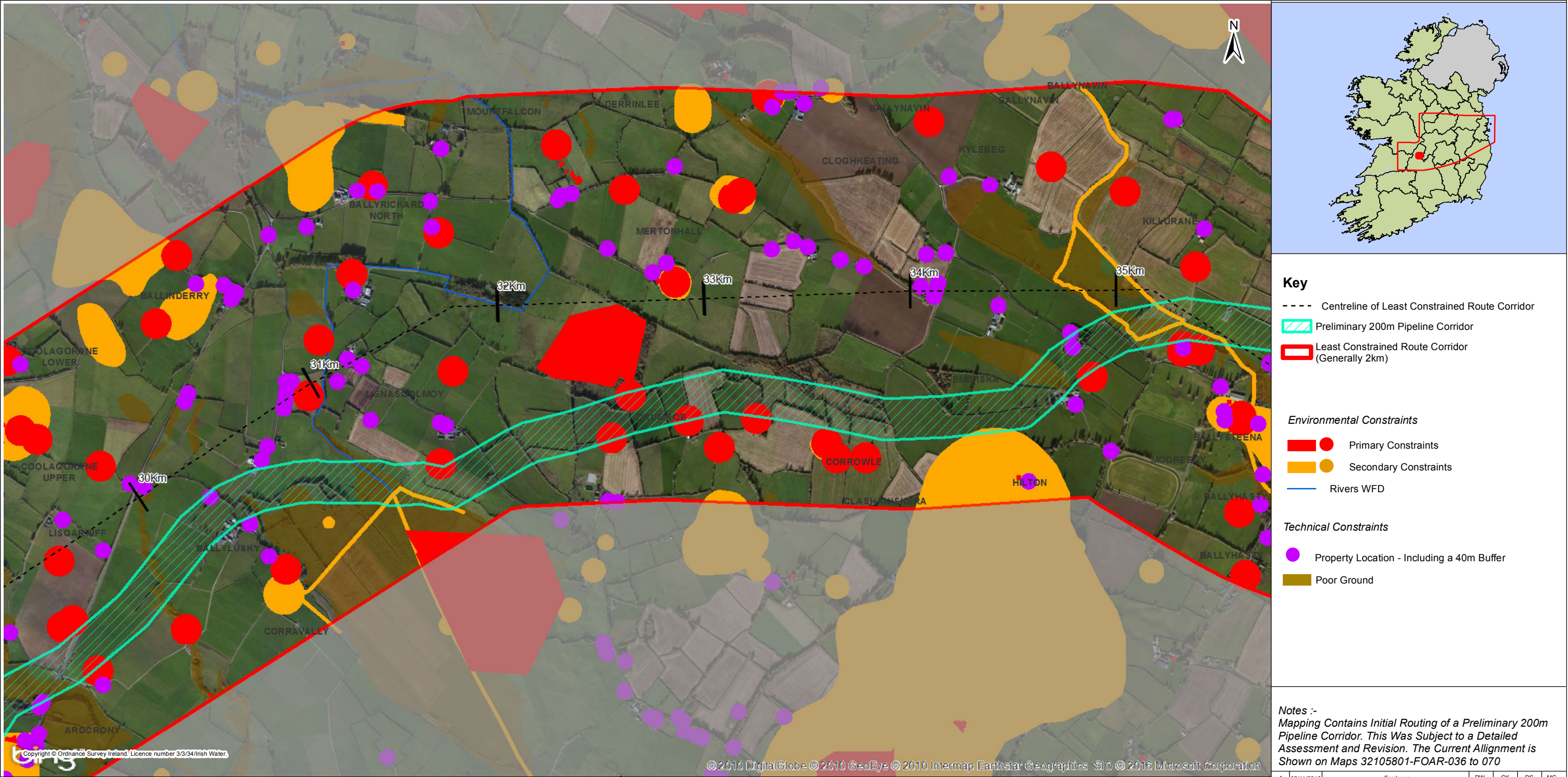
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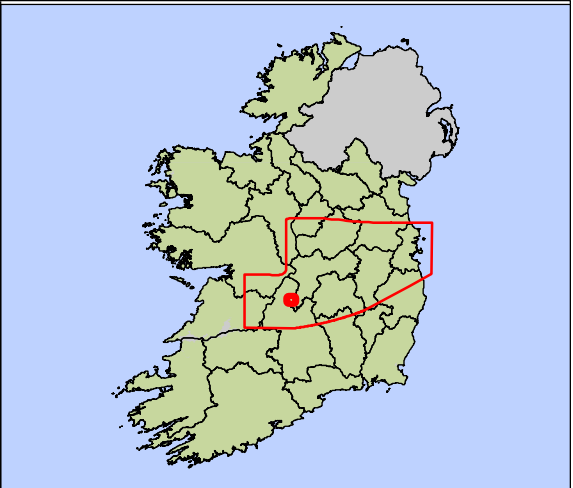
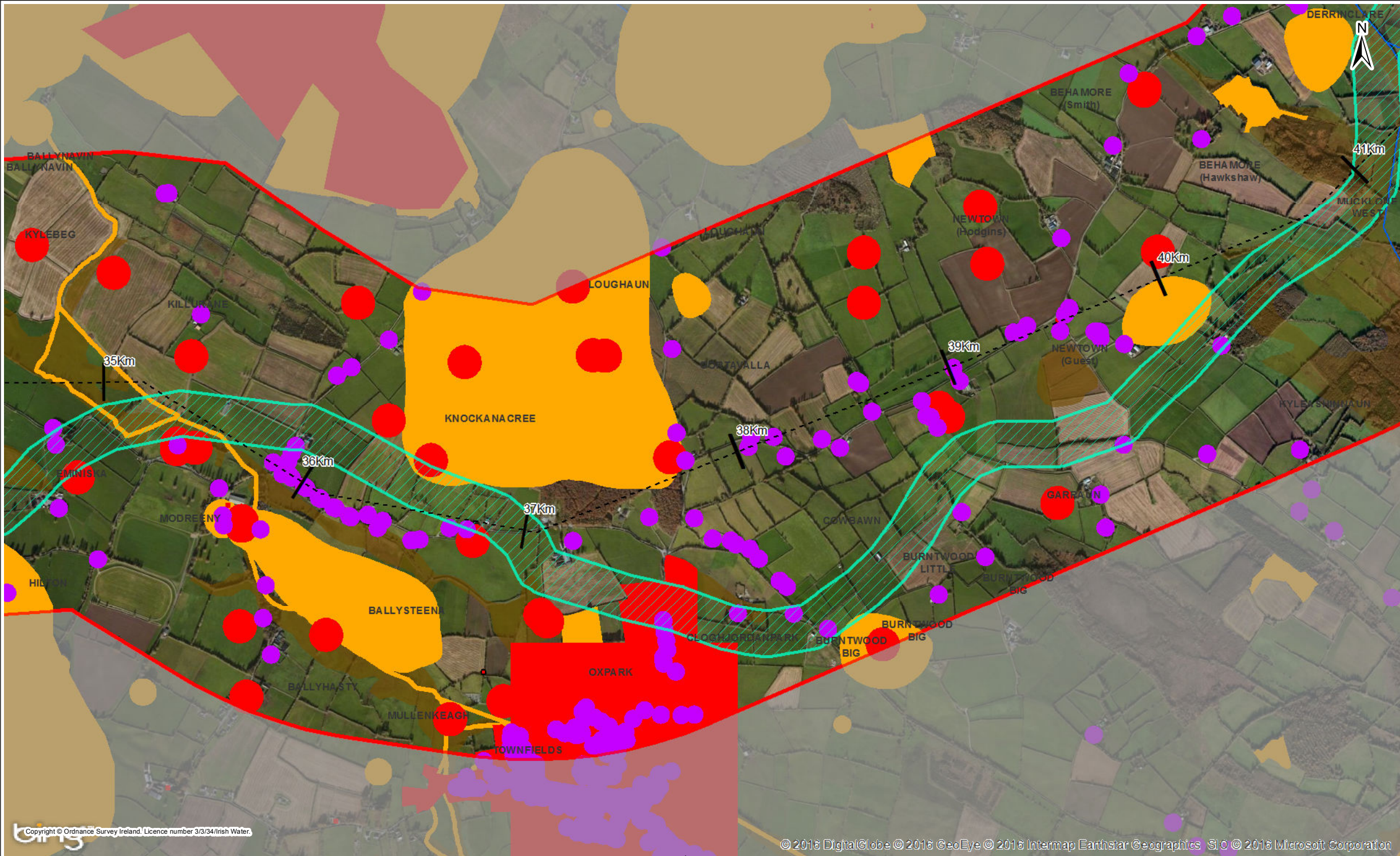
32105801-FOAR-005

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Chainage	30 to 31 km	31 to 32 km	32 to 33 km	33 to 34 km	34 to 35 km	
Initial Desktop Assessment of Constraints in Least Constrained Route Corridor (Generally 2km) To Inform Identification of Preliminary 200m Pipeline Corridor	- Properties - National Monuments - Poor ground (glacifuvialsands and gravels) - Poor ground (alluvium) - Poor ground (exposed rock and karst) - Poor ground (lake deposits) - SMR Zone (Archaeology) - Landscapes - Pits and quarries - Forestry - Groundwater Vulnerability Extreme - Groundwater Vulnerability Rock at or Near Surface or Karst feature - River Corralva - SMR Zone (Archaeology) - N52 National Road - Designed landscape (demesne)	- Properties - National Monuments - Poor ground (glacifuvialsands and gravels) - Poor ground (lake deposits) - Poor ground (alluvium) - Landscapes - Additional Habitats - Protected structures - Forestry - Groundwater Vulnerability Extreme - Groundwater Vulnerability Rock at or Near Surface or Karst feature - River Sheshersghmore - River Corralva - River Lisnasoolmoy - Designed landscape (demesne)	- Properties - National Monuments - Poor ground (lake deposits) - Poor ground (bog) - Poor ground (rock and karst) - Poor ground (glacifuvialsands and gravels) - Landscapes - Additional Habitats - Pits and quarries - Protected structures - Groundwater Vulnerability Extreme - Groundwater Vulnerability Rock at or Near Surface or Karst feature - River Sheshersghmore - Designed landscape (demesne)	- Properties - National Monuments - Additional habitats - Poor ground (bog) - Poor ground (exposed rock and karst) - Poor ground (lake deposits) - Poor ground (alluvium) - Landscapes - Groundwater Vulnerability Extreme - Groundwater Vulnerability Rock at or Near Surface or Karst feature - River Sheshersghmore - Designed landscape (demesne)	- Properties - National Monuments - Poor ground (peat) - Poor ground (alluvium) - Poor ground (exposed rock and karst) - Poor ground (glacifuvialsands and gravels) - Landscapes - Protected structures - SMR Zone (Archaeology) - Groundwater Vulnerability Extreme - Groundwater Vulnerability Rock at or Near Surface or Karst feature - River Ballynboy - R490 regional road - Designed landscape (demesne)	
	Rev. 02/11/2016 For Issue Date Purpose of revision Drawn Check'd Rev'd App'd					
	JACOBS TOBIN Patrick J. Tobin & Co. Ltd.					
	Client UISCE IRISH WATER					
	Project Water Supply Project - Eastern and Midlands Region					
Drawing Title Identification of Preliminary 200m Pipeline Corridor : 30 to 35 km						
Drawing Status For Issue						
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Key

Centreline of Least Constrained Route Corridor

Preliminary 200m Pipeline Corridor

Least Constrained Route Corridor (Generally 2km)

Environmental Constraints

Primary Constraints

Secondary Constraints

Rivers WFD

Technical Constraints

Property Location - Including a 40m Buffer

Poor Ground

Notes :-
Mapping Contains Initial Routing of a Preliminary 200m Pipeline Corridor. This Was Subject to a Detailed Assessment and Revision. The Current Alignment is Shown on Maps 32105801-FOAR-036 to 070

Chainage	35 to 36 km	36 to 37 km	37 to 38 km	38 to 39 km	39 to 40 km
Initial Desktop Assessment of Constraints in Least Constrained Route Corridor (Generally 2km) To Inform Identification of Preliminary 200m Pipeline Corridor	- Properties - National Monuments - Poor ground (glaciofluvial sands and gravels) - Poor ground (alluvium) -Poor ground (bog) - Poor ground (exposed rock and karst) - Landscapes - Protected structure - SMR Zone (Archaeology) - Groundwater Vulnerability Extreme - Designed landscape (demesne)- Groundwater Vulnerability Rock at or Near Surface or Karst feature - River Ballyfinboy - R490 regional road	- Properties - National Monuments - SMR Zone (Archaeology) - Poor ground (peat) - Poor ground (alluvium) - Poor ground (expost rock and karst) - Landscapes - Wastewater treatment plant - Groundwater Vulnerabilty Extreme - Groundwater Vulnerabilty Rock at or Near Surface or Karst feature - River Ballyfinboy - SMR Zone (Archaeology) - Designed landscape (demesne)	- Properties - National Monuments - Poor ground (exposed rock and karst) - Poor ground (alluvium) - Landscapes - Settlements - Protected structures - Forestry - SMR Zone (Archaeology) - Groundwater Vulnerability Extreme - Groundwater Vulnerability Rock at or Near Surface or Karst feature - SMR Zone (Archaeology) - Designed landscape (demesne)	- Properties - National Monuments - Poor ground (exposed rock and karst) - Poor ground (alluvium) - Landscapes - Protected structure - Forestry - SMR Zone (Archaeology) - Groundwater Vulnerabilty Extreme - Groundwater Vulnerabilty Rock at or Near Surface or Karst feature - SMR Zone (Archaeology) - R491regional road	- Properties - National Monuments - Poor ground (exposed rock and karst) - Poor ground (lake deposits) - Landscapes - Protected structures - Forestry - SMR Zone (Archaeology) - Groundwater Vulnerability Extreme - Groundwater Vulnerability Rock at or Near Surface or Karst feature - SMR Zone (Archaeology) - R491regional road

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Drawing Title

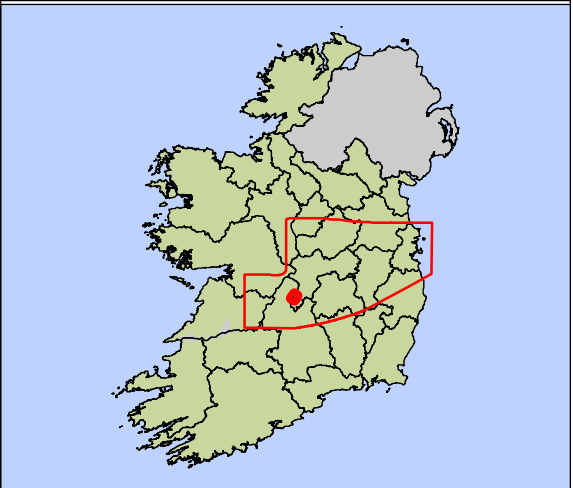
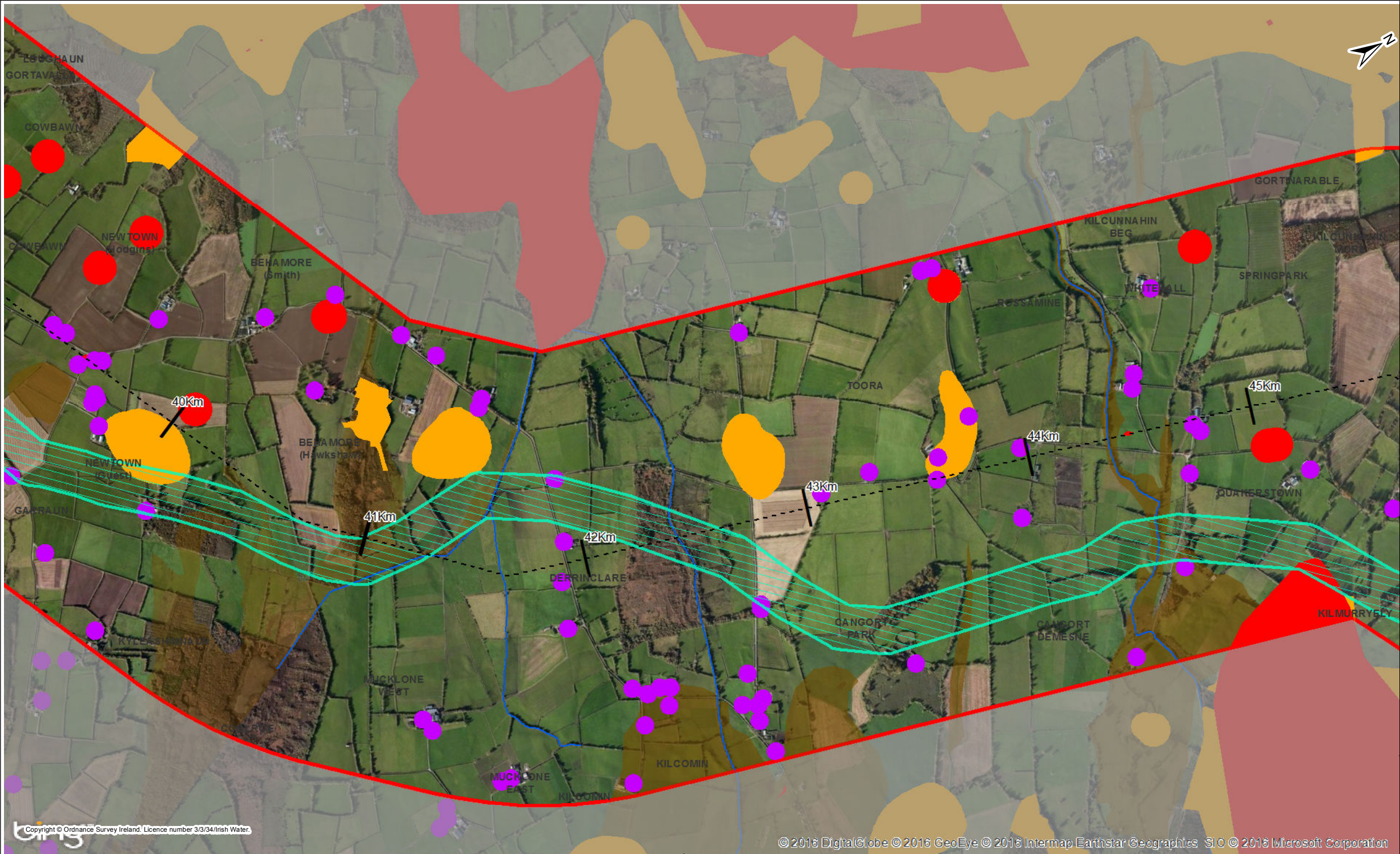
Identification of Preliminary 200m Pipeline Corridor :
35 to 40 km

Drawing Status

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Key

Centreline of Least Constrained Route Corridor

Preliminary 200m Pipeline Corridor

Least Constrained Route Corridor (Generally 2km)

Environmental Constraints

Primary Constraints

Secondary Constraints

Rivers WFD

Technical Constraints

Property Location - Including a 40m Buffer

Poor Ground

Notes :-
Mapping Contains Initial Routing of a Preliminary 200m Pipeline Corridor. This Was Subject to a Detailed Assessment and Revision. The Current Alignment is Shown on Maps 32105801-FOAR-036 to 070

Chainage	40 to 41 km	41 to 42 km	42 to 43 km	43 to 44 km	44 to 45 km
Initial Desktop Assessment of Constraints in Least Constrained Route Corridor (Generally 2km) To Inform Identification of Preliminary 200m Pipeline Corridor	Properties National Monuments SMRZone (Archaeology) Regional Road (R491) Poor ground (bogs) Poor ground (lake deposits) Poor ground (exposed rock and karst) Landscapes Protected structures Forestry SMRZone (Archaeology) Groundwater Vulnerability Extreme Groundwater Vulnerability Rock at or Near Surface or Karst feature River west mucklone R491regional road Designed landscape (demesne)	Properties Poor ground (exposed rock and karst) Poor ground (bogs) Groundwater Vulnerability Extreme Groundwater Vulnerability Rock at or Near Surface or Karst feature River Derrinclare River west mucklone R491regional road	Properties Poor ground (bog) Poor ground (expost rock and karst) Poor ground ((glaciofluvial sandsand gravels) Poor ground (alluvium) Landscapes Groundwater Vulnerability Extreme Groundwater Vulnerability Rock at or Near Surface or Karst feature River Derrinclare River west mucklone R491regional road	Properties National Monuments Poor ground (Exposed Rock and Karst) Poor ground (glaciofluvial sandsand gravels) Poor ground (alluvium) Landscapes Architectural Conservation Area Offaly Groundwater Vulnerability Extreme Groundwater Vulnerability Rock at or Near Surface or Karst feature Designed landscape (demesne)	Properties National Monuments Poor ground (bogs) Poor ground (glaciofluvial sandsand gravels) Poor ground (alluvium) Landscape Additional Habitats Pitsand quarries Woodland habitats SMRZone (Archaeology) Groundwater Vulnerability Extreme Shinrone stream Designed landscape (demesne)

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Drawing Title

Identification of Preliminary 200m Pipeline Corridor : 40 to 45 km

Drawing Status

For Issue

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Client No.

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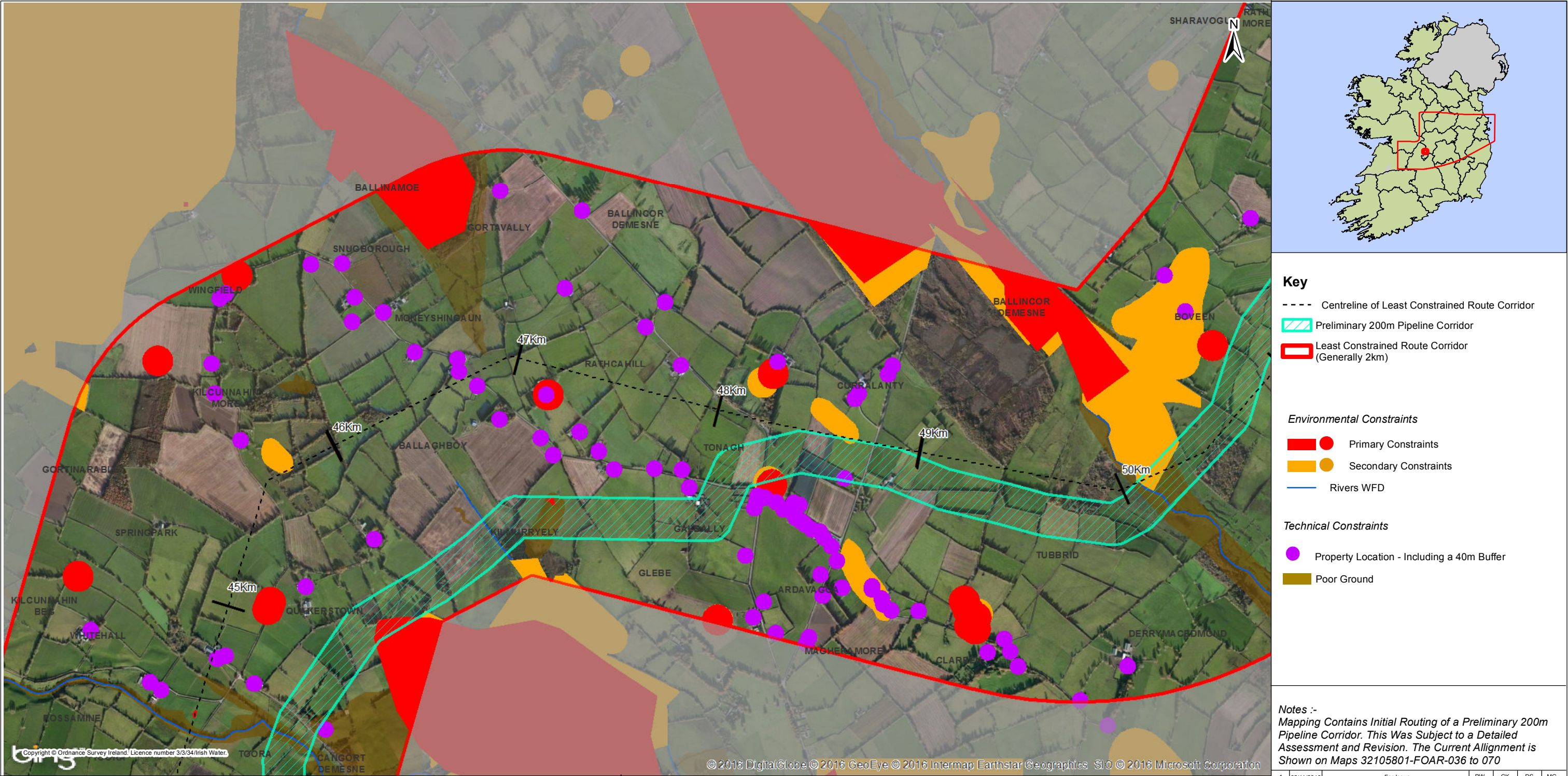
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Drawing No.

32105801-FOAR-009

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Key

- Centreline of Least Constrained Route Corridor
- ▨ Preliminary 200m Pipeline Corridor
- ▭ Least Constrained Route Corridor (Generally 2km)

Environmental Constraints

- Primary Constraints
- Secondary Constraints
- Rivers WFD

Technical Constraints

- Property Location - Including a 40m Buffer
- Poor Ground

Notes :-
Mapping Contains Initial Routing of a Preliminary 200m Pipeline Corridor. This Was Subject to a Detailed Assessment and Revision. The Current Alignment is Shown on Maps 32105801-FOAR-036 to 070

Chainage	45 to 46 km	46 to 47 km	47 to 48 km	48 to 49 km	49 to 50 km
Initial Desktop Assessment of Constraints in Least Constrained Route Corridor (Generally 2km) To Inform Identification of Preliminary 200m Pipeline Corridor	- Properties - National Monuments - Poor ground (exposed rock and karst) - Poor ground (glaciofluvial sands and gravels) - Poor ground (alluvium) - Landscapes - Additional Habitats - Cangort bog NHA - Woodland habitats - Forestry - SMR Zone (Archaeology) - Groundwater Vulnerability Extreme - Groundwater Vulnerability Rock at or Near Surface or Karst feature - Designed landscape (demesne)	- Properties - Poor ground (bogs) - Poor ground (glaciofluvial sands and gravels) - Poor ground (alluvium) - Landscapes - Additional Habitats - Cangort bog NHA - Woodland habitats - River Quakerstown - Designed landscape (demesne)	- Properties - National Monuments - Poor ground (glaciofluvial sands and gravels) - Landscapes - Pits and quarries - Cangort bog NHA - River Quakerstown - Designed landscape (demesne)	- Properties - National Monuments - Poor ground (exposed rock and karst) - Landscapes - Additional habitats - SMR Zone (Archaeology) - Coillte forest property - Architectural Conservation Areas Offaly - Groundwater Vulnerability Extreme - Groundwater Vulnerability Rock at or Near Surface or Karst feature - R492 regional road - Designed landscape (demesne)	- Properties - National Monuments - Poor ground (exposed rock and karst) - Poor ground (glaciofluvial sands and gravels) - Poor ground (alluvium) - Landscapes - Additional Habitats - Cangort bog NHA - Woodland habitats - Forestry - SMR Zone (Archaeology) - Groundwater Vulnerability Extreme - Groundwater Vulnerability Rock at or Near Surface or Karst feature - Designed landscape (demesne)

1	02/11/2016	For Issue	PW	CK	DS	MG
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	App'd

Client

Project

Water Supply Project - Eastern and Midlands Region

Drawing Title

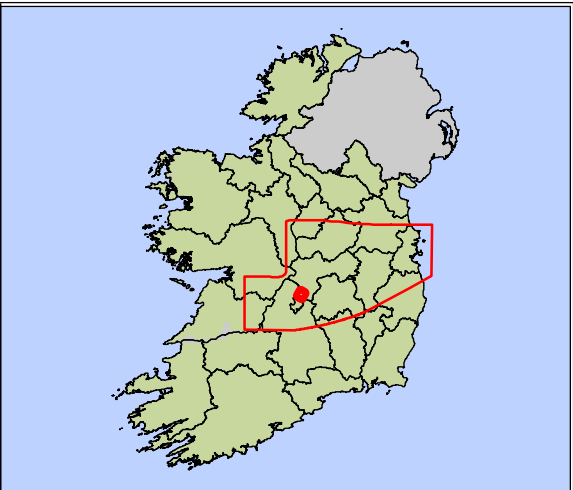
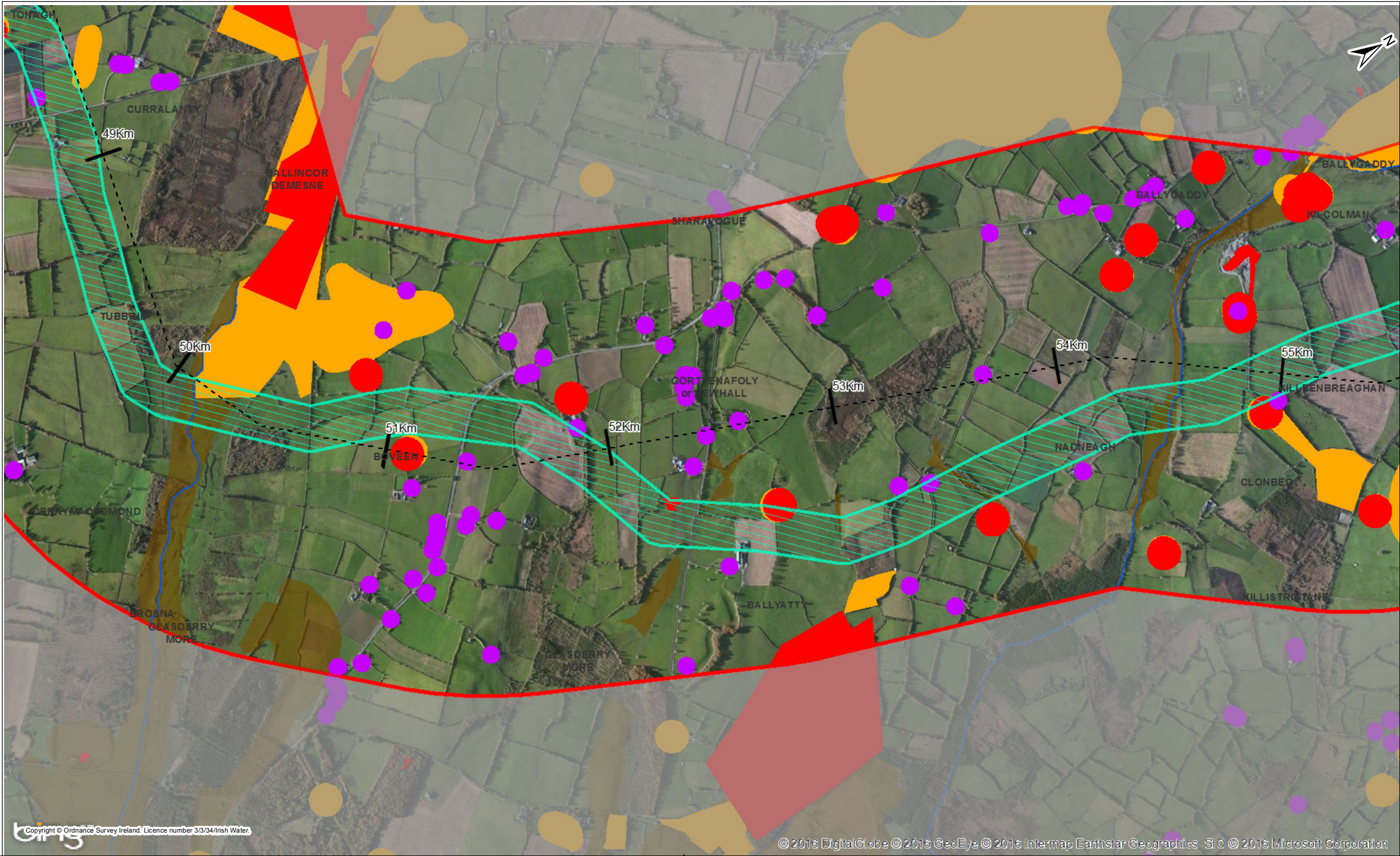
Identification of Preliminary 200m Pipeline Corridor : 45 to 50 km

Drawing Status

For Issue

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Key

Centreline of Least Constrained Route Corridor

Preliminary 200m Pipeline Corridor

Least Constrained Route Corridor (Generally 2km)

Environmental Constraints

Primary Constraints

Secondary Constraints

Rivers WFD

Technical Constraints

Property Location - Including a 40m Buffer

Poor Ground

Notes :-
Mapping Contains Initial Routing of a Preliminary 200m Pipeline Corridor. This Was Subject to a Detailed Assessment and Revision. The Current Alignment is Shown on Maps 32105801-FOAR-036 to 070

Chainage	50 to 51 km	51 to 52 km	52 to 53 km	53 to 54 km	54 to 55 km
Initial Desktop Assessment of Constraints in Least Constrained Route Corridor (Generally 2km) To Inform Identification of Preliminary 200m Pipeline Corridor	- Properties - National Monuments - Poor ground (exposed rock and karst) - Poor ground (glaciofluvial sands and gravels) - Poor ground (alluvium) - Additional Habitats - Forestry - Semi natural grassland - Architectural Conservation Areas Offaly - Groundwater Vulnerability Extreme - Groundwater Vulnerability Rock at or Near Surface or Karst feature - River little broсна	- Properties - National Monuments - SMR Zone (Archaeology) - Architectural Conservation Areas Offaly - Groundwater Vulnerability Extreme - Groundwater Vulnerability Rock at or Near Surface or Karst feature - N62 National Road	- Properties - National Monuments - Poor ground (bogs) - Poor ground (lake deposits) - Poor grounds (alluvium) - Landscapes - Additional Habitats - Architectural Conservation Areas Offaly - River birr - N62 National Road	- Properties - National Monuments - Poor ground (alluvium) - Landscapes - Additional habitats - Forestry - Architectural Conservation Areas Offaly - River birr - Designed landscape (demesne)	- Properties - National Monuments - Poor soils (alluvium) - Pits and quarries - Forestry - Architectural Conservation Areas Offaly - River Birr

1	02/11/2016	For Issue	PW	CK	DS	MG
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	App'd

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Client

UISCE
Uisce Éireann - Irish Water

Project

Water Supply Project - Eastern and Midlands Region

Drawing Title

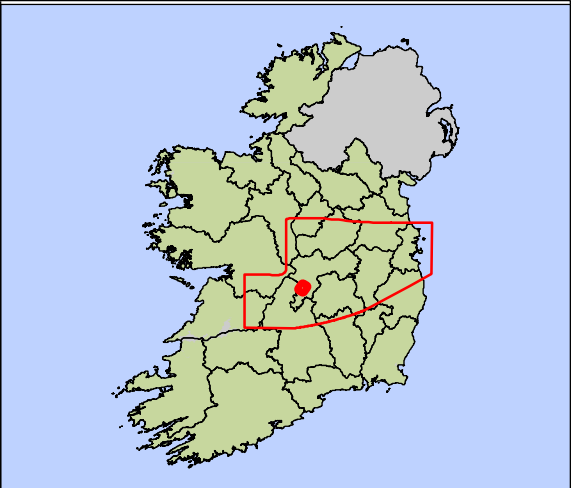
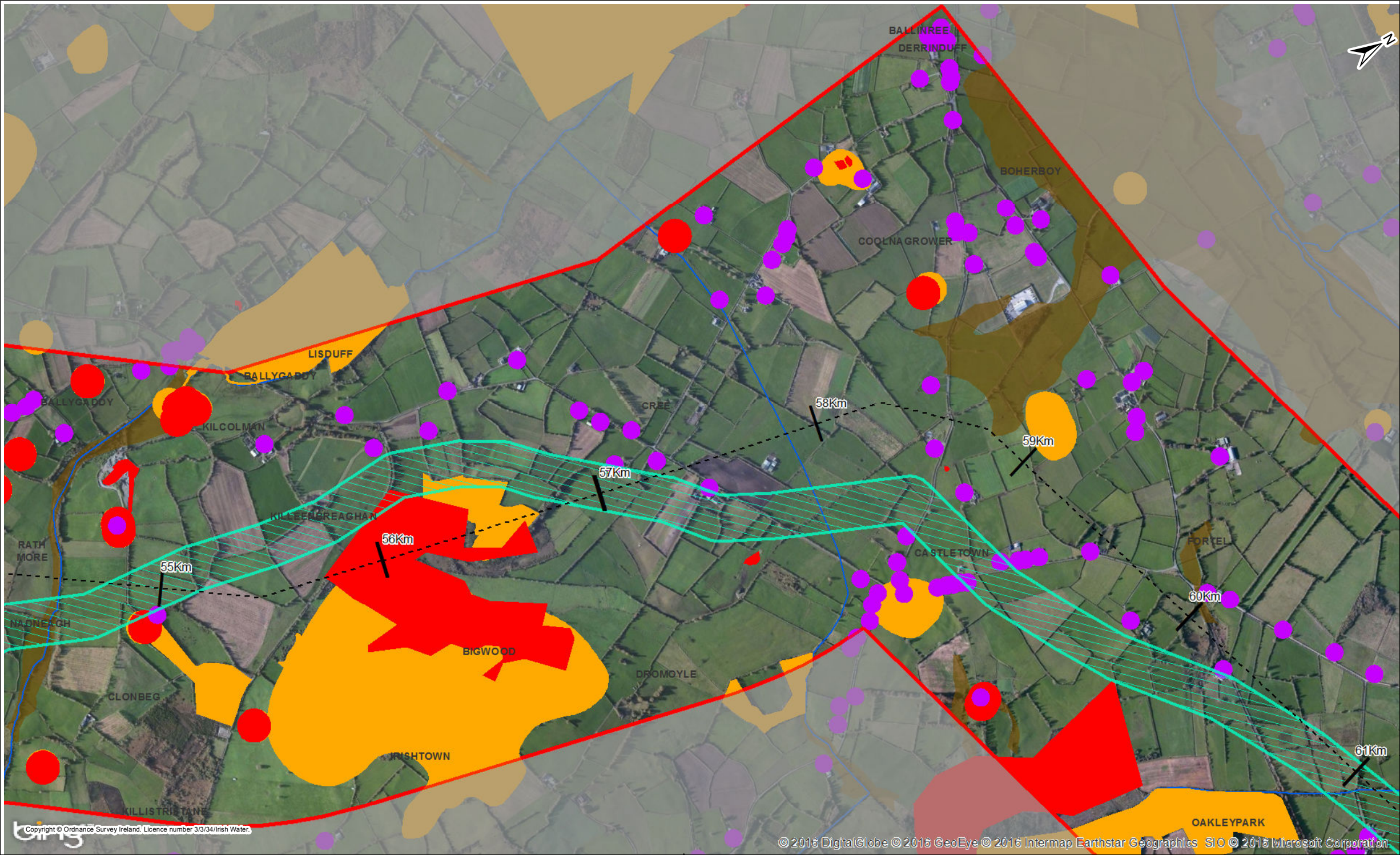
Identification of Preliminary 200m Pipeline Corridor : 50 to 55 km

Drawing Status

For Issue

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Jacobs No.	32105801	Client No.	WSP1
Filepath	C:\GIS\32105801-WSP-DRGIS Tables\WaterReportMaps\FOAR\Constraints\Map\Identification of Preliminary Pipeline Corridor 50-55.mxd		
Drawing No.	32105801-FOAR-011		

This drawing is not to be used in whole or in part other than for the intended purpose and project as defined on this drawing. Refer to the contract for full terms and conditions.



Key

Centreline of Least Constrained Route Corridor

Preliminary 200m Pipeline Corridor

Least Constrained Route Corridor (Generally 2km)

Environmental Constraints

Primary Constraints

Secondary Constraints

Rivers WFD

Technical Constraints

Property Location - Including a 40m Buffer

Poor Ground

Notes :-
Mapping Contains Initial Routing of a Preliminary 200m Pipeline Corridor. This Was Subject to a Detailed Assessment and Revision. The Current Alignment is Shown on Maps 32105801-FOAR-036 to 070

Chainage	55 to 56 km	56 to 57 km	57 to 58 km	58 to 59 km	59 to 60 km
Initial Desktop Assessment of Constraints in Least Constrained Route Corridor (Generally 2km) To Inform Identification of Preliminary 200m Pipeline Corridor	- Properties - poor ground (exposed rock and karst) - National Monuments - Additional habitats - Lisduff Fen SAC - Woodland habitats - Forestry - Landscape classification areas offaly high sensitivy - Native woodland survey - Architectural Conservation Areas Offaly - Groundwater Vulnerabilty Extreme - Groundwater Vulnerabilty Rock at or Near Surface or Karst feature - River berr	- Properties - National Monuments - Poor ground (exposed rock and karst) - Additional habitats - Woodland habitats - Semi natural grasslands - Native woodland survey - Groundwater Vulnerabilty Extreme - Groundwater Vulnerabilty Rock at or Near Surface or Karst feature - River berr	- Properties - Pits and quarries - River north kilcolman - Groundwater Vulnerabilty Extreme - Groundwater Vulnerabilty Rock at or Near Surface or Karst feature	- Properties - National Monuments - Poor ground (exposed rock and karst) - Poor ground (glaciofluvial sands and gravels) - Poor ground (alluvium) - Additional habitats - Pits and quarries - Architectural Conservation Areas Offaly - Groundwater Vulnerabilty Extreme - Groundwater Vulnerabilty Rock at or Near Surface or Karst feature	- Properties - Poor ground (expost rock and karst) - Poor ground (glaciofluvial sands and gravels) - Landscapes - Additional habitats - Groundwater Vulnerabilty Extreme - Groundwater Vulnerabilty Rock at or Near Surface or Karst feature - Designed landscape (demesne)

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MG

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Date

Purpose of revision

Drawn

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Rev'd

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Water Supply Project - Eastern and Midlands Region

Drawing Title

Identification of Preliminary 200m Pipeline Corridor :
55 to 60 km

Drawing Status

For Issue

Scale @A3

1:19,000

DO NOT SCALE

Jacobs No.

32105801

Client No.

WSP1

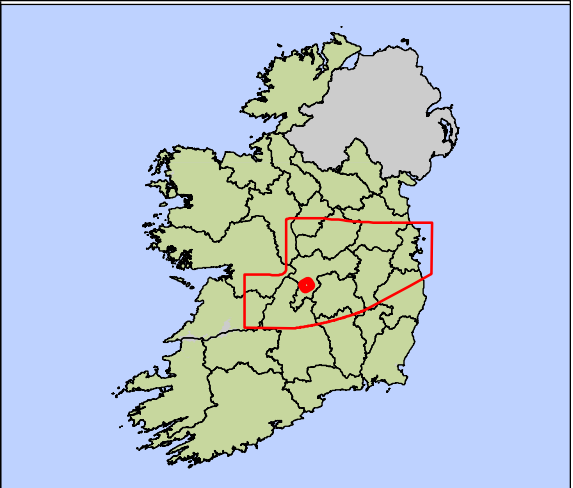
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Drawing No.

32105801-FOAR-012

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Key

Centreline of Least Constrained Route Corridor

Preliminary 200m Pipeline Corridor

Least Constrained Route Corridor
(Generally 2km)

Environmental Constraints

Primary Constraints

Secondary Constraints

Rivers WFD

Technical Constraints

Property Location - Including a 40m Buffer

Poor Ground

Notes :-
Mapping Contains Initial Routing of a Preliminary 200m Pipeline Corridor. This Was Subject to a Detailed Assessment and Revision. The Current Alignment is Shown on Maps 32105801-FOAR-036 to 070

Chainage	60 to 61 km	61 to 62 km	62 to 63 km	63 to 64 km	64 to 65 km
Initial Desktop Assessment of Constraints in Least Constrained Route Corridor (Generally 2km) To Inform Identification of Preliminary 200m Pipeline Corridor	- Properties - Poor ground (glaciofluvial sandsand gravels) - Poor ground (alluvium) - Landscapes - Additional Habitats - Forestry - River kilmaine - Designed landscape (demesne)	- Properties - National Monuments - Poor ground (alluvium) - Landscapes - SMR Zone (Archaeology) - Architectural Conservation AreasOffaly - Clareen stream - River oakleypark - River Kilmaine - Designed landscape (demesne)	- Properties - Poor ground (alluvium) - Landscapes - River Breaghmore	- Properties - National Monuments - Poor ground (alluvium) - Poor ground (exposed rock and karst) - Poor ground (glaciofluvial sandsand gravels) - Poor ground (lake deposits) - Landscapes - Pitsand quarries - Forestry - Architectural Conservation AreasOffaly - Groundwater Vulnerability Extreme - Groundwater Vulnerability Rock at or Near Surface or Karst feature - River camcor - River Breaghmore	- Properties - National Monuments - Poor ground (glaciofluvial sandsand gravels) - Poor ground (alluvium) - Landscapes - Pitsand quarries - Proposed natural heritage area - Forestry - Semi natural grassland - Architectural Conservation AreasOffaly - River Camcor - River Osierbrook - River Breaghmore - R440 regional road - Designed landscape (demesne)

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MG

Rev.

Date

Purpose of revision

Drawn

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Drawing Title

Identification of Preliminary 200m Pipeline Corridor :
60 to 65 km

Drawing Status

For Issue

Scale @A3

1:19,000

DO NOT SCALE

Jacobs No.

32105801

Client No.

WSP1

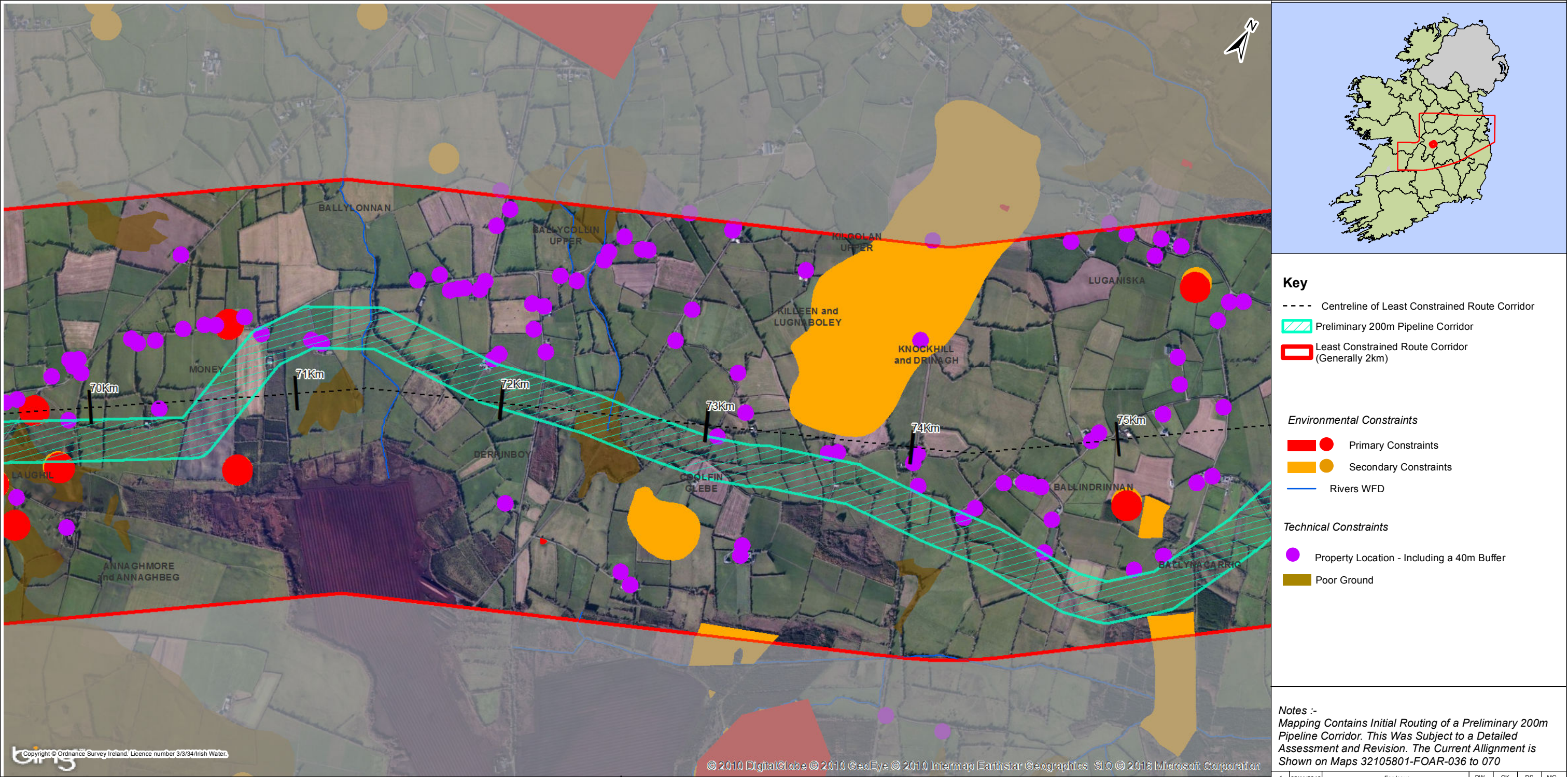
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Drawing No.

32105801-FOAR-013

This drawing is not to be used in whole in or part other than for the intended purpose and project as defined on this drawing. Refer to the contract for full terms and conditions.



Chainage	70 to 71 km	71 to 72 km	72 to 73 km	73 to 74 km	74 to 75 km
Initial Desktop Assessment of Constraints in Least Constrained Route Corridor (Generally 2km) To Inform Identification of Preliminary 200m Pipeline Corridor	- Properties - National Monuments - Poor ground (glaciofluvial sands and gravels) - Poor ground (lake deposits) - Architectural Conservation Areas Offaly	- Properties - Poor ground (glaciofluvial sands and gravels) - Landscapes - River Kyleboher - Designed landscape (demesne)	- Properties - Poor ground (exposed rock and karst) - Poor ground (lake deposits) - Landscapes - Pits and quarries - Groundwater Vulnerability Extreme - Groundwater Vulnerability Rock at or Near Surface or Karst feature - River knockhill - River upper ballycollin - River kilgolan lower	- Properties - Poor ground (exposed rock and karst) - Poor ground (alluvium) - Additional habitats - Forestry - Groundwater Vulnerability Extreme - Groundwater Vulnerability Rock at or Near Surface or Karst feature - River black - River knockhill	- Properties - Poor ground (exposed rock and karst) - Poor ground (alluvium) - Groundwater Vulnerability Extreme - Groundwater Vulnerability Rock at or Near Surface or Karst feature - River black

Key

Centreline of Least Constrained Route Corridor

Preliminary 200m Pipeline Corridor

Least Constrained Route Corridor (Generally 2km)

Environmental Constraints

Primary Constraints

Secondary Constraints

Rivers WFD

Technical Constraints

Property Location - Including a 40m Buffer

Poor Ground

Notes :-

Mapping Contains Initial Routing of a Preliminary 200m Pipeline Corridor. This Was Subject to a Detailed Assessment and Revision. The Current Alignment is Shown on Maps 32105801-FOAR-036 to 070

1	02/11/2016	For Issue	PW	CK	DS	MG
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd

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Project

Water Supply Project - Eastern and Midlands Region

Drawing Title

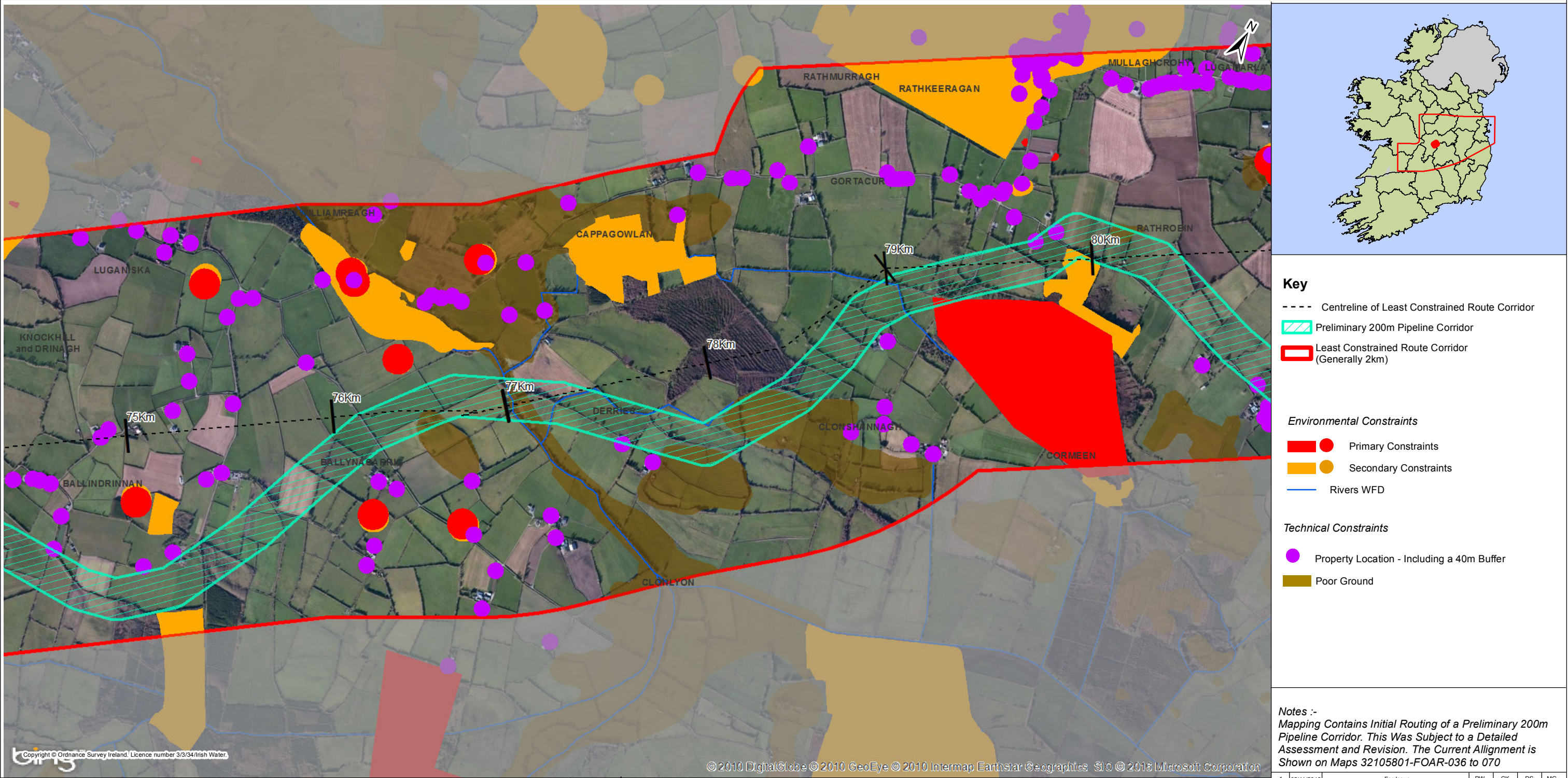
Identification of Preliminary 200m Pipeline Corridor : 70 to 75 km

Drawing Status

For Issue

Scale @A3	1:19,000	DO NOT SCALE	
Jacobs No.	32105801	Client No.	WSP1
Filepath	C:\GIS\32105801 - WSP SRGIS Tables\WaterReportMaps\FOAR\Constraints\Map\Identification of Preliminary Pipeline Corridor 70-75.mxd		
Drawing No.	32105801-FOAR-015		

This drawing is not to be used in whole in or part other than for the intended purpose and project as defined on this drawing. Refer to the contract for full terms and conditions.



Chainage	75 to 76 km	76 to 77 km	77 to 78 km	78 to 79 km	79 to 80 km
Initial Desktop Assessment of Constraints in Least Constrained Route Corridor (Generally 2km) To Inform Identification of Preliminary 200m Pipeline Corridor	- Properties - National Monuments - Forestry - Architectural Conservation AreasOffaly - Groundwater Vulnerability Extreme - Groundwater Vulnerability Rock at or Near Surface or Karst feature - River silver (kicormac)	Properties National Monuments Poor ground (exposed rock and karst) Poor ground (alluvium) Poor ground (glaciofluvial sandsand gravels) Landscapes Forestry Additional habitats Architectural Conservation AreasOffaly Groundwater Vulnerability Rock at or Near Surface or Karst feature Groundwater Vulnerability Extreme River silver Designed landscape (demesne)	Properties Poor ground (glaciofluvial sandsand gravels) Poor ground (alluvium) Landscapes Forestry River silver House derries River gortacur	Properties Poor ground (glaciofluvial sandsand gravels) National Monuments Additional habitats River house derries River gortacur	Properties Poor ground (glaciofluvial sands& gravels) Poor ground (exposed rock and karst) Made ground Poor ground (lake deposits) Additional habitats Pitsand quarries Wastewater treatment plant Woodland habitats Forestry Native woodland survey Groundwater Vulnerability Rock at or Near Surface or Karst feature Groundwater Vulnerability Extreme River soldier'shill River house derries

Key

Centreline of Least Constrained Route Corridor

Preliminary 200m Pipeline Corridor

Least Constrained Route Corridor (Generally 2km)

Environmental Constraints

Primary Constraints

Secondary Constraints

Rivers WFD

Technical Constraints

Property Location - Including a 40m Buffer

Poor Ground

Notes :-

Mapping Contains Initial Routing of a Preliminary 200m Pipeline Corridor. This Was Subject to a Detailed Assessment and Revision. The Current Alignment is Shown on Maps 32105801-FOAR-036 to 070

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For Issue

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Date

Purpose of revision

Drawn

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Project

Water Supply Project - Eastern and Midlands Region

Drawing Title

Identification of Preliminary 200m Pipeline Corridor : 75 to 80 km

Drawing Status

For Issue

Scale @A3

1:19,000

DO NOT SCALE

Jacobs No.

32105801

Client No.

WSP1

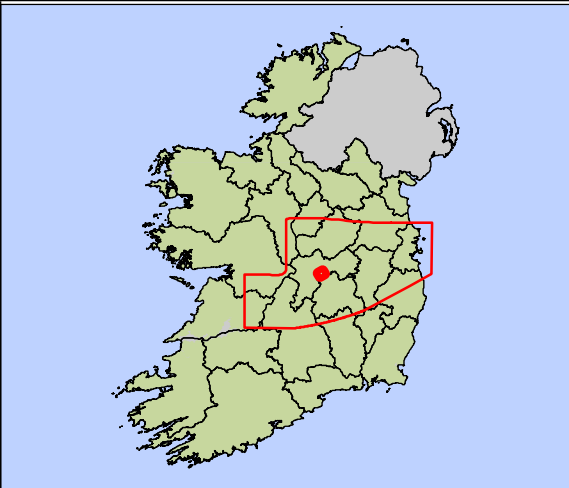
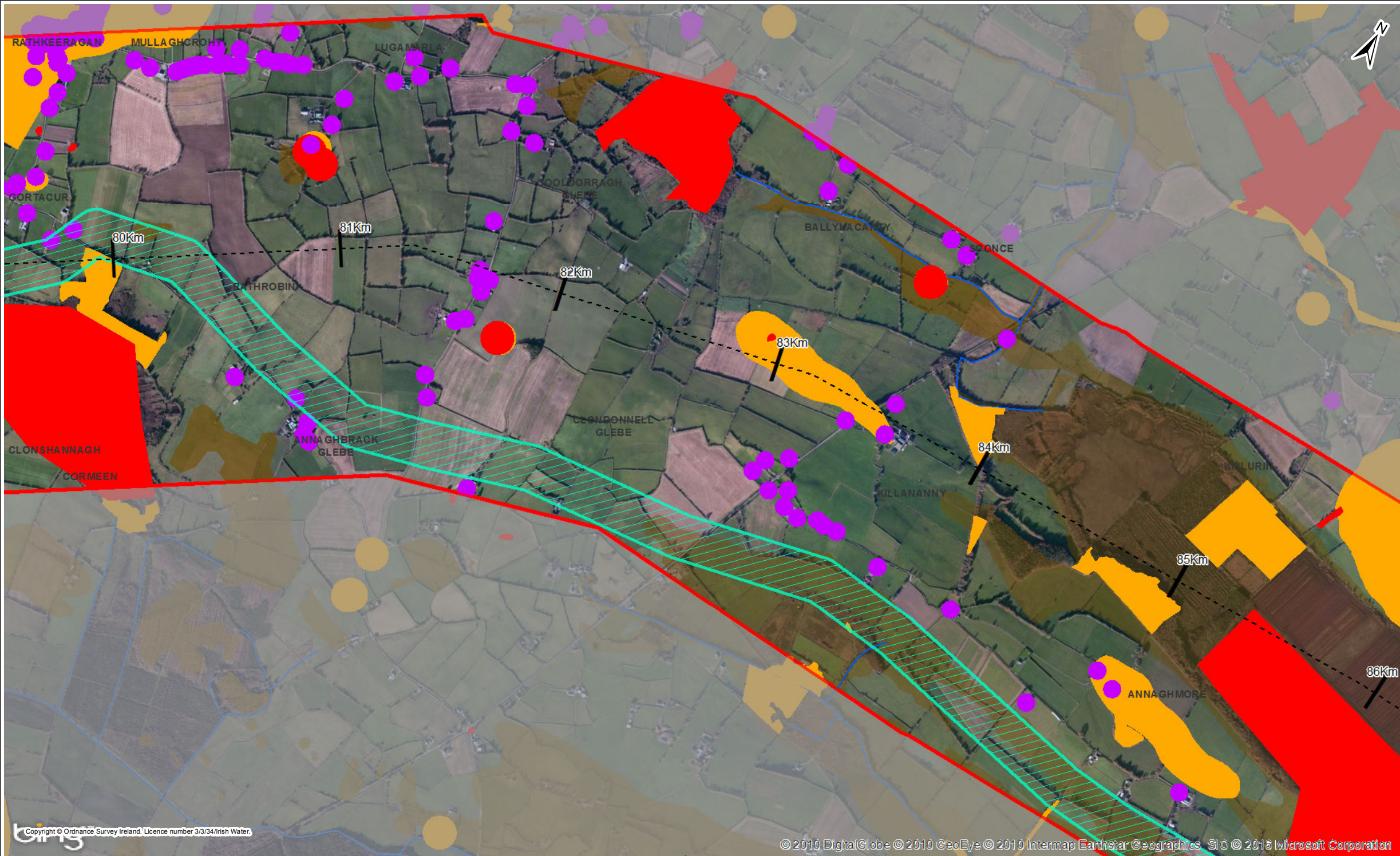
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Drawing No.

32105801-FOAR-016

This drawing is not to be used in whole in or part other than for the intended purpose and project as defined on this drawing. Refer to the contract for full terms and conditions.



- Key
- Centreline of Least Constrained Route Corridor

Preliminary 200m Pipeline Corridor

Least Constrained Route Corridor
(Generally 2km)
- Environmental Constraints

Primary Constraints

Secondary Constraints

Rivers WFD

Technical Constraints

Property Location - Including a 40m Buffer

Poor Ground
- Notes :-
Mapping Contains Initial Routing of a Preliminary 200m Pipeline Corridor. This Was Subject to a Detailed Assessment and Revision. The Current Alignment is Shown on Maps 32105801-FOAR-036 to 070
- | Chainage | 80 to 81 km | 81 to 82 km | 82 to 83 km | 83 to 84 km | 84 to 85 km |
|--|--|--|---|--|---|
| Initial Desktop Assessment of Constraints in Least Constrained Route Corridor (Generally 2km) To Inform Identification of Preliminary 200m Pipeline Corridor | <div>- Properties</div> <div>- Poor ground (glaciofluvial sands and gravels)</div> <div>- Poor ground (lake deposits)</div> <div>- Poor ground (alluvium)</div> <div>- Additional habitats</div> <div>- Woodland habitats</div> <div>- SMR Zone (Archaeology)</div> <div>- Native woodland survey</div> <div>- Architectural Conservation Areas Offaly</div> <div>- Groundwater Vulnerabilty Extreme</div> | <div>- Properties</div> <div>- National Monuments</div> <div>- Poor ground (lake deposits)</div> <div>- Poor ground (alluvium)</div> <div>- Pits and quarries</div> <div>- SMR Zone (Archaeology)</div> <div>- Architectural Conservation Areas Offaly</div> | <div>- Properties</div> <div>- National monuments</div> <div>- Poor ground (bogs)</div> <div>- Poor ground (exposed rock and karst)</div> <div>- Poor ground (alluvium)</div> <div>- Additional hbitats</div> <div>- Pits and quarries</div> <div>- Groundwater Vulnerabilty Rock at or Near Surface or Karst feature</div> <div>- Groundwater Vulnerabilty Extreme</div> <div>- River Ballynacanty</div> | <div>- Properties</div> <div>- Poor ground (bogs)</div> <div>- Poor ground (rock and karst)</div> <div>- Poor ground (alluvium)</div> <div>- National Monuments</div> <div>- Woodland habiats</div> <div>- Forestry</div> <div>- Coillte forest property (killeigh)</div> <div>- Native woodland survey</div> <div>- Architectural Conservation Areas Offaly</div> <div>- Groundwater Vulnerabilty Rock at or Near Surface or Karst feature</div> <div>- Groundwater Vulnerabilty Extreme</div> <div>- River Killurin</div> <div>- R421regional road</div> | <div>- Properties</div> <div>- Poor ground (exposed rock and karst)</div> <div>- Woodland habitats</div> <div>- Forestry</div> <div>- Coillte forest property</div> <div>- Native woodland survey</div> <div>- Groundwater Vulnerabilty Rock at or Near Surface or Karst feature</div> <div>- Groundwater Vulnerabilty Extreme</div> <div>-River killananny</div> |
- 1

02/11/2016

For Issue

PW

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Rev.

Date

Purpose of revision

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Client

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Project

Water Supply Project - Eastern and Midlands Region

Drawing Title

Identification of Preliminary 200m Pipeline Corridor : 80 to 85 km

Drawing Status

For Issue

Scale @A3

1:19,000

DO NOT SCALE

Jacobs No.

32105801

Client No.

WSP1

Filepath

C:\GIS\32105801 - WSP SR GIS Tables\WaterReportMaps\FOAR\Constraints\Map\Identification of Preliminary Pipeline Corridor 80-85.mxd

Drawing No.

32105801-FOAR-017

This drawing is not to be used in whole in or part other than for the intended purpose and project as defined on this drawing. Refer to the contract for full terms and conditions.



Chainage	85 to 86 km	86 to 87 km	87 to 88 km	88 to 89 km	89 to 90 km
Initial Desktop Assessment of Constraints in Least Constrained Route Corridor (Generally 2km) To Inform Identification of Preliminary 200m Pipeline Corridor	- Properties - National Monuments - Poor ground (bogs) - Poor ground (exposed rock and karst) - Additional habitats - Pits and quarries - Woodland habitats - Forestry - Groundwater Vulnerabilty Rock at or Near Surface or Karst feature - Groundwater Vulnerabilty Extreme	- Properties - Poor ground (bogs) - Poor ground (exposed rock and karst) - Poor ground (glaciofluvial sands and gravels) - Additional habitats - Groundwater Vulnerabilty Rock at or Near Surface or Karst feature - Groundwater Vulnerabilty Extreme	- Properties - Poor ground (bogs) - Poor ground (alluvium) - Poor ground (glaciofluvial sands and gravels) - Pits and quarries	- Properties - National Monuments - Poor ground (bogs) - Poor ground (alluvium) - Poor ground (glaciofluvial sands and gravels) - Poor ground (lake deposits) -Pits and quarries - Forestry - SMR Zone (Archaeology) - Architectural Conservation Areas Offaly - River clodiagh	- Properties - National Monuments - Poor ground (bogs) - Poor ground (glaciofluvial sands and gravels) - Poor ground (lake deposits) - Architectural Conservation Areas Offaly - River clodiagh

Key

Centreline of Least Constrained Route Corridor

Preliminary 200m Pipeline Corridor

Least Constrained Route Corridor (Generally 2km)

Environmental Constraints

Primary Constraints

Secondary Constraints

Rivers WFD

Technical Constraints

Property Location - Including a 40m Buffer

Poor Ground

Notes :-

Mapping Contains Initial Routing of a Preliminary 200m Pipeline Corridor. This Was Subject to a Detailed Assessment and Revision. The Current Alignment is Shown on Maps 32105801-FOAR-036 to 070

1	02/11/2016	For Issue	PW	CK	DS	MG
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd

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Client

UISCE

CLEAN - RISKY WATER

Project

Water Supply Project - Eastern and Midlands Region

Drawing Title

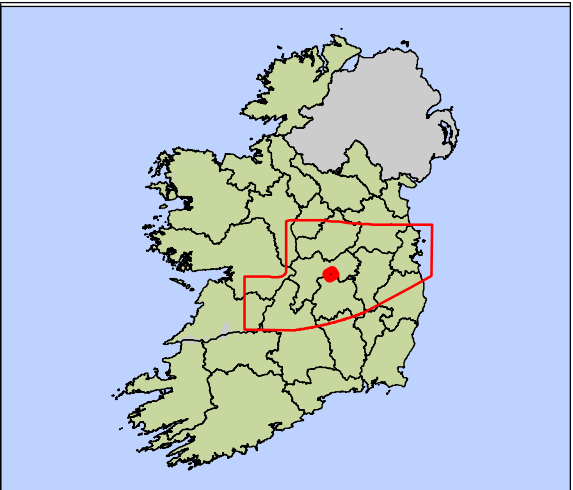
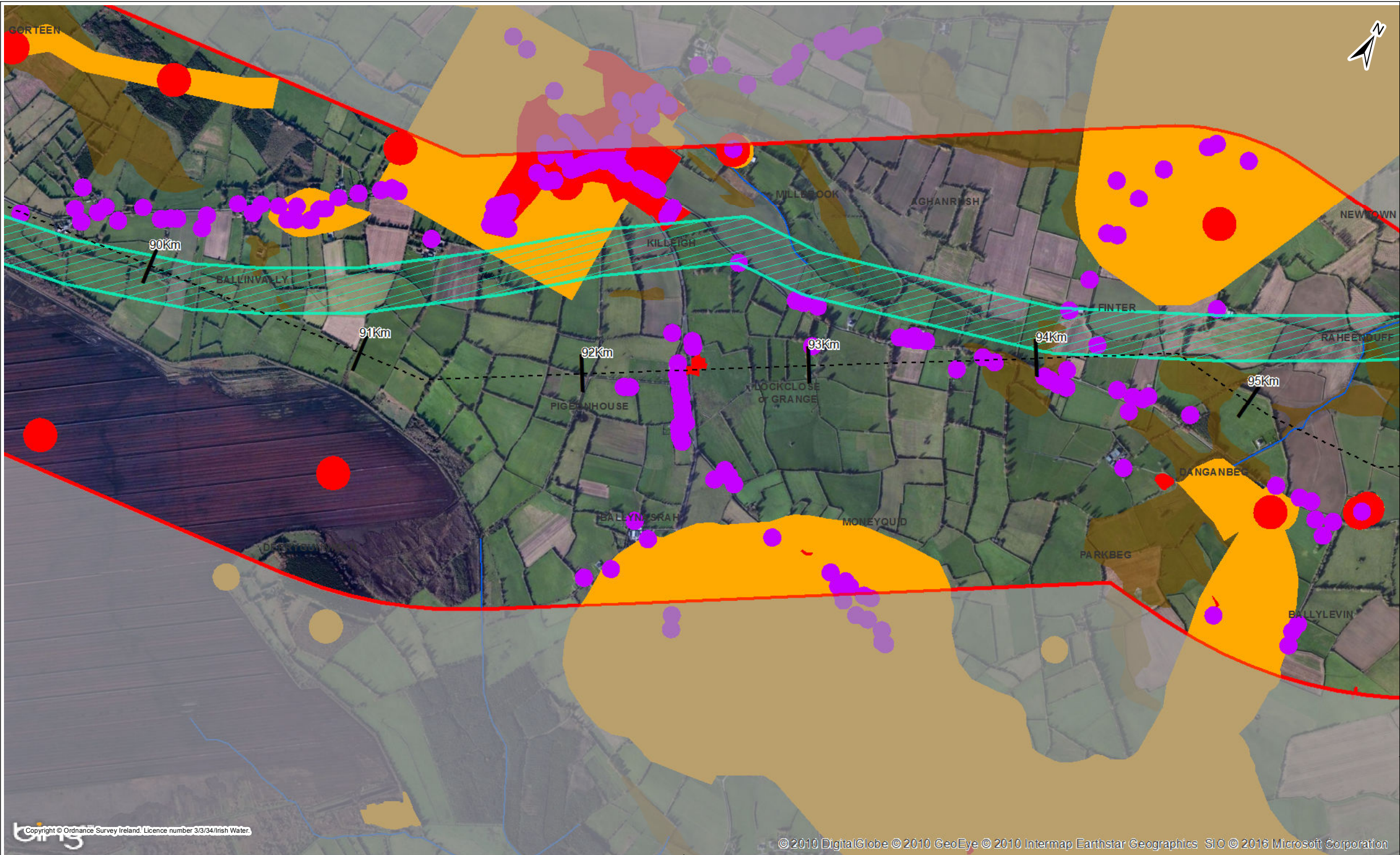
Identification of Preliminary 200m Pipeline Corridor : 85 to 90 km

Drawing Status

For Issue

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Jacobs No.	32105801	Client No.	WSP1
Filepath	C:\GIS\32105801 - WSP-DRGIS Tables\WaterReport\Maps\FOAR\Constraints\Map\Identification of Preliminary Pipeline Corridor @ 85-90.mxd		
Drawing No.	32105801-FOAR-018		

This drawing is not to be used in whole in or part other than for the intended purpose and project as defined on this drawing. Refer to the contract for full terms and conditions.



Key

Centreline of Least Constrained Route Corridor

Preliminary 200m Pipeline Corridor

Least Constrained Route Corridor
(Generally 2km)

Environmental ConstraintsPrimary ConstraintsSecondary ConstraintsRivers WFD**Technical Constraints**Property Location - Including a 40m BufferPoor Ground

Notes :-
Mapping Contains Initial Routing of a Preliminary 200m Pipeline Corridor. This Was Subject to a Detailed Assessment and Revision. The Current Alignment is Shown on Maps 32105801-FOAR-036 to 070

Chainage	90 to 91 km	91 to 92 km	92 to 93 km	93 to 94 km	94 to 95 km
Initial Desktop Assessment of Constraints in Least Constrained Route Corridor (Generally 2km) To Inform Identification of Preliminary 200m Pipeline Corridor	Properties National Monuments Poor ground (bogs) Poor ground (exposed rock and karst) Poor ground (glacifluvial sands and gravels) Poor ground (lake deposits) SMR Zone (Archaeology) Architectural Conservation Areas of Value Groundwater Vulnerability Rock at or Near Surface or Karst feature Groundwater Vulnerability Extreme	Properties National Monuments Made ground Landscapes Settlements SMR Zone (Archaeology) Architectural Conservation Areas of Value Groundwater Vulnerability Rock at or Near Surface or Karst feature Groundwater Vulnerability Extreme River Pigeenhouse	Properties National Monuments Poor ground (bogs) Landscapes Poor ground (exposed rock and karst) Poor ground (alluvium) Poor ground (glacifluvial sands and gravels) Landscapes Settlements Pits and quarries SMR Zone (Archaeology) Architectural Conservation Areas of Value Groundwater Vulnerability Rock at or Near Surface or Karst feature Groundwater Vulnerability Extreme High stream N80 national road	Properties Poor ground (bogs) Poor ground (exposed rock and karst) Poor ground (alluvium) Poor ground (glacifluvial sands and gravels) Landscapes Groundwater Vulnerability Rock at or Near Surface or Karst feature Groundwater Vulnerability Extreme	Properties National Monuments Poor ground (bogs) Poor ground (alluvium) Poor ground (glacifluvial sands and gravels) Landscapes Pits and quarries Special protection area Forestry Source protection areas Architectural Conservation Areas of Value River Finter Designed landscape (demesne)

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For Issue

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MG

Rev.

Date

Purpose of revision

Drawn

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Project

Water Supply Project - Eastern and Midlands Region

Drawing Title

Identification of Preliminary 200m Pipeline Corridor : 90 to 95 km

Drawing Status

For Issue

Scale @A3

1:19,000

DO NOT SCALE

Jacobs No.

32105801

Client No.

WSP1

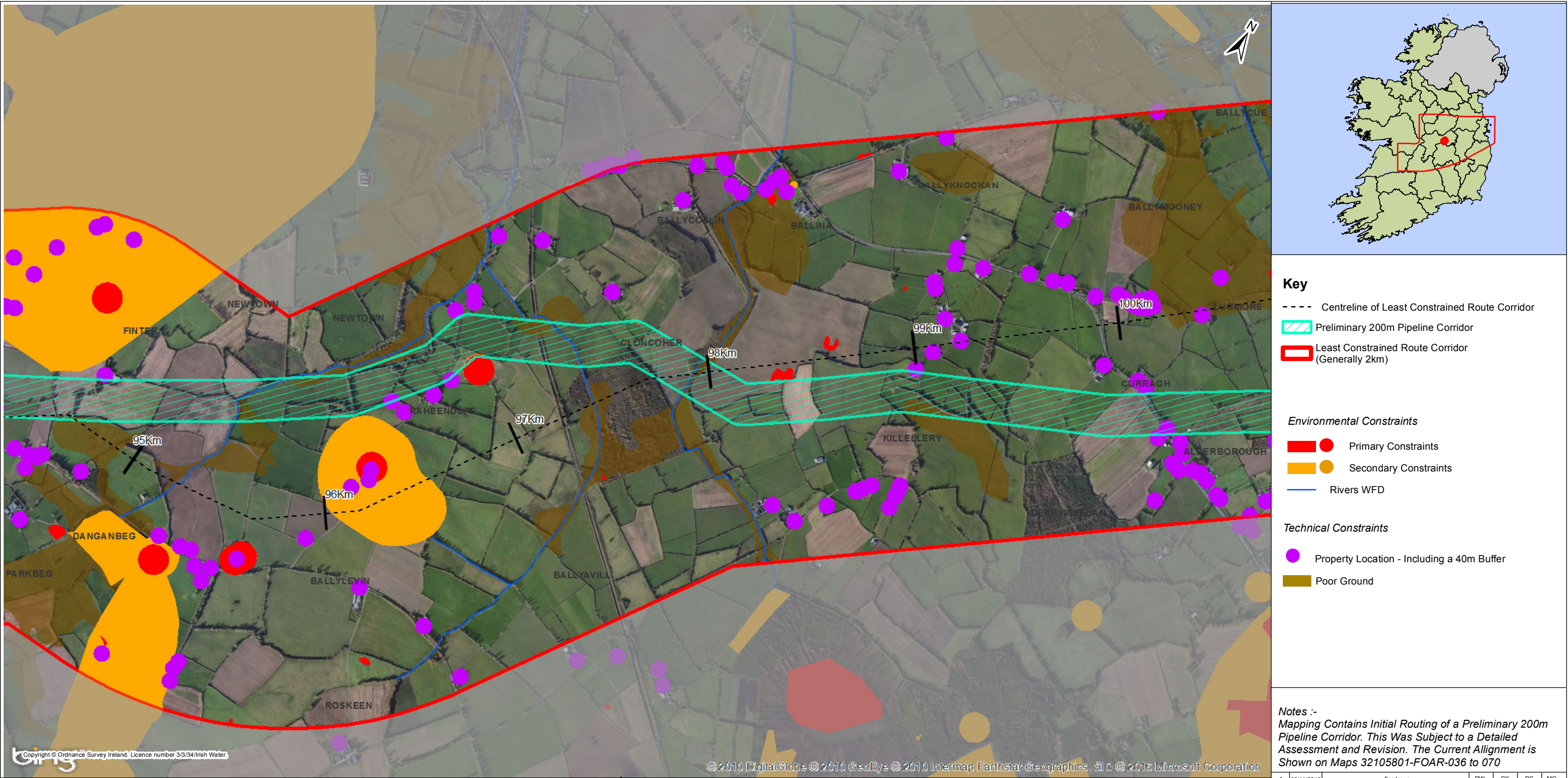
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Drawing No.

32105801-FOAR-019

This drawing is not to be used in whole or in part other than for the intended purpose and project as defined on this drawing. Refer to the contract for full terms and conditions.



Chainage	95 to 96 km	96 to 97 km	97 to 98 km	98 to 99 km	99 to 100 km
Initial Desktop Assessment of Constraints in Least Constrained Route Corridor (Generally 2km) To Inform Identification of Preliminary 200m Pipeline Corridor	- Properties - National Monuments - Poor ground (alluvium) - Poor ground (glaciofluvial sandsand gravels) - Poor ground (lake deposits) - Landscapes - Pitsand quarries - Special area protection - Forestry - Source protection areas - Architectural Conservation AreasOffaly - River finter - Groundwater Vulnerabilty Extreme	- Properties - National Monuments - Poor ground (exposed rock and karst) - Poor ground (alluvium) - Poor ground (glaciofluvial sandsand gravels) - Landscapes - Pitsand quarries - SMR Zone (Archaeology) - Architectural Conservation AreasOffaly - Groundwater Vulnerabilty Rock at or Near Surface or Karst feature - Groundwater Vulnerabilty Extreme - River finter - River meelaghans - River raheenduff - Designed landscape (demesne)	- Properties - Poor ground (alluvium) - Poor ground (lake deposits) - River Annagharvey - River meelaghans - National rail line	- Properties - Poor ground (alluvium) - Poor ground (glaciofluvial sandsand gravels) - Poor ground (lake deposits) - Pitsand quarries - River annagharvey - R420 regional road	- Properties - Poor ground (glaciofluvial sandsand gravels) - Poor ground (lake deposits) - R420 regional road

1	02/11/2016	For Issue	PW	CK	DS	MG
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	App'd

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Client

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Uisce Éireann - Irish Water

Project

Water Supply Project - Eastern and Midlands Region

Drawing Title

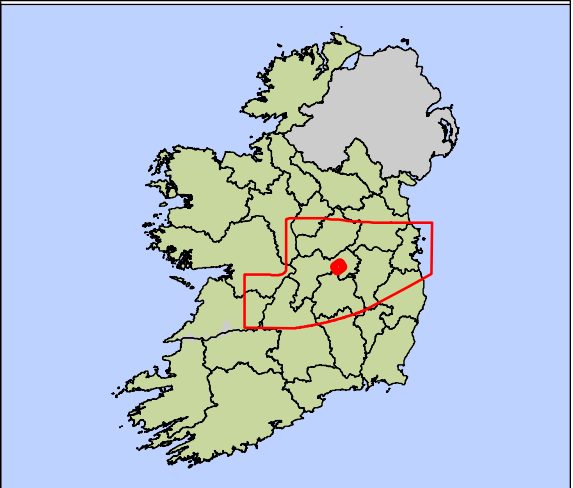
Identification of Preliminary 200m Pipeline Corridor : 95 to 100 km

Drawing Status

For Issue

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Drawing No.	32105801-FOAR-020		

This drawing is not to be used in whole in or part other than for the intended purpose and project as defined on this drawing. Refer to the contract for full terms and conditions.



Key

Centreline of Least Constrained Route Corridor

Preliminary 200m Pipeline Corridor

Least Constrained Route Corridor
(Generally 2km)

Environmental ConstraintsPrimary ConstraintsSecondary ConstraintsRivers WFD**Technical Constraints**Property Location - Including a 40m BufferPoor Ground

Notes :-
Mapping Contains Initial Routing of a Preliminary 200m Pipeline Corridor. This Was Subject to a Detailed Assessment and Revision. The Current Alignment is Shown on Maps 32105801-FOAR-036 to 070

Chainage	100 to 101 km	101 to 102 km	102 to 103 km	103 to 104 km	104 to 105 km
Initial Desktop Assessment of Constraints in Least Constrained Route Corridor (Generally 2km) To Inform Identification of Preliminary 200m Pipeline Corridor	- Properties - Poor ground (glaciofluvial sands and gravels) - Landscapes - Pits and quarries - Landscape classification areas offaly high sensitivity - River Tullamore - R420 regional road - Designed landscape (demesne)	- Properties - Poor ground (alluvium) - Poor ground (glaciofluvial sands and gravels) - Settlements - Special protection area - Landscape classification areas offaly high sensitivity - Source protection area - River Tullamore	- Properties - Poor ground (alluvium) - Poor ground (glaciofluvial sands and gravels) - River Tullamore	- Properties - National Monuments - Groundwater Vulnerabilty Rock at or Near Surface or Karst feature - Groundwater Vulnerabilty Extreme - Poor ground (exposed rock and karst) - Pits and quarries	- Properties - National Monuments - Poor ground (exposed rock and karst) - Landscapes - Groundwater Vulnerabilty Rock at or Near Surface or Karst feature - Groundwater Vulnerabilty Extreme - River rathfeston

1	02/11/2016	For Issue	PW	CK	DS	MG
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd

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Client

UISCE
Uisce Éireann - Irish Water

Project

Water Supply Project - Eastern and Midlands Region

Drawing Title

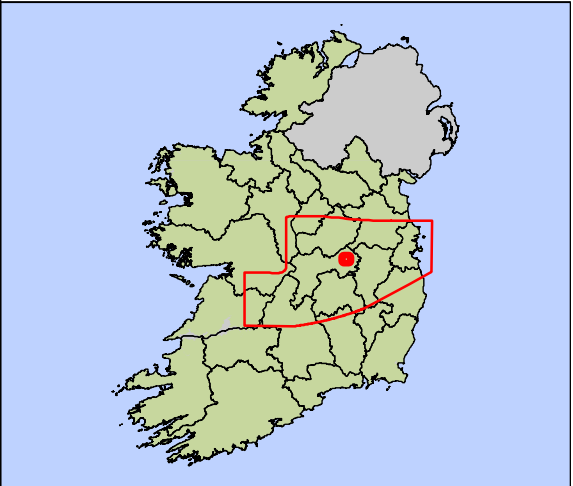
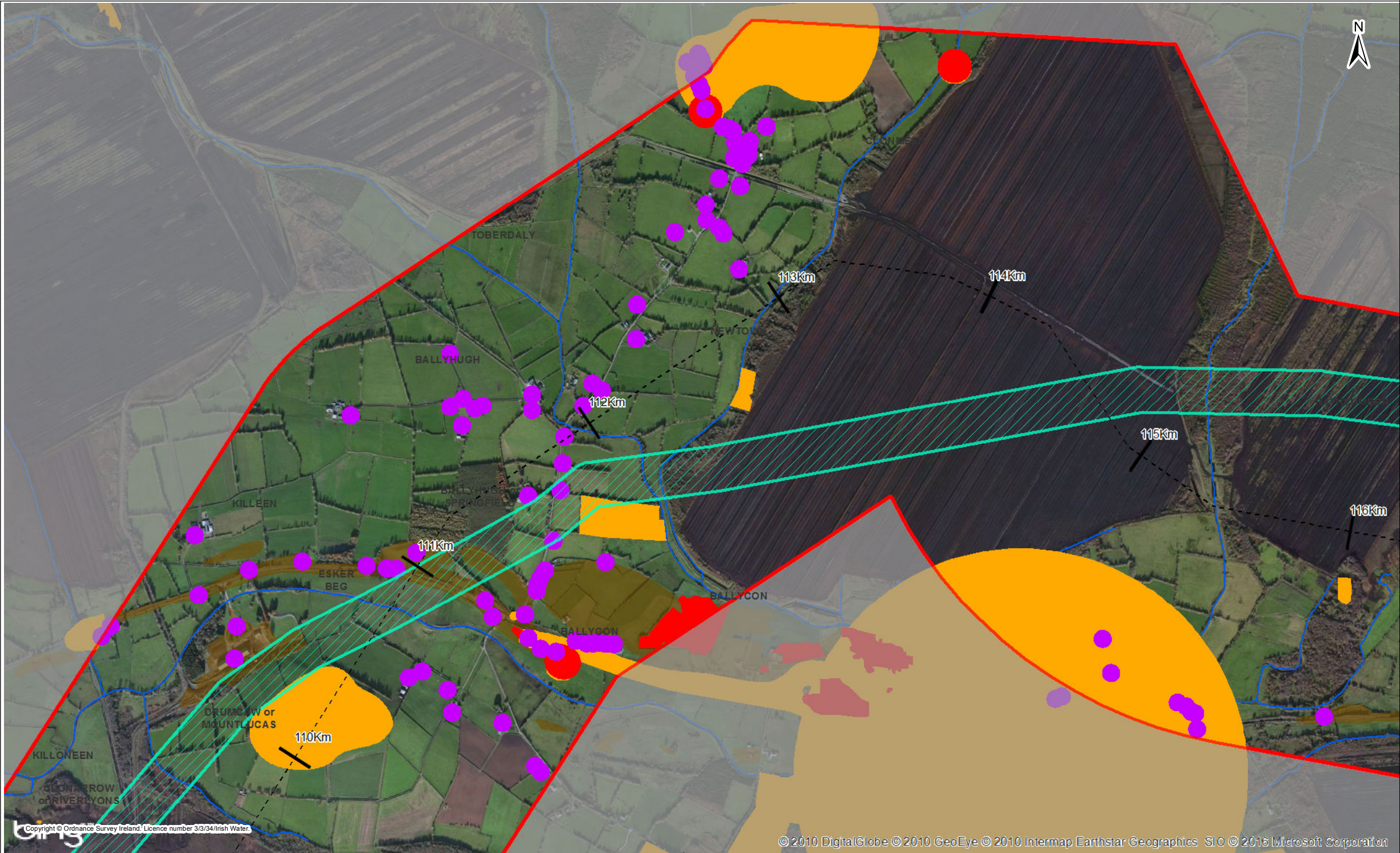
Identification of Preliminary 200m Pipeline Corridor : 100 to 105 km

Drawing Status

For Issue

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Drawing No.	32105801-FOAR-021		

This drawing is not to be used in whole in or part other than for the intended purpose and project as defined on this drawing. Refer to the contract for full terms and conditions.



Key

Centreline of Least Constrained Route Corridor

Preliminary 200m Pipeline Corridor

Least Constrained Route Corridor
(Generally 2km)

Environmental Constraints

Primary Constraints

Secondary Constraints

Rivers WFD

Technical Constraints

Property Location - Including a 40m Buffer

Poor Ground

Notes :-
Mapping Contains Initial Routing of a Preliminary 200m Pipeline Corridor. This Was Subject to a Detailed Assessment and Revision. The Current Alignment is Shown on Maps 32105801-FOAR-036 to 070

Chainage	110 to 111 km	111 to 112 km	112 to 113 km	113 to 114 km	114 to 115 km
Initial Desktop Assessment of Constraints in Least Constrained Route Corridor (Generally 2km) To Inform Identification of Preliminary 200m Pipeline Corridor	- Properties - Made ground - Poor ground (exposed rock and karst) - Poor ground (glaciofluvial sands and gravels) - Landscapes - Groundwater Vulnerability Rock at or Near Surface or Karst feature - Groundwater Vulnerability Extreme - River daingean - R402 & R400 regional road - Designed landscape (demesne)	- Properties - National Monuments - Pits and quarries - Poor ground (glaciofluvial sands and gravels) - Landscapes - Forestry - SMR Zone (Archaeology) - Landscape classification areas offaly high sensitivity - River daingean - River esker - R402 & R400 regional road - Bog remnant (annex I priority habitat) - Designed landscape (demesne)	- Properties - National Monuments - Poor ground (glaciofluvial sands and gravels) - Landscapes - Pits and quarries - Forestry - SMR Zone (Archaeology) - Landscape classification areas offaly high sensitivity - Groundwater Vulnerability Rock at or Near Surface or Karst feature - Groundwater Vulnerability Extreme - River rathcobican - River esker - R402 & R400 regional road - Designed landscape (demesne)	- National Monuments - Poor ground (exposed rock and karst) - Groundwater Vulnerability Rock at or Near Surface or Karst feature - Groundwater Vulnerability Extreme - SMR Zone (Archaeology) - Architectural Conservation Areas Offaly - River rathcobican - Bog remnant, semi-natural woodland and large peatland area	- Properties - National Monuments - Poor ground (glaciofluvial sands and gravels) - Geological heritage sites - Landscape classification areas offaly high sensitivity - River esker - Designed landscape (demesne) - Bog remnant, semi-natural woodland and large peatland area

1

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For Issue

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MG

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Date

Purpose of revision

Drawn

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WATER

Project

Water Supply Project - Eastern and Midlands Region

Drawing Title

Identification of Preliminary 200m Pipeline Corridor : 110 to 115 km

Drawing Status

For Issue

Scale @A3

1:19,000

DO NOT SCALE

Jacobs No.

32105801

Client No.

WSP1

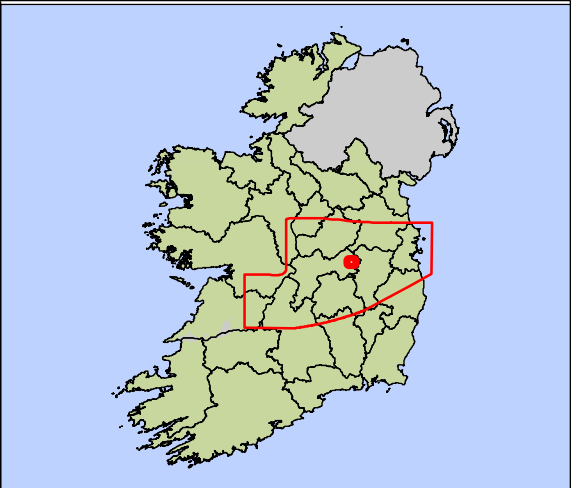
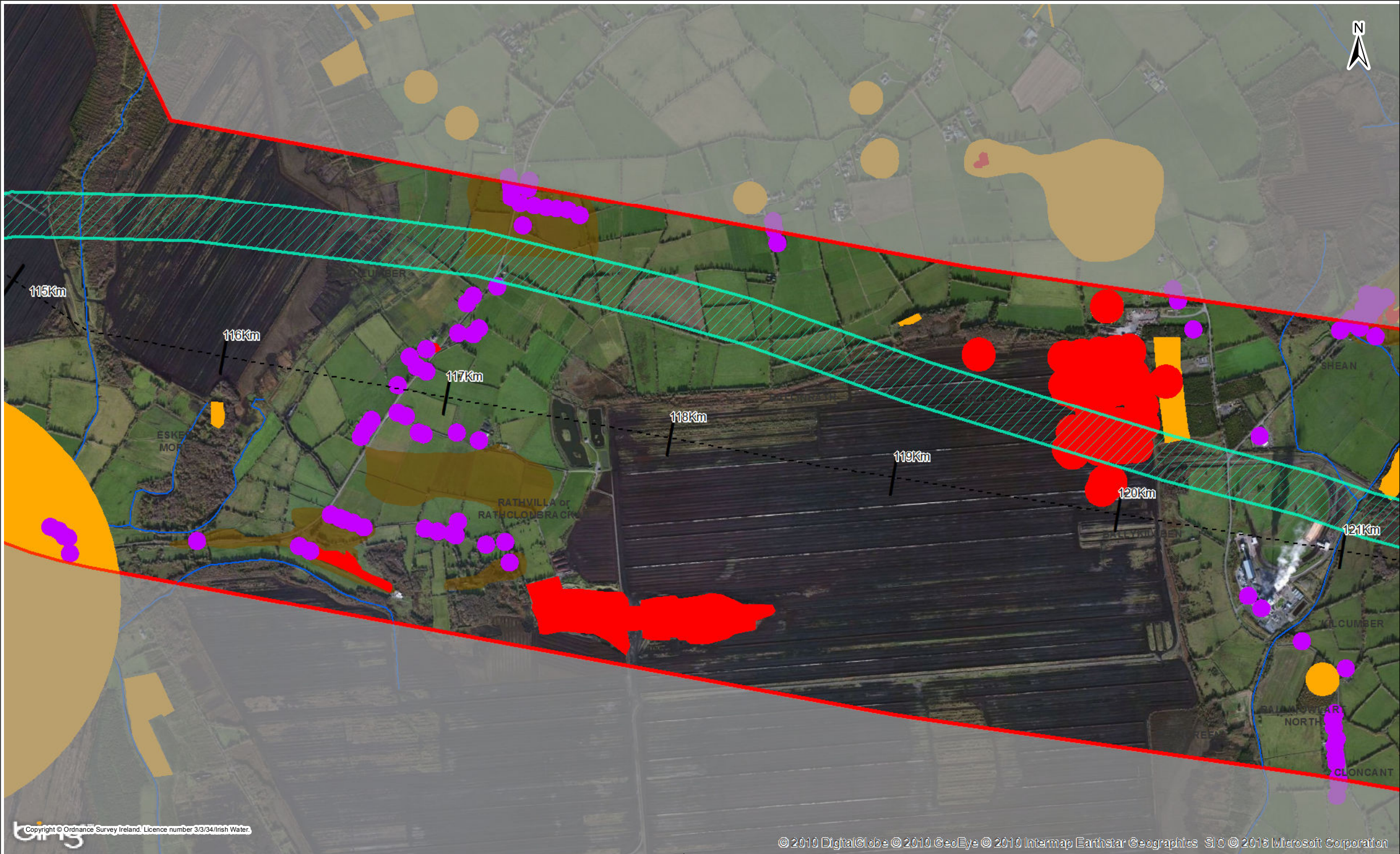
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Drawing No.

32105801-FOAR-023

This drawing is not to be used in whole in or part other than for the intended purpose and project as defined on this drawing. Refer to the contract for full terms and conditions.



Key

Centreline of Least Constrained Route Corridor

Preliminary 200m Pipeline Corridor

Least Constrained Route Corridor
(Generally 2km)

Environmental Constraints

Primary Constraints

Secondary Constraints

Rivers WFD

Technical Constraints

Property Location - Including a 40m Buffer

Poor Ground

Notes :-
Mapping Contains Initial Routing of a Preliminary 200m Pipeline Corridor. This Was Subject to a Detailed Assessment and Revision. The Current Alignment is Shown on Maps 32105801-FOAR-036 to 070

Chainage	115 to 116 km	116 to 117 km	117 to 118 km	118 to 119 km	119 to 120 km
Initial Desktop Assessment of Constraints in Least Constrained Route Corridor (Generally 2km) To Inform Identification of Preliminary 200m Pipeline Corridor	- Properties - Poor ground (glaciofluvial sands and gravels) - Geological heritage sites - Forestry - Landscape classification areas offaly high sensitivity - River esker - River leitrim 14 - Bog remnant, semi-natural woodland and large peatland area	- Properties - Forestry - Poor ground (alluvium) - Poor ground (glaciofluvial sands and gravels) - Poor ground (bogs) - Pits and quarries - River rathlumber - River rathvilla - R402 regional road	- Properties - Poor ground (glaciofluvial sands and gravels) - Pits and quarries - R402 regional road	- Properties - Pits and quarries - Bog remnant	- National Monuments - Forestry - SMR Zone (Archaeology) - Architectural Conservation Areas Offaly - Bog remnant

1	02/11/2016	For Issue	PW	CK	DS	MG
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd

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Project

Water Supply Project - Eastern and Midlands Region

Drawing Title

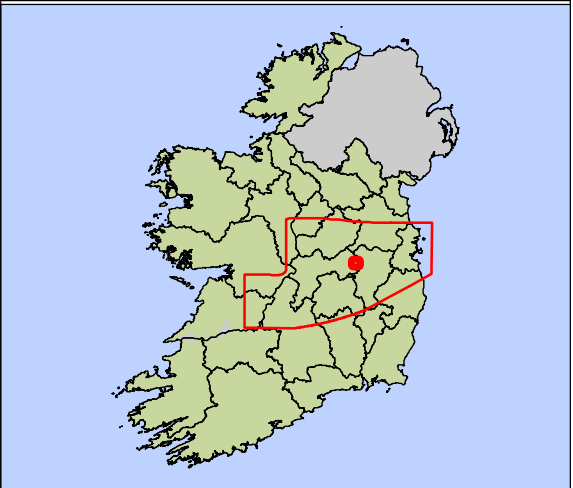
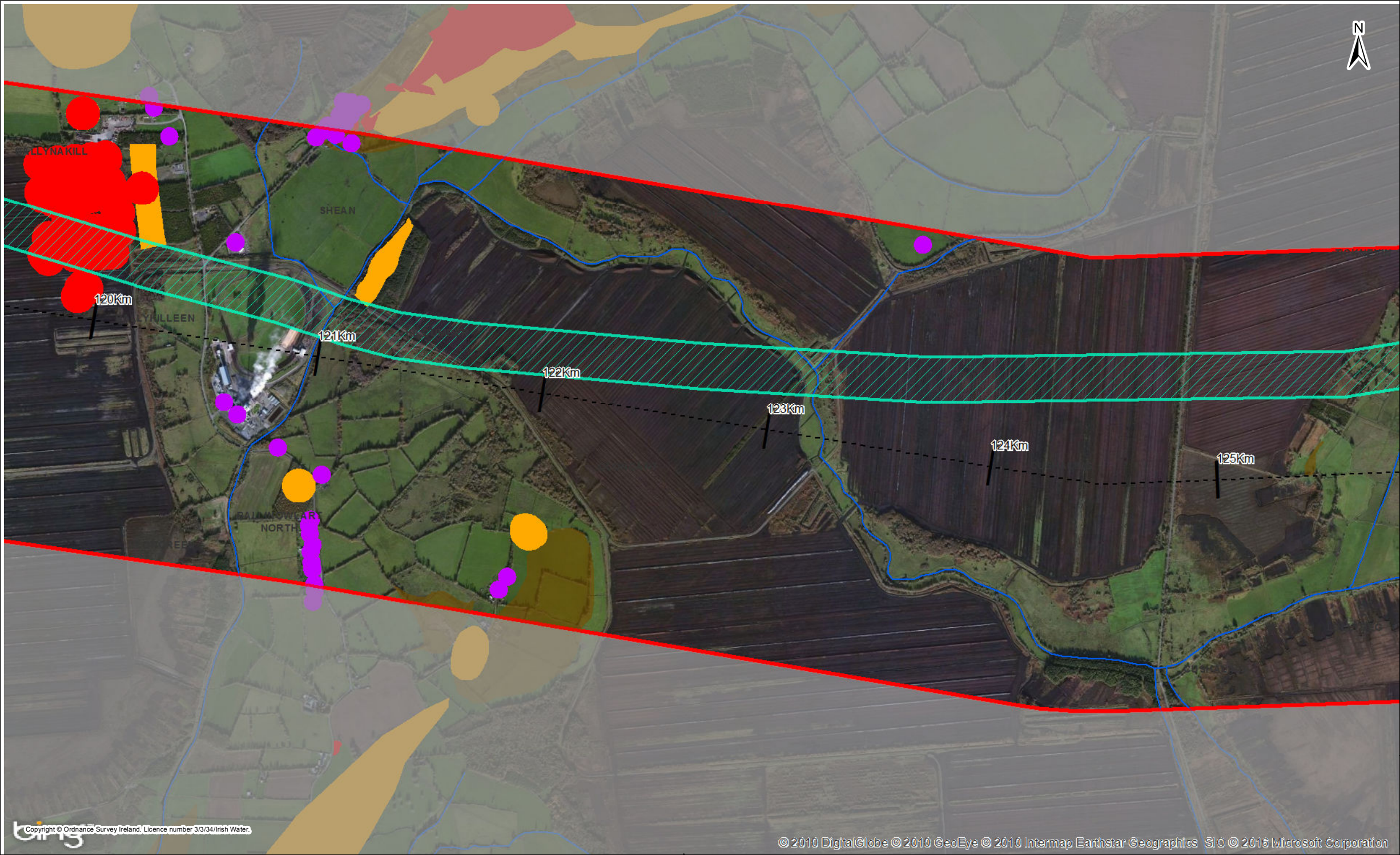
Identification of Preliminary 200m Pipeline Corridor :
115 to 120 km

Drawing Status

For Issue

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Drawing No. 32105801-FOAR-024			

This drawing is not to be used in whole in or part other than for the intended purpose and project as defined on this drawing. Refer to the contract for full terms and conditions.



Key

Centreline of Least Constrained Route Corridor

Preliminary 200m Pipeline Corridor

Least Constrained Route Corridor
(Generally 2km)

Environmental Constraints

Primary Constraints

Secondary Constraints

Rivers WFD

Technical Constraints

Property Location - Including a 40m Buffer

Poor Ground

Notes :-

Mapping Contains Initial Routing of a Preliminary 200m Pipeline Corridor. This Was Subject to a Detailed Assessment and Revision. The Current Alignment is Shown on Maps 32105801-FOAR-036 to 070

1	02/11/2016	For Issue	PW	CK	DS	MG
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	App'd

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Water Supply Project - Eastern and Midlands Region

Drawing Title

Identification of Preliminary 200m Pipeline Corridor : 120 to 125 km

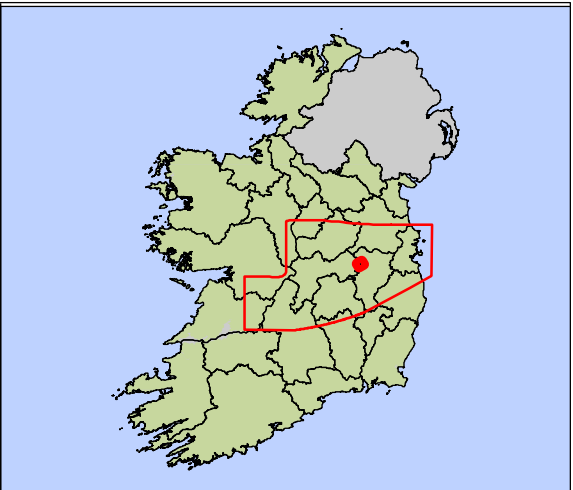
Drawing Status

For Issue

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Jacobs No.	32105801	Client No.	WSP1
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Drawing No. 32105801-FOAR-025			

This drawing is not to be used in whole in or part other than for the intended purpose and project as defined on this drawing. Refer to the contract for full terms and conditions.

Chainage	120 to 121 km	121 to 122 km	122 to 123 km	123 to 124 km	124 to 125 km
Initial Desktop Assessment of Constraints in Least Constrained Route Corridor (Generally 2km) To Inform Identification of Preliminary 200m Pipeline Corridor	-Properties - National Monuments - Poor ground (glaciofluvial sands and gravels) - Architectural Conservation Areas Offaly - River ballykilleen - River figile -R401 regional road - Edenderry Power Station	- Properties - Poor ground (alluvium) - Poor ground (glaciofluvial sands and gravels) - Forestry - Architectural Conservation Areas Offaly - Groundwater Vulnerabilty Extreme - River figile - River shean 14 - Peat production zone	- Poor ground (glaciofluvial sands and gravels) - Groundwater Vulnerabilty Extreme - River figile - Peat production zone	- Properties - River cloncant - River figile - Peat production zone	- River figile - River lullybeg - River clonbrown - Peat production zone



Key

Centreline of Least Constrained Route Corridor

Preliminary 200m Pipeline Corridor

Least Constrained Route Corridor
(Generally 2km)

Environmental Constraints

Primary Constraints

Secondary Constraints

Rivers WFD

Technical Constraints

Property Location - Including a 40m Buffer

Poor Ground

Notes :-
Mapping Contains Initial Routing of a Preliminary 200m Pipeline Corridor. This Was Subject to a Detailed Assessment and Revision. The Current Alignment is Shown on Maps 32105801-FOAR-036 to 070

Chainage	125 to 126 km	126 to 127 km	127 to 128 km	128 to 129 km	129 to 130 km
Initial Desktop Assessment of Constraints in Least Constrained Route Corridor (Generally 2km) To Inform Identification of Preliminary 200m Pipeline Corridor	- Poor ground (glaciofluvial sands and gravels) - River lullymore east - River figile	- River figile - River lullymore east - Bog remnant Annex I priority Habitat	- Poor ground (alluvium) - Forestry - River figile	- Poor ground (alluvium) - Forestry - River figile	- Properties - Poor ground (alluvium) - River figile - River abbeylough

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02/11/2016

For Issue

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MG

Rev.

Date

Purpose of revision

Drawn

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IRISH WATER

Project

Water Supply Project - Eastern and Midlands Region

Drawing Title

Identification of Preliminary 200m Pipeline Corridor : 125 to 130 km

Drawing Status

For Issue

Scale @A3

1:19,000

DO NOT SCALE

Jacobs No.

32105801

Client No.

WSP1

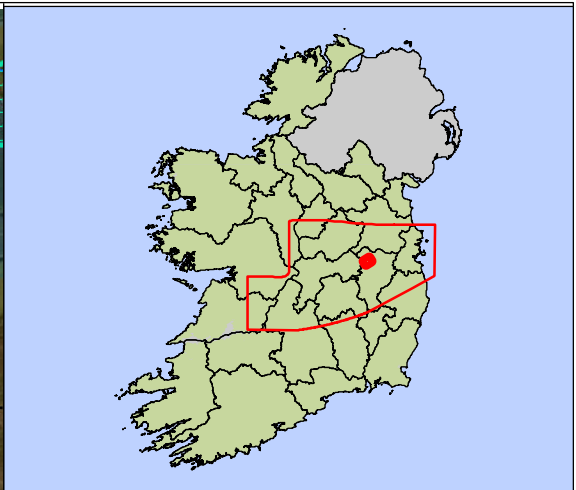
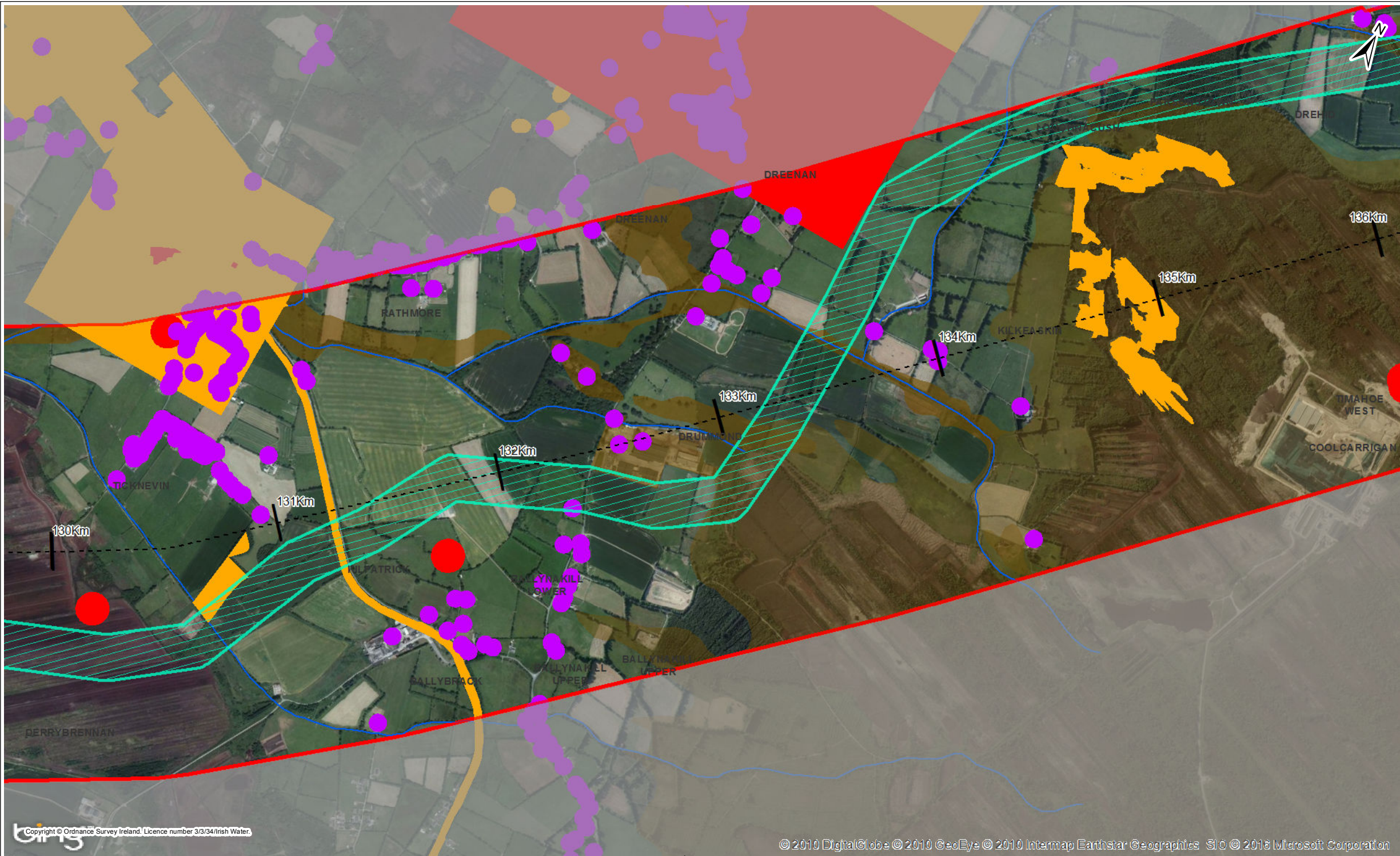
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Drawing No.

32105801-FOAR-026

This drawing is not to be used in whole in or part other than for the intended purpose and project as defined on this drawing. Refer to the contract for full terms and conditions.



Key

Centreline of Least Constrained Route Corridor

Preliminary 200m Pipeline Corridor

Least Constrained Route Corridor
(Generally 2km)

Environmental Constraints

Primary Constraints

Secondary Constraints

Rivers WFD

Technical Constraints

Property Location - Including a 40m Buffer

Poor Ground

Notes :-
Mapping Contains Initial Routing of a Preliminary 200m Pipeline Corridor. This Was Subject to a Detailed Assessment and Revision. The Current Alignment is Shown on Maps 32105801-FOAR-036 to 070

Chainage	130 to 131 km	131 to 132 km	132 to 133 km	133 to 134 km	134 to 135 km
Initial Desktop Assessment of Constraints in Least Constrained Route Corridor (Generally 2km) To Inform Identification of Preliminary 200m Pipeline Corridor	- Properties - National Monuments - Poor ground (alluvium) - River abbeylough - Forestry	- Properties - National Monuments - Poor ground (alluvium) - Poor ground (glaciofluvial sands and gravels) - Proposed natural heritage area - SMR Zone (Archaeology) - Landscape Classification Areas - Kildare High - Grand canal - River figile - River abbeylough - River Kilkeaskin	- Properties - Made ground - Poor ground (glaciofluvial sands and gravels) - Poor ground (lake deposits) - Landscapes - River figile - River kilkeaskin - R403 regional road - Bog remnant - Designed landscape (demesne)	- Properties - Poor ground (bogs) - Poor ground (alluvium) - Poor ground (glaciofluvial sands and gravels) - Poor ground (lake deposits) - River parsonstown - Rive figile - River kilkeaskin	- Properties - Poor ground (alluvium) - Poor ground (glaciofluvial sands and gravels) - Woodland habitats - Forestry - River parsonstown - River figile - IPPC site - Designed landscape (demesne)

1

02/11/2016

For Issue

PW

CK

DS

MG

Rev.

Date

Purpose of revision

Drawn

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Rev'd

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Client

UISCE

IRISH WATER

Project

Water Supply Project - Eastern and Midlands Region

Drawing Title

Identification of Preliminary 200m Pipeline Corridor : 130 to 135 km

Drawing Status

For Issue

Scale @A3

1:19,000

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Jacobs No.

32105801

Client No.

WSP1

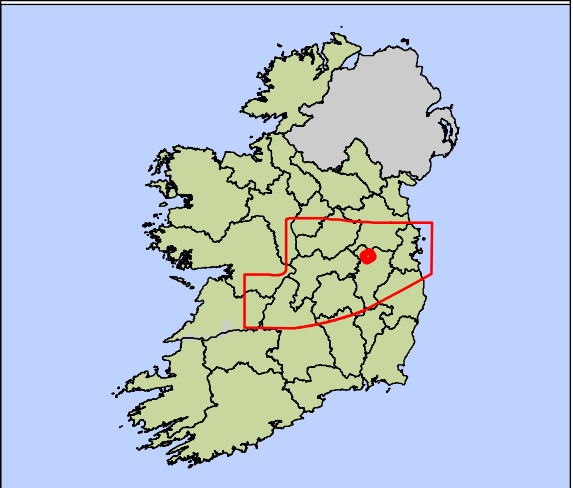
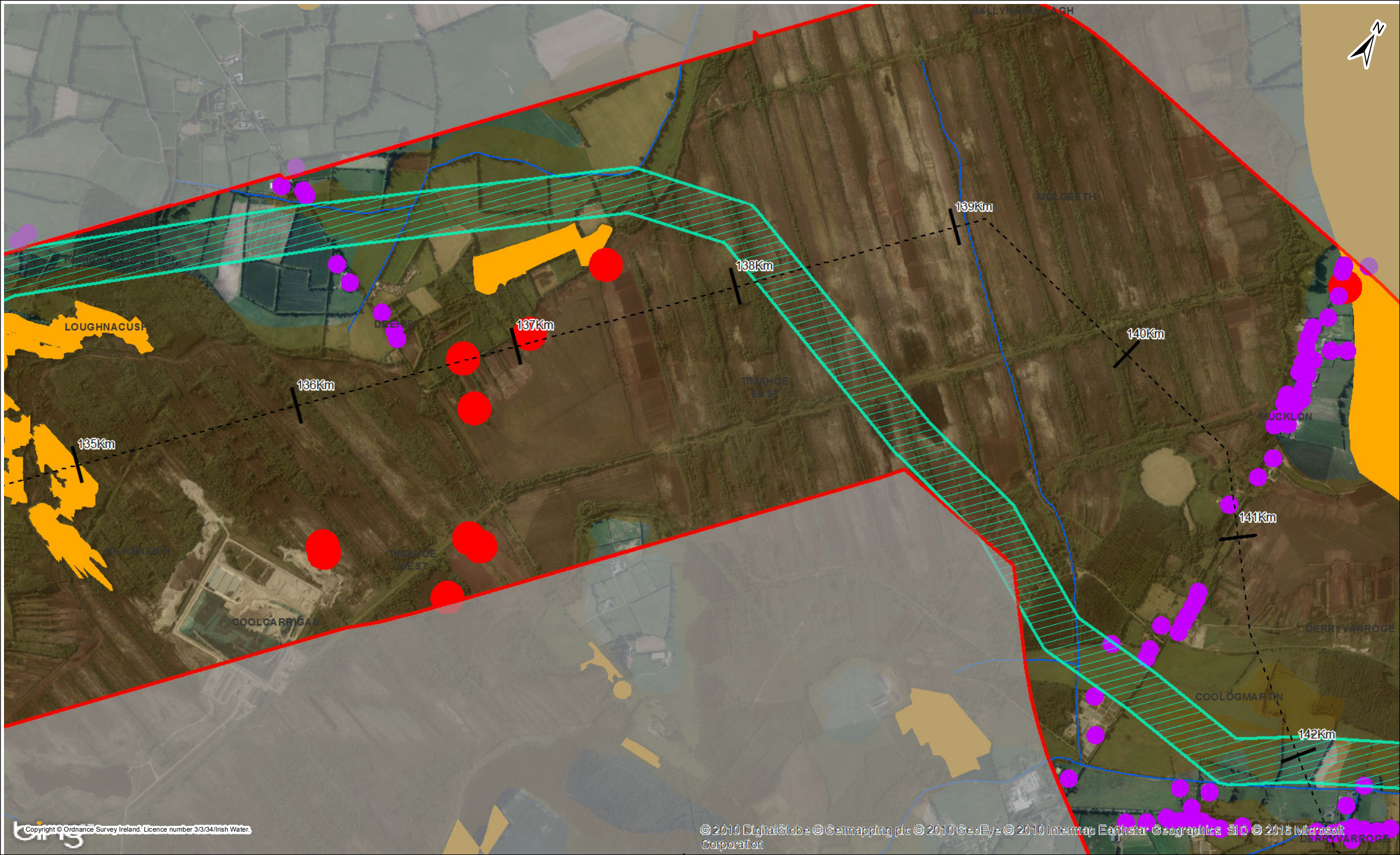
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Drawing No.

32105801-FOAR-027

This drawing is not to be used in whole in or part other than for the intended purpose and project as defined on this drawing. Refer to the contract for full terms and conditions.



Key

Centreline of Least Constrained Route Corridor

Preliminary 200m Pipeline Corridor

Least Constrained Route Corridor
(Generally 2km)

Environmental Constraints

Primary Constraints

Secondary Constraints

Rivers WFD

Technical Constraints

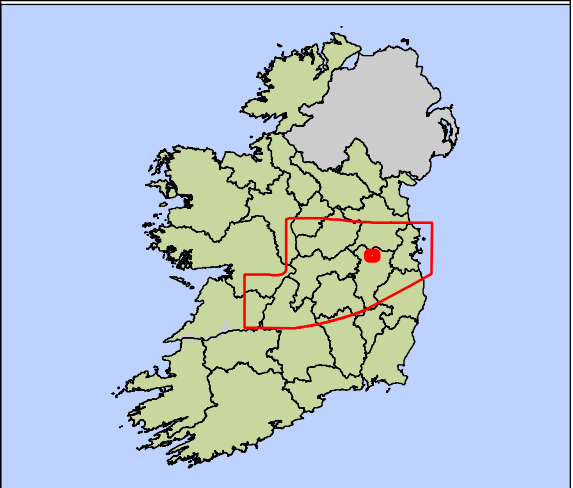
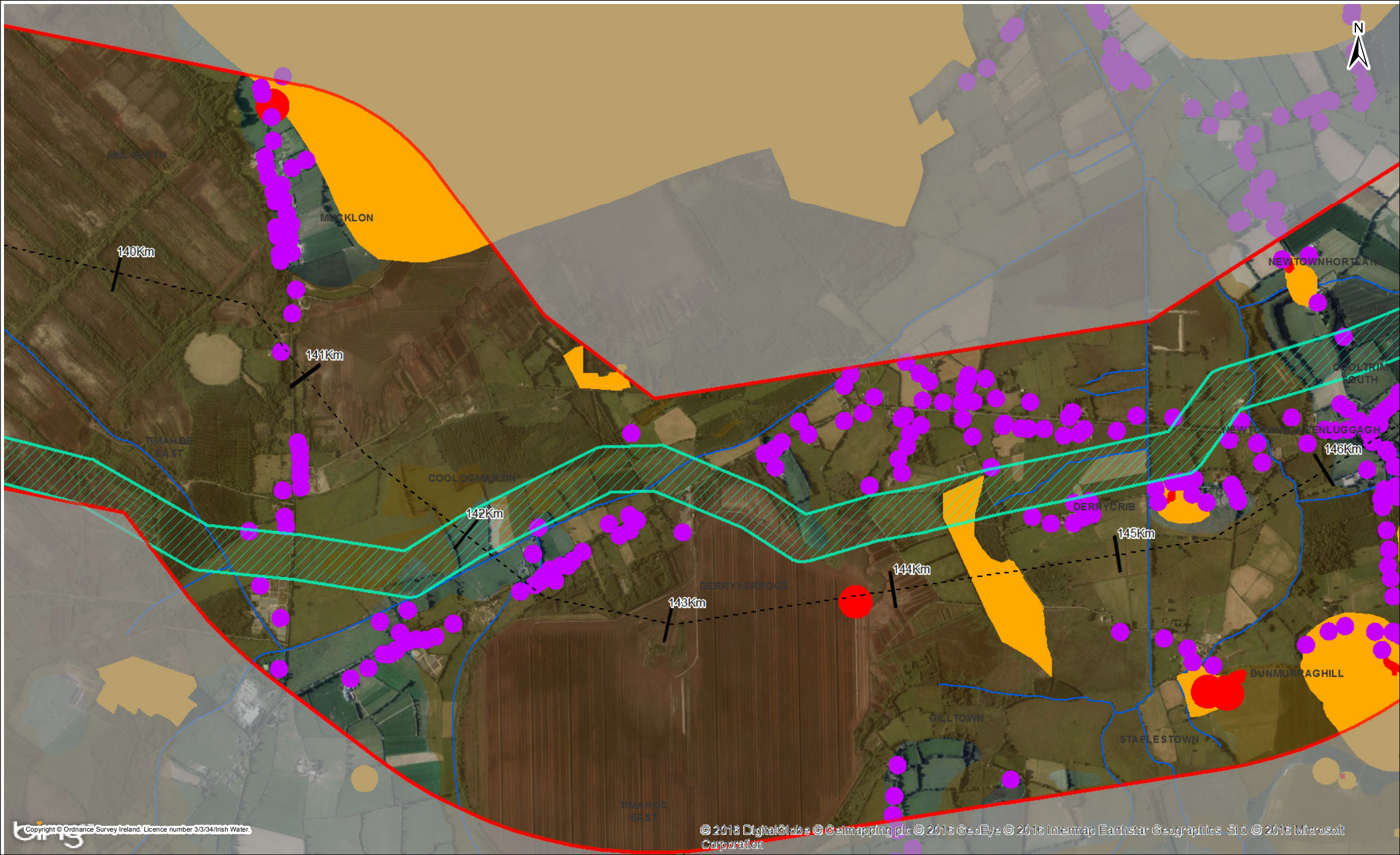
Property Location - Including a 40m Buffer

Poor Ground

Notes :-
Mapping Contains Initial Routing of a Preliminary 200m Pipeline Corridor. This Was Subject to a Detailed Assessment and Revision. The Current Alignment is Shown on Maps 32105801-FOAR-036 to 070

1	02/11/2016	For Issue	PW	CK	DS	MG
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	App'd
JACOBS TOBIN Patrick J. Tobin & Co. Ltd.						
Client 						
Project Water Supply Project - Eastern and Midlands Region						
Drawing Title Identification of Preliminary 200m Pipeline Corridor : 135 to 140 km						
Drawing Status For Issue						
Scale @A3	1:19,000				DO NOT SCALE	
Jacobs No.	32105801		Client No.	WSP1		
Filepath	G:\J0105801-FOAR-028\GIS\Task5_Study\Report\Maps\FOAR\Constraints\Map\Identification of Preliminary Pipeline Corridor 135-140.mxd					
Drawing No. 32105801-FOAR-028						
This drawing is not to be used in whole in or part other than for the intended purpose and project as defined on this drawing. Refer to the contract for full terms and conditions.						

Chainage	135 to 136 km	136 to 137 km	137 to 138 km	138 to 139 km	139 to 140 km
Initial Desktop Assessment of Constraints in Least Constrained Route Corridor (Generally 2km) To Inform Identification of Preliminary 200m Pipeline Corridor	- Poor ground (bogs) - Woodland habitats - Drehid Waste Management Facility - Bog remnant	Properties - Poor ground (bogs) - National Monuments - Ballynamullagh - Bog remnant	- Poor ground (bogs) - National Monuments - Woodland habitats - Native woodland survey - River ballynamullagh - Bog remnant	- Poor ground (bogs) - River mulgeeth - Bog remnant	- Poor ground (bogs) - River mulgeeth - Bog remnant



Key

Centreline of Least Constrained Route Corridor

Preliminary 200m Pipeline Corridor

Least Constrained Route Corridor (Generally 2km)

Environmental Constraints

Primary Constraints

Secondary Constraints

Rivers WFD

Technical Constraints

Property Location - Including a 40m Buffer

Poor Ground

Notes :-
Mapping Contains Initial Routing of a Preliminary 200m Pipeline Corridor. This Was Subject to a Detailed Assessment and Revision. The Current Alignment is Shown on Maps 32105801-FOAR-036 to 070

1	02/11/2016	For Issue	PW	CK	DS	MG
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd

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Client

**UISCE**
Uisce Éireann - Irish Water

Project

Water Supply Project - Eastern and Midlands Region

Drawing Title

Identification of Preliminary 200m Pipeline Corridor : 140 to 145 km

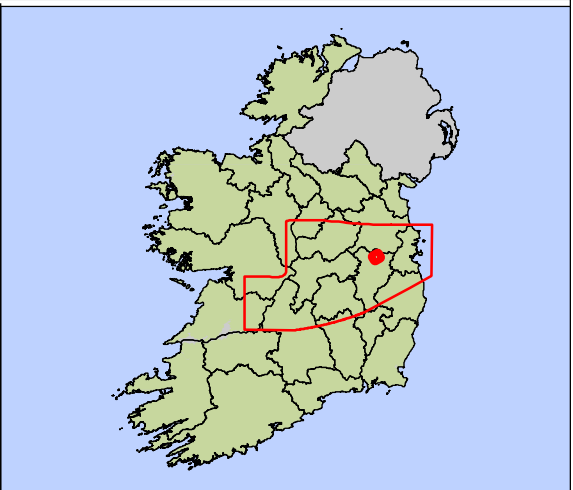
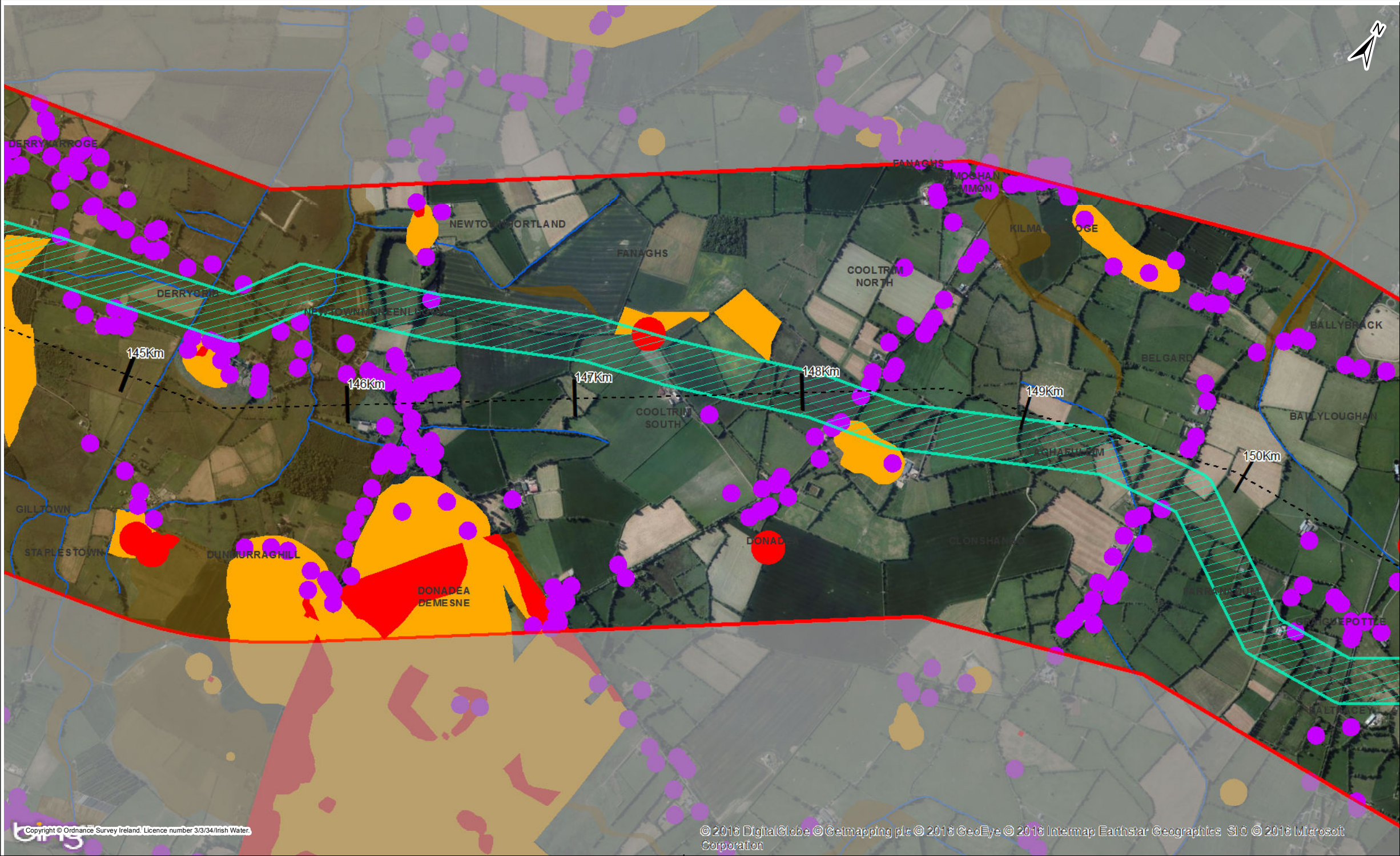
Drawing Status

For Issue

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Drawing No.	32105801-FOAR-029		

This drawing is not to be used in whole in or part other than for the intended purpose and project as defined on this drawing. Refer to the contract for full terms and conditions.

Chainage	140 to 141 km	141 to 142 km	142 to 143 km	143 to 144 km	144 to 145 km
Initial Desktop Assessment of Constraints in Least Constrained Route Corridor (Generally 2km) To Inform Identification of Preliminary 200m Pipeline Corridor	- Properties - National Monuments - Forestry - Coillte forest property (hortland) - Source protection area - Poor ground (bogs) - Bog remnant	- Properties - Forestry - Coillte forest property (hortland) - Source protection areas - Poor g round (bogs) - Poor ground (glaciofluvial sands and gravels) - Bog remnant	- Properties - Forestry - Coillte forest property (hortland) - Poor ground (bogs) - River mulgeeth - Bog remnant	- Properties - National Monuments - Forestry - Coillte forest property (hortland) - Poor ground (bogs) - River mulgeeth - Bog remnant	- Properties - Forestry - Coillte forest property (hortland) - Poor ground (bogs) - River dunmurraghill - River derryvarroge - River newtown moneenluggagh - River gilltown



Key

Centreline of Least Constrained Route Corridor

Preliminary 200m Pipeline Corridor

Least Constrained Route Corridor (Generally 2km)

Environmental Constraints

Primary Constraints

Secondary Constraints

Rivers WFD

Technical Constraints

Property Location - Including a 40m Buffer

Poor Ground

Notes :-
Mapping Contains Initial Routing of a Preliminary 200m Pipeline Corridor. This Was Subject to a Detailed Assessment and Revision. The Current Alignment is Shown on Maps 32105801-FOAR-036 to 070

Chainage	145 to 146 km	146 to 147 km	147 to 148 km	148 to 149 km	149 to 150 km
Initial Desktop Assessment of Constraints in Least Constrained Route Corridor (Generally 2km) To Inform Identification of Preliminary 200m Pipeline Corridor	- Properties - Pts and quarries - Forestry - SMR Zone (Archaeology) - Geological features (St. Peter's well) - Groundwater Vulnerability Rock at or Near Surface or Karst feature - Groundwater Vulnerability Extreme - Poor ground (bogs) - Poor ground (exposed rock and karst) - Poor ground (glacial sands and gravels) - River derryvarroge - River derryrb - River blackwater - River cooltrimouth	Properties National Monuments Ancient woodland (donadea forest park) Proposed natural heritage area (donadea wood) Woodland habitats Forestry SMR Zone (Archaeology) Coleford property (donadea) Native woodland survey Groundwater Vulnerability Rock at or Near Surface or Karst feature Groundwater Vulnerability Extreme Poor ground (exposed rock and karst) Poor ground (alluvium) Poor ground (glacial sands and gravels) Poor ground (lake deposits) River newtownhorland River cooltrimouth Designed landscape (demesne)	Properties National Monuments Forestry SMR Zone (Archaeology) Coleford property (donadea) Poor ground (alluvium)	Properties SMR Zone (Archaeology) Groundwater Vulnerability Extreme Poor ground (alluvium)	Properties Groundwater Vulnerability Extreme Poor ground (alluvium) River aghafuim River batracrybreen

1	02/11/2016	For Issue	PW	CK	DS	MG
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	App'd

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Client

UISCE
Clean Water

Project

Water Supply Project - Eastern and Midlands Region

Drawing Title

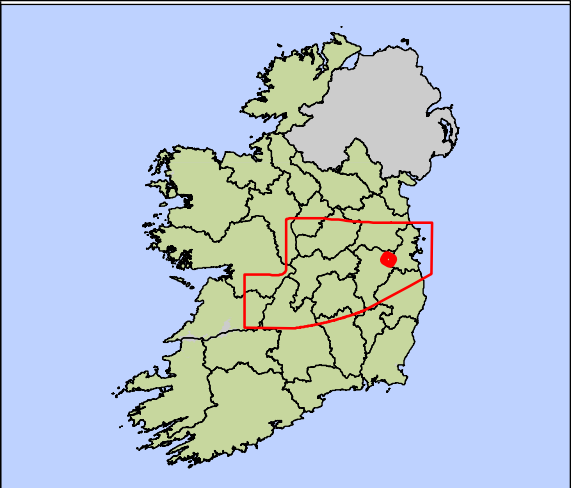
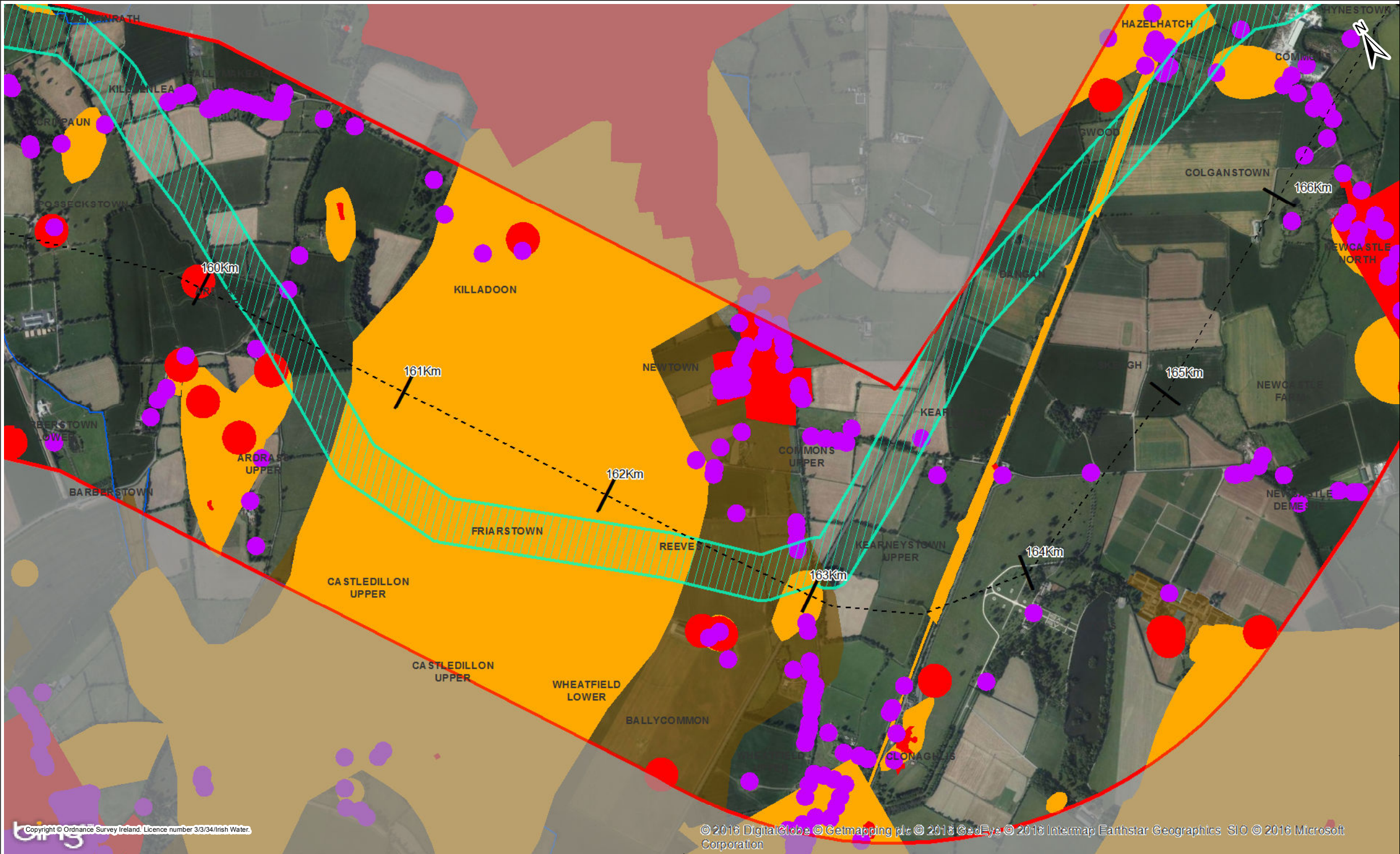
Identification of Preliminary 200m Pipeline Corridor : 145 to 150 km

Drawing Status

For Issue

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Filepath	G:\032105801-WSP-DRG\Task5_Study\Report\Maps\FOAR\Constraints\Map\Identification of Preliminary Pipeline Corridor 145-150.mxd		
Drawing No.	32105801-FOAR-030		

This drawing is not to be used in whole in or part other than for the intended purpose and project as defined on this drawing. Refer to the contract for full terms and conditions.



Key

Centreline of Least Constrained Route Corridor

Preliminary 200m Pipeline Corridor

Least Constrained Route Corridor (Generally 2km)

Environmental Constraints

Primary Constraints

Secondary Constraints

Rivers WFD

Technical Constraints

Property Location - Including a 40m Buffer

Poor Ground

Notes :-
Mapping Contains Initial Routing of a Preliminary 200m Pipeline Corridor. This Was Subject to a Detailed Assessment and Revision. The Current Alignment is Shown on Maps 32105801-FOAR-036 to 070

Chainage	160 to 161 km	161 to 162 km	162 to 163 km	163 to 164 km	164 to 165 km
Initial Desktop Assessment of Constraints in Least Constrained Route Corridor (Generally 2km) To Inform Identification of Preliminary 200m Pipeline Corridor	- Properties - National Monuments - Pits and quarries - Forestry - SMR Zone (Archaeology) - Landscape Classification Areas (Kilare High) - Geobcalher tage ste (ffey oxbow) - Geobcalher tage ste (St. Patrick's well2) - Groundwater Vulnerability Rock at or Near Surface or Karst feature - Groundwater Vulnerability Extrême - Poor ground (exposed rock and karst) - Poor ground (alluvium) - Landscapes - Riverposseckstown - River ardrassbwer - River ffey - R403 regional road	Properties National Monuments Settlements Forestry SMR Zone (Archaeology) Landscape Classification Areas (Kilare High) Groundwater Vulnerability Rock at or Near Surface or Karst feature Groundwater Vulnerability Extrême Poor ground (bogs) Poor ground (exposed rock and karst) Poor ground (glacifluvialsands and gravels) Poor ground (alluvium) River ffey River friarstown River ballymakealy River kldoon Designed landscape (demesne)	Properties Settlements SMR Zone (Archaeology) Landscape Classification Areas (Kilare High) Groundwater Vulnerability Rock at or Near Surface or Karst feature Groundwater Vulnerability Extrême Poor ground (exposed rock and karst) Poor ground (alluvium) Poor ground (glacifluvialsands and gravels) Landscapes River reeves River castedbn River ffey River simonstown National althe Designed landscape (demesne)	Properties Pits and quarries Proposed natural heritage area (gr and canal) Forestry SMR Zone (Archaeology) Landscape Classification Areas (Kilare High) Groundwater Vulnerability Rock at or Near Surface or Karst feature Groundwater Vulnerability Extrême Mine allocations Poor ground (exposed rock and karst) Poor ground (glacifluvialsands and gravels) Landscapes Lakes Natural althe Designed landscape (demesne)	Properties Proposed natural heritage area (gr and canal) Lakes Forestry SMR Zone (Archaeology) Landscape Classification Areas (Kilare High) Groundwater Vulnerability Rock at or Near Surface or Karst feature Groundwater Vulnerability Extrême Made ground Poor ground (exposed rock and karst) Poor ground (glacifluvialsands and gravels) Gr and canal

102/11/2016For IssuePWCKDSMG

Rev.DatePurpose of revisionDrawnCheck'dRev'dApp'd

JACOBS

TOBIN

Patrick J. Tobin & Co. Ltd.

Client

UISCE

Uisce Éireann - Irish Water

Project

Water Supply Project - Eastern and Midlands Region

Drawing Title

Identification of Preliminary 200m Pipeline Corridor : 160 to 165 km

Drawing Status

For Issue

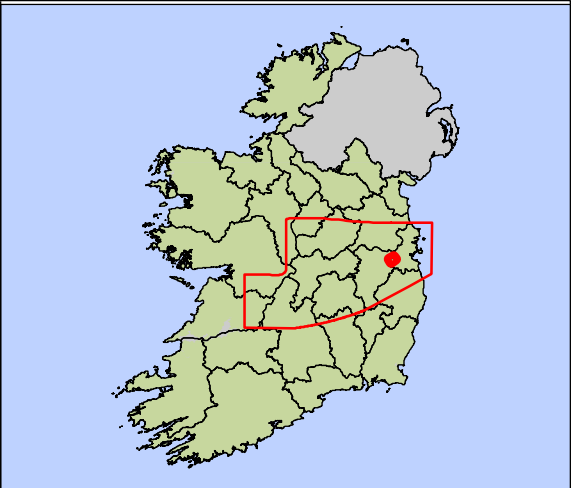
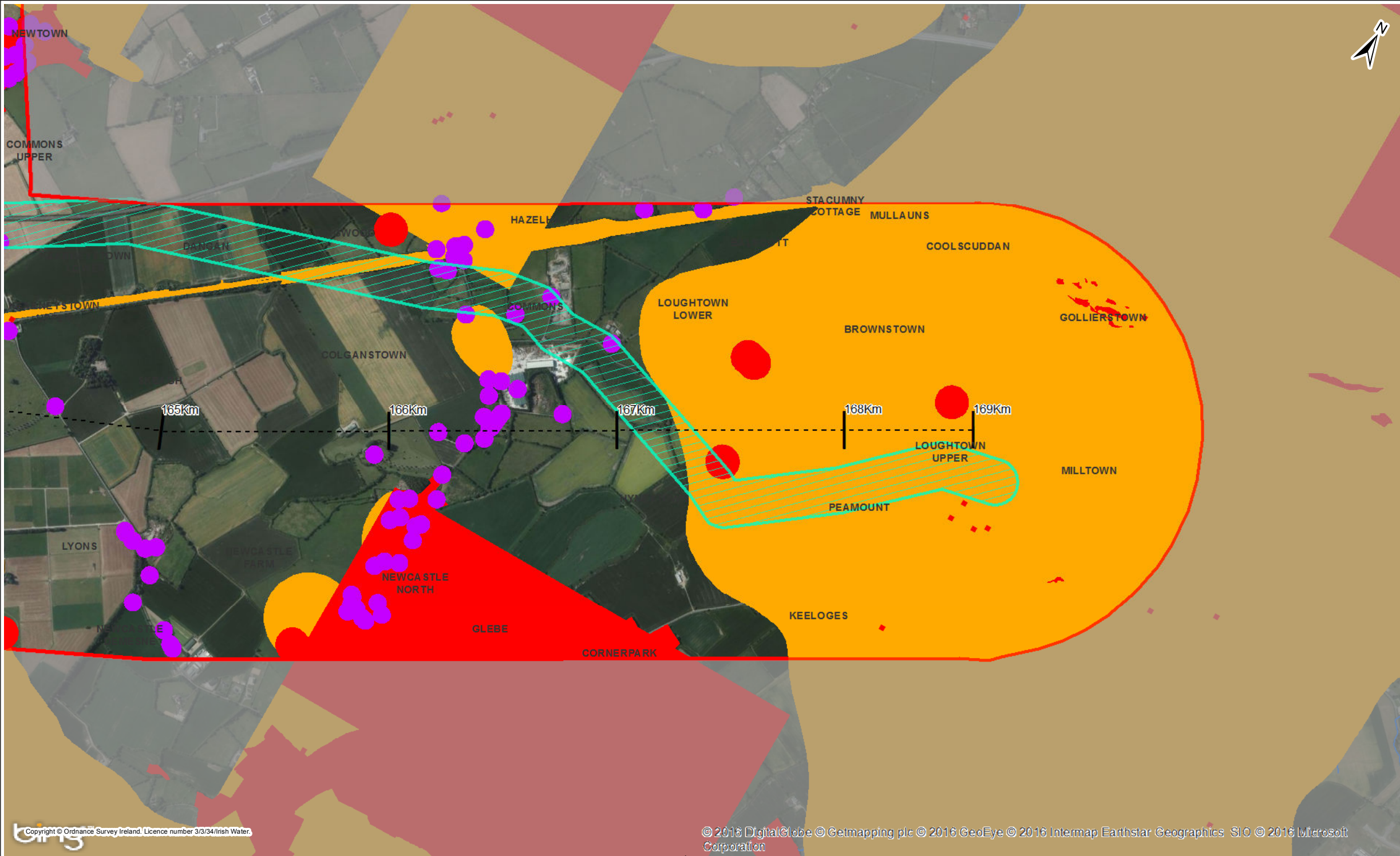
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Jacobs No.32105801Client No.WSP1

FilepathG:\01032105801-WSP-DR-GIS\Task5_Study\Report\Maps\FOAR\Constraints\Map\Identification of Preliminary Pipeline Corridor 160-165.mxd

Drawing No.32105801-FOAR-033

This drawing is not to be used in whole or in part other than for the intended purpose and project as defined on this drawing. Refer to the contract for full terms and conditions.



Key

Centreline of Least Constrained Route Corridor

Preliminary 200m Pipeline Corridor

Least Constrained Route Corridor
(Generally 2km)

Environmental Constraints

Primary Constraints

Secondary Constraints

Rivers WFD

Technical Constraints

Property Location - Including a 40m Buffer

Poor Ground

Notes :-
Mapping Contains Initial Routing of a Preliminary 200m Pipeline Corridor. This Was Subject to a Detailed Assessment and Revision. The Current Alignment is Shown on Maps 32105801-FOAR-036 to 070

Chainage	165 to 166 km	166 to 167 km	167 to 168 km	168 to 169 km	169 to 170 km
Initial Desktop Assessment of Constraints in Least Constrained Route Corridor (Generally 2km) To Inform Identification of Preliminary 200m Pipeline Corridor	- Properties - National Monuments - Proposed natural heritage area (grand canal) - SMR Zone (Archaeology) - Landscape Classification Areas Kildare High - Geological heritage site (newcastle) - Grand canal	- Properties - Settlements - Pits and quarries - Proposed natural heritage area (grand canal) - SMR Zone (Archaeology) - Groundwater Vulnerabilty Rock at or Near Surface or Karst feature - Groundwater Vulnerabilty Extreme - Poor ground (exposed rock and karst) - Grand canal - R405 regional road	- Properties - Settlements - Proposed natural heritage area (grand canal) - SMR Zone (Archaeology) - Groundwater Vulnerabilty Rock at or Near Surface or Karst feature - Groundwater Vulnerabilty Extreme - Poor ground (exposed rock and karst)	- National Monuments - Proposed natural heritage area (grand canal) - Forestry - Groundwater Vulnerabilty Rock at or Near Surface or Karst feature - Groundwater Vulnerabilty Extreme - Poor ground (exposed rock and karst) - Designed landscape (demesne) - Grand canal	

1	02/11/2016	For Issue	PW	CK	DS	MG
Rev.	Date	Purpose of revision	Drawn	Check'd	Rev'd	Appr'd

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Patrick J. Tobin & Co. Ltd.

Client



UISCE
DREAMS - RISE - WATER

Project

Water Supply Project - Eastern and Midlands Region

Drawing Title

Identification of Preliminary 200m Pipeline Corridor :
165 to 170 km

Drawing Status

For Issue

Scale @A3	1:19,000	DO NOT SCALE	
Jacobs No.	32105801	Client No.	WSP1
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Drawing No. 32105801-FOAR-034			

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